| ID | Gene          | Log fold change | Edit distance frameshift exon | Edit distance 5' UTR | Edit distance 3' UTR | Edit distance full gene |
|----|---------------|----------------|-------------------------------|---------------------|---------------------|------------------------|
| 3  | ENSG00000006327.13 | -1.836417353   | NA                            | background           | background           | background              |
| 3  | ENSG00000006747.14 | 1.214436848    | 5                             | background           | 5                    | 5                      |
| 3  | ENSG00000007516.13 | 1.312960925    | 5                             | background           | 5                    | 5                      |
| 3  | ENSG00000010282.14 | 4.947962056    | background                     | background           | background           | 4                      |
| 3  | ENSG00000010671.15 | 1.4412656      | background                     | background           | background           | 5                      |
| 3  | ENSG00000011021.21 | 1.403143604    | 5                             | background           | 5                    | 5                      |
| 3  | ENSG00000012779.10 | 2.299840727    | background                     | background           | background           | 4                      |
| 3  | ENSG00000015520.14 | 1.459813524    | 5                             | background           | 5                    | 4                      |
| 3  | ENSG00000019582.14 | 2.632387669    | 5                             | background           | 5                    | 4                      |
| 3  | ENSG00000026025.15 | -1.022324709   | background                     | background           | background           | 4                      |
| 3  | ENSG00000028777.21 | 1.402602616    | background                     | 5                    | 4                    | 4                      |
| 3  | ENSG00000042493.15 | -1.006104485   | background                     | 5                    | 4                    | 4                      |
| 3  | ENSG00000047644.18 | 1.568473509    | 5                             | background           | background           | 4                      |
| 3  | ENSG00000050555.17 | 1.316353693    | 5                             | background           | 5                    | 4                      |
| 3  | ENSG00000055118.14 | 1.316188486    | 4                             | background           | background           | 4                      |
| 3  | ENSG00000057657.15 | 1.883064711    | 5                             | background           | 5                    | 4                      |
| 3  | ENSG00000063176.15 | 1.012873105    | background                     | background           | background           | background              |
| 3  | ENSG00000064300.8  | 1.336083435    | background                     | 5                    | 5                    | 4                      |
| 3  | ENSG00000064666.14 | 1.250895397    | background                     | 5                    | 4                    | 4                      |
| 3  | ENSG00000064886.13 | 2.206691248    | 5                             | background           | 5                    | 4                      |
| 3  | ENSG00000065361.14 | 1.588152438    | 5                             | background           | 5                    | 4                      |
| 3  | ENSG00000065621.14 | -1.306142854   | 4                             | 4                    | background           | 4                      |
| 3  | ENSG00000065717.14 | 1.409551349    | background                     | 5                    | 4                    | 4                      |
| 3  | ENSG00000067842.17 | 2.57648632    | 5                             | background           | 5                    | 4                      |
| 3  | ENSG00000068831.18 | 1.283568063    | background                     | 5                    | 4                    | 4                      |
| 3  | ENSG00000068976.13 | 2.076671926    | 5                             | background           | 5                    | 4                      |
| 3  | ENSG00000071481.8  | 1.606434506    | 5                             | background           | 4                    | 4                      |
| 3  | ENSG00000075223.13 | -1.544024055   | 5                             | background           | 5                    | 4                      |
| 3  | ENSG00000078795.16 | 1.542115191    | background                     | 5                    | 4                    | 4                      |
| 3  | ENSG00000081248.10 | 4.604795146    | 5                             | background           | 4                    | 4                      |
| 3  | ENSG00000084110.10 | 1.039016715    | 5                             | background           | 5                    | 4                      |
| 3  | ENSG00000084628.9  | 1.085181999    | background                     | 5                    | 4                    | 4                      |
| 3  | ENSG00000085465.12 | 1.1870278      | background                     | 5                    | 4                    | 4                      |
| 3  | ENSG00000085514.15 | 1.163764264    | background                     | 4                    | 5                    | 4                      |
| 3  | ENSG00000087245.12 | 2.423404649    | 4                             | 5                    | 4                    | 4                      |
| 3  | ENSG00000087589.16 | 1.446943733    | background                     | background           | background           | 4                      |
| Genomic ID      | Value 1     | Description 1 | Value 2 | Description 2 | Value 3 | Description 3 | Value 4 | Description 4 |
|----------------|-------------|---------------|---------|---------------|---------|---------------|---------|---------------|
| ENSG00000088827.12 | 4.485545441 | background    | NA      | background    | NA      | background    | 4       |               |
| ENSG00000088992.17 | 1.458288753 | background    | NA      | background    | 5       | background    | 5       |               |
| ENSG00000089163.4  | 1.26009664  | background    | NA      | background    | 5       | background    | 5       |               |
| ENSG000000895713.13 | 2.0622074   | background    | background | background | 4       |               |         |               |
| ENSG00000099365.10 | 2.213593794 | background    | background | background | 4       |               |         |               |
| ENSG00000099625.12 | 1.162526784 | background    | background | background | 4       |               |         |               |
| ENSG00000099822.2  | 1.625411388 | background    | background | background | 5       |               |         |               |
| ENSG00000100285.9  | 1.985038298 | background    | background | background | 5       |               |         |               |
| ENSG00000100290.2  | 1.898602289 | background    | background | background | 5       |               |         |               |
| ENSG00000101162.3  | 1.64316134  | background    | background | background | 5       |               |         |               |
| ENSG00000101180.15 | 2.216478054 | background    | background | background | 4       |               |         |               |
| ENSG00000101210.10 | 1.01522875  | background    | background | background | 5       |               |         |               |
| ENSG00000101210.10 | 1.01522875  | background    | background | background | 5       |               |         |               |
| ENSG00000101306.10 | 2.080877668 | background    | background | background | 5       |               |         |               |
| ENSG00000101384.11 | 1.25304534  | background    | background | background | 5       |               |         |               |
| ENSG00000101938.14 | 1.104421864 | background    | background | background | 4       |               |         |               |
| ENSG00000102057.9  | 1.012856822 | background    | background | background | 5       |               |         |               |
| ENSG00000102128.8  | 1.524733215 | NA            | background | background | 5       |               |         |               |
| ENSG00000102195.9  | 2.033051485 | NA            | background | background | 4       |               |         |               |
| ENSG00000102287.18 | 4.22611205  | 5             | background | background | 5       |               |         |               |
| ENSG00000102924.11 | 1.675741083 | NA            | background | background | 5       |               |         |               |
| ENSG00000103534.16 | 1.898602289 | background    | background | background | 4       |               |         |               |
| ENSG00000103740.9  | 1.413034903 | background    | background | background | 4       |               |         |               |
| ENSG00000104368.17 | 1.079872555 | 5             | background | background | 4       |               |         |               |
| ENSG00000104783.11 | 4.417878739 | background    | background | background | 4       |               |         |               |
| ENSG00000104879.4  | 2.760213819 | 5             | background | background | 5       |               |         |               |
| ENSG00000104883.7  | -1.181007677| background    | background | background | 5       |               |         |               |
| ENSG00000104888.9  | 1.336509634 | background    | background | background | 5       |               |         |               |
| ENSG00000104967.6  | 1.707061879 | 5             | background | background | 5       |               |         |               |
| ENSG00000105088.8  | 1.023998711 | background    | background | background | 3       |               |         |               |
| ENSG00000105219.8  | 3.020268703 | NA            | background | background | 5       |               |         |               |
| ENSG00000105227.14 | 1.469244899 | background    | background | background | 5       |               |         |               |
| ENSG00000105327.17 | 1.431786289 | background    | background | background | 5       |               |         |               |
| Gene ID   | Value       | Background 1 | Background 2 | Background 3 | Background 4 |
|----------|-------------|--------------|--------------|--------------|--------------|
| ENSG00000105329.9 | 1.391397875 | background   | background   | background   | 5            |
| ENSG00000105339.10 | 1.065742105 | background   | background   | background   | 5            |
| ENSG00000105641.3  | 1.24305857  | background   | background   | 4            | 4            |
| ENSG00000105664.10 | 1.30394072  | background   | background   | background   | 4            |
| ENSG00000105967.15 | 2.794922037 | background   | background   | background   | 4            |
| ENSG00000106018.13 | 3.476292724 | background   | background   | 5            | 4            |
| ENSG00000105967.15 | 1.707426707 | background   | 5            | background   | 5            |
| ENSG00000106991.13 | 1.594157223 | 5            | background   | background   | 4            |
| ENSG00000107147.12 | 1.221213409 | 5            | background   | background   | 4            |
| ENSG00000107562.16 | 1.03630813  | background   | background   | background   | 5            |
| ENSG00000107742.12 | 1.33638642  | 5            | background   | 5            | 4            |
| ENSG00000107984.9  | 1.089900897 | background   | background   | background   | background   |
| ENSG00000108352.11 | 1.01684702  | background   | NA           | background   | 5            |
| ENSG00000108551.4  | 1.93469735  | NA           | 5            | background   | 5            |
| ENSG00000109063.14 | 1.021714321 | 5            | background   | background   | 5            |
| ENSG00000109339.20 | 1.174343512 | background   | 4            | background   | 4            |
| ENSG00000109680.10 | -1.04869712 | background   | background   | background   | 4            |
| ENSG00000109832.13 | 1.272690476 | 5            | background   | 4            | 4            |
| ENSG00000110446.10 | 3.576282575 | background   | background   | background   | 5            |
| ENSG00000111199.10 | 1.759517159 | background   | background   | background   | 4            |
| ENSG00000111344.11 | 2.493064565 | background   | background   | background   | 5            |
| ENSG00000111432.4  | 1.311252894 | NA           | background   | 5            | 5            |
| ENSG00000112539.14 | 2.040701215 | background   | background   | background   | 5            |
| ENSG00000112773.15 | 1.439662106 | background   | background   | 5            | 4            |
| ENSG00000112818.9  | 3.486058846 | 5            | background   | background   | 5            |
| ENSG00000113721.13 | 3.109240596 | 5            | background   | background   | 5            |
| ENSG00000115194.10 | 1.295448854 | 5            | background   | 5            | 5            |
| ENSG00000115474.6  | 3.047967999 | background   | background   | background   | 5            |
| ENSG00000115828.15 | -1.126052343 | background | 5            | background   | 5            |
| ENSG00000116147.16 | 1.784448421 | 4            | 5            | background   | 3            |
| ENSG00000116194.12 | 2.501222531 | background   | background   | background   | 5            |
| ENSG00000116254.17 | 1.632413534 | 5            | background   | background   | 4            |
| ENSG00000116329.10 | 1.31891095  | background   | background   | 5            | 5            |
| ENSG00000117707.15 | 1.514575871 | background   | background   | 4            | 4            |
| ENSG00000117707.15 | 1.514575871 | NA           | background   | 4            | 4            |
| ENSG00000118004.17 | 2.776515278 | NA           | background   | background   | 4            |
| ENSG00000118298.10 | 1.501223971 | background   | background   | background   | background   |
| ENSG00000118729.11 | 2.42816592  | background   | background   | 5            | 4            |
| ENSG00000118898.15 | 2.692171927 | 5            | background   | 4            | 4            |
| ENSG00000119013.8  | -1.003224184 | background   | background   | background   | background   |
| ENSG00000119630.13 | 1.502168536 | background   | background   | background   | 4            |
| Gene     | Value   | Annotation 1 | Annotation 2 | Annotation 3 | Annotation 4 | Annotation 5 | Annotation 6 |
|----------|---------|--------------|--------------|--------------|--------------|--------------|--------------|
| ENSG00000119681.11 | 1.13511775 | background | background | background | 4            |              |              |
| ENSG00000119714.10  | 2.15276352  | NA           | background | background | 5            | 5            |              |
| ENSG00000119737.5  | 1.118713403 | NA           | background | background | 5            |              |              |
| ENSG00000119888.10  | 1.843188922  | 5            | background | background | 5            |              |              |
| ENSG00000120875.8  | 1.340472955  | background | background | background | 5            | 4            |              |
| ENSG00000121022.13  | -1.073440588 | background | background | background | 5            |              |              |
| ENSG00000121101.15  | 1.051938195  | 4            | background | background | 4            |              |              |
| ENSG00000121753.12  | 1.318801237  | background | background | background | 4            |              |              |
| ENSG00000121966.6  | 1.26724426   | NA           | background | background | 5            |              |              |
| ENSG00000122641.10  | -1.427028223  | NA           | background | background | 5            |              |              |
| ENSG00000122877.15  | 2.259942793  | NA           | background | background | 4            |              |              |
| ENSG00000123901.8  | 1.462424536  | background | background | background | 5            | 5            |              |
| ENSG00000124092.12  | 1.522088553  | 5            | background | background | 4            |              |              |
| ENSG00000124216.3  | 1.923553888  | NA           | background | background | 4            | 4            |              |
| ENSG00000124635.8  | 1.83409861   | NA           | NA          | NA           | 5            |              |              |
| ENSG00000124772.11  | 2.00432116   | 4            | background | background | 3            |              |              |
| ENSG00000125285.5  | 1.754836044  | NA           | background | 5            |              |              |              |
| ENSG00000125337.16  | 1.284885319  | background | background | background | 5            |              |              |
| ENSG00000125848.9  | -1.00258918  | background | background | background | 5            |              |              |
| ENSG00000125931.10  | 1.522887107  | background | background | background | 5            |              |              |
| ENSG00000126460.10  | 2.742769634  | background | background | background | background |              |              |
| ENSG00000126759.13  | 1.1235025    | background | background | background | 3            |              |              |
| ENSG00000127152.17  | 1.456630263  | NA           | background | 5            | 4            |              |              |
| ENSG00000127507.17  | 1.320892608  | background | background | background | 4            |              |              |
| ENSG00000128242.12  | 2.562284174  | NA           | background | background | 4            |              |              |
| ENSG00000128342.4  | 2.820229868  | background | background | background | 5            |              |              |
| ENSG00000128510.10  | -2.100235638 | 5            | background | background | 4            |              |              |
| ENSG00000128564.6  | 1.589590669  | NA           | background | background | background |              |              |
| ENSG00000128573.24  | -1.011047641 | background | background | background | 4            |              |              |
| ENSG00000128594.7  | 1.173605324  | NA           | background | background | 5            |              |              |
| ENSG00000128655.17  | 1.318276903  | background | background | background | 4            |              |              |
| ENSG00000129048.6  | 1.741278793  | NA           | background | background | 4            |              |              |
| ENSG00000129248.4  | 1.325490978  | background | background | background | 4            |              |              |
| ENSG00000129514.5  | 1.131299494  | NA           | background | background | 5            |              |              |
| ENSG00000129757.12  | 1.738973251  | background | background | background | background |              |              |
| ENSG00000129951.18  | 2.807021478  | 5            | background | background | 5            |              |              |
| ENSG00000130203.9  | 2.350783384  | background | background | background | background |              |              |
| ENSG00000130222.10  | 3.508927385  | 5            | background | background | 5            |              |              |
| ENSG00000130234.10  | -1.11740354  | background | background | background | 3            |              |              |
| ENSG00000130270.16  | 1.40396907   | 5            | background | background | 4            |              |              |
| ENSG00000130477.15  | 1.167732893  | background | NA         | 5            | 5            |              |              |
| ENSG00000130513.6 | 2.448241812 | NA | background | background | 5 |
|-------------------|-------------|----|------------|------------|---|
| ENSG00000130540.13 | 1.32312451 | 5 | background | background | 4 |
| ENSG00000130561.16 | 1.47972999 | background | background | 5 | 4 |
| ENSG00000130783.13 | 1.680941883 | background | background | background | 5 |
| ENSG00000130822.15 | 1.117872389 | background | background | background | 5 |
| ENSG00000130844.16 | 1.141235997 | 5 | 5 | background | 5 |
| ENSG00000130876.11 | 2.718014667 | background | background | background | 4 |
| ENSG00000131061.13 | 1.810294598 | 5 | background | 5 | 4 |
| ENSG00000131080.14 | 1.380412334 | background | background | 5 | 4 |
| ENSG00000131398.13 | 1.297714846 | background | background | 5 | 4 |
| ENSG00000131471.6 | 1.306281248 | background | 5 | 5 | 5 |
| ENSG00000131864.10 | 5.078237527 | background | background | background | 5 |
| ENSG00000131914.10 | 2.508179356 | background | background | 5 | 5 |
| ENSG00000132000.11 | 2.927749552 | 5 | background | background | 3 |
| ENSG00000132205.10 | -1.080036921 | background | background | 5 | 4 |
| ENSG00000132423.11 | -1.083000972 | background | background | 5 | 4 |
| ENSG00000132535.18 | 1.168917584 | 5 | background | background | 5 |
| ENSG00000132938.19 | 1.670170333 | background | background | background | 4 |
| ENSG00000133200.11 | 1.048027907 | 5 | background | NA | 4 |
| ENSG00000134207.15 | 1.933646506 | 5 | background | background | 4 |
| ENSG00000134323.11 | 3.757848843 | background | background | background | 5 |
| ENSG00000134551.6 | 2.362459054 | NA | 5 | background | 5 |
| ENSG00000134595.8 | 4.453618645 | NA | background | background | 5 |
| ENSG00000134769.21 | -1.249798999 | background | 5 | background | 4 |
| ENSG00000134864.10 | -1.257107089 | 5 | 5 | background | 4 |
| ENSG00000135046.13 | -3.271458918 | background | background | background | 5 |
| ENSG00000135406.13 | 1.572394004 | background | 4 | 5 | 4 |
| ENSG00000135447.16 | 1.537328126 | background | background | background | background |
| ENSG00000135517.6 | 1.523228368 | NA | background | background | 5 |
| ENSG00000135519.6 | 2.038811603 | 5 | background | 5 | 5 |
| ENSG00000136098.16 | -1.075412111 | 4 | background | background | 4 |
| ENSG00000136099.13 | 1.861249872 | background | background | 5 | 5 |
| ENSG00000136161.12 | 1.496056442 | background | background | background | 4 |
| ENSG00000136383.6 | 1.344734405 | 4 | background | 4 | 3 |
| ENSG00000136842.13 | -1.136383797 | background | background | 5 | 4 |
| ENSG00000136872.17 | 2.833798031 | 4 | background | background | 4 |
| ENSG00000136931.9 | 2.568948926 | background | background | 5 | 3 |
| ENSG00000137331.11 | 1.338026301 | NA | background | background | background |
| ENSG00000137868.18 | 2.048365762 | background | background | background | 4 |
| ENSG00000137877.9 | 2.34332608 | 5 | background | background | 4 |
| ENSG00000137877.9 | 2.34332608 | 5 | background | background | 4 |
| Gene Symbol       | Log2 Fold Change | Background 1 | Background 2 | Background 3 | Background 4 |
|-------------------|------------------|--------------|--------------|--------------|--------------|
| ENSG00000138100.13 | 3.059832524      | background   | background   | background   | background   |
| ENSG00000138347.15 | 1.934630229      | background   | background   | background   | background   |
| ENSG00000138622.3  | 1.702303899      | background   | background   | background   | background   |
| ENSG00000138964.16 | 2.645376641      | background   | background   | background   | background   |
| ENSG00000139200.13 | 1.906387339      | background   | background   | background   | background   |
| ENSG00000139220.16 | -1.843706021     | background   | background   | background   | background   |
| ENSG00000139597.17 | 1.07661818       | background   | background   | background   | background   |
| ENSG00000139626.15 | 2.84616172       | background   | background   | background   | background   |
| ENSG00000139718.10 | 1.044533955      | background   | background   | background   | background   |
| ENSG00000140478.15 | 2.128625647      | background   | NA           | background   | background   |
| ENSG00000141574.7  | 1.768595522      | background   | background   | background   | background   |
| ENSG00000141579.6  | 4.196384198      | background   | background   | background   | background   |
| ENSG00000141738.13 | 2.21898184       | background   | background   | background   | background   |
| ENSG00000141753.6  | 1.02632199       | background   | background   | background   | background   |
| ENSG00000141934.9  | 2.33451194       | background   | background   | background   | background   |
| ENSG00000142185.16 | 3.865536654      | background   | background   | background   | background   |
| ENSG00000142235.8  | 1.074521001      | background   | background   | background   | background   |
| ENSG00000142513.5  | 1.036086757      | background   | background   | background   | background   |
| ENSG00000142627.12 | 1.022370877      | background   | background   | background   | background   |
| ENSG00000142661.18 | 1.41781613       | background   | background   | background   | background   |
| ENSG00000142677.3  | 3.765096403      | background   | background   | background   | background   |
| ENSG00000142798.17 | 1.065719835      | background   | background   | background   | background   |
| ENSG00000142871.16 | -1.305264422     | background   | background   | background   | background   |
| ENSG00000143217.8  | 1.049352526      | background   | background   | background   | background   |
| ENSG00000143333.6  | 1.739285689      | background   | background   | background   | background   |
| ENSG00000143341.11 | 1.121875107      | background   | background   | background   | background   |
| ENSG00000143341.11 | 1.121875107      | background   | background   | background   | background   |
| ENSG00000143502.14 | 2.487258617      | background   | background   | background   | background   |
| ENSG00000143590.13 | 1.524945522      | background   | background   | background   | background   |
| ENSG00000143632.14 | 1.567887142      | background   | background   | background   | background   |
| ENSG00000143858.11 | 1.553843041      | background   | background   | background   | background   |
| ENSG00000144550.12 | 2.333750256      | background   | background   | background   | background   |
| ENSG00000144596.12 | 1.038205182      | background   | background   | background   | background   |
| ENSG00000144821.9  | 1.194284475      | background   | background   | background   | background   |
| ENSG00000145244.11 | 1.02963004       | background   | NA           | background   | background   |
| ENSG00000145632.14 | 1.551278495      | background   | background   | background   | background   |
| ENSG    | Value     | Background | NA  | 5 |
|---------|-----------|------------|-----|---|
| ENSG00000146674.14 | 1.920200947 | background | background | 5 |
| ENSG00000147041.11 | -1.810650821 | 5 | background | 4 |
| ENSG00000147174.11 | 2.281509725 | 5 | background | 4 |
| ENSG00000147206.16 | 4.286840086 | 5 | background | 5 |
| ENSG00000147576.15 | 2.36392479 | background | background | 5 |
| ENSG00000148400.9 | 1.213645332 | background | background | 3 |
| ENSG00000148408.12 | 1.50857439 | 5 | background | 4 |
| ENSG00000148677.6 | -5.34117511 | NA | background | 5 |
| ENSG00000148735.14 | 2.287515767 | background | background | 5 |
| ENSG00000149577.15 | 1.41446854 | 4 | background | 4 |
| ENSG00000149591.16 | 1.184649322 | background | background | 4 |
| ENSG00000149781.12 | 1.64370475 | 5 | background | 5 |
| ENSG00000150687.11 | -1.524524044 | NA | background | 4 |
| ENSG00000151360.9 | 8.192406313 | 5 | background | 5 |
| ENSG00000151967.18 | -1.410349435 | background | background | 5 |
| ENSG00000152137.6 | -3.190867733 | 5 | background | 5 |
| ENSG00000152377.13 | 1.013255141 | background | background | 3 |
| ENSG00000152580.8 | 1.517179133 | 5 | NA | background | 5 |
| ENSG00000153495.10 | 3.406175089 | background | background | 4 |
| ENSG00000153714.5 | -3.256027925 | NA | background | 5 |
| ENSG00000154099.17 | 1.287805396 | 5 | background | 5 |
| ENSG00000154188.9 | -1.478999216 | background | background | 5 |
| ENSG00000155026.16 | 1.795613397 | background | background | 5 |
| ENSG00000156427.7 | 1.63615443 | background | background | 4 |
| ENSG00000156959.8 | 1.86852782 | background | background | 5 |
| ENSG00000157087.17 | 3.917815781 | background | 5 | background | 3 |
| ENSG00000157613.10 | 1.112517618 | background | background | 5 |
| ENSG00000157766.15 | 2.089705894 | background | background | 3 |
| ENSG00000158023.9 | 1.090343576 | 5 | 5 | background | 5 |
| ENSG00000158125.9 | 2.966949672 | background | background | 4 |
| ENSG00000158458.19 | 1.133897725 | background | NA | NA | 4 |
| ENSG00000159176.13 | 1.091315492 | 5 | background | 5 |
| ENSG00000159289.6 | 1.853358572 | 5 | background | 5 |
| ENSG00000159307.18 | 1.706247544 | background | background | 4 |
| ENSG00000159450.12 | 1.17892398 | NA | NA | background | background |
| ENSG00000159479.16 | -1.076583035 | background | background | 5 |
| ENSG00000160219.11 | 1.262738547 | background | background | 3 |
| ENSG00000160685.13 | 1.212768132 | NA | background | 5 |
| ENSG00000161405.16 | 1.396523014 | NA | background | 5 |
| ENSG00000161513.11 | 1.017776868 | background | background | 5 |
| ENSG00000161544.9 | 1.999129082 | background | background | 5 |
| Gene ID          | Value         | Column1 | Column2 | Column3 | Column4 | Column5 |
|-----------------|---------------|---------|---------|---------|---------|---------|
| ENSG00000161642.17 | 1.003903933   | background | background | background |         | 5       |
| ENSG00000161860.7  | 1.001848697   | background | background | background |         | 5       |
| ENSG00000161992.5  | 2.356789804   | 3         | background | background |         | 3       |
| ENSG00000162066.14 | 1.31398109    | background | background | background |         | 5       |
| ENSG00000162490.6  | 2.182243255   | background | background | background |         | 5       |
| ENSG00000162511.7  | 2.925839004   | background | background | background |         | 4       |
| ENSG00000162772.16 | -1.284182178  | background | background | background |         | 5       |
| ENSG00000162814.10 | -1.608398488  | background | background | background |         | 5       |
| ENSG00000162981.13 | 3.374217903   | NA       | background |         |         | 4       |
| ENSG00000163083.5  | 1.215481919   | NA       | background |         |         | 5       |
| ENSG00000163344.5  | -1.25495325   | background | background |         |         | 5       |
| ENSG00000163362.10 | 1.07647989    | 5         | background |         |         | 4       |
| ENSG00000163536.12 | -1.042009847  | 4         | background |         |         | 4       |
| ENSG00000163793.12 | 3.718299136   | background | background | background |         | 5       |
| ENSG00000163817.15 | 2.01962367    | background | background |         |         | 5       |
| ENSG00000164379.6  | 6.500812437   | NA       | background | background |         | 5       |
| ENSG00000164411.11 | 1.3352781     | background | background |         |         | 5       |
| ENSG00000164649.19 | -1.020843787  | background | background |         |         | 5       |
| ENSG00000164853.8  | 1.06695313    | background | background | background |         | 5       |
| ENSG00000164938.13 | 1.74633136    | background | background |         |         | 5       |
| ENSG00000165029.15 | 2.146626146   | 5         | background |         |         | 4       |
| ENSG00000166566.12 | 1.32652738    | NA       | 5         |         |         | 5       |
| ENSG00000165905.17 | 1.765050601   | 5         | background |         |         | 4       |
| ENSG00000166341.7  | 1.004236513   | background | background |         |         | 4       |
| ENSG00000166405.14 | 2.030774886   | 4         | background |         |         | 4       |
| ENSG00000166707.10 | 1.038802815   | NA       | 5         | background |         | 5       |
| ENSG00000166780.10 | 1.082147555   | background | background |         |         | 5       |
| ENSG00000166863.11 | 4.856094377   | background | background | NA       |         | 5       |
| ENSG00000167103.11 | 1.59084614    | background | background |         |         | 5       |
| ENSG00000167195.7  | 3.287071142   | 5         | NA       | NA       |         | 5       |
| ENSG00000167244.18 | 1.916832747   | background | background |         |         | 5       |
| ENSG00000167524.14 | 1.040079994   | background | NA       | NA       |         | 5       |
| ENSG00000167550.10 | 1.50823265    | background | background | background |         | 5       |
| ENSG00000167676.4  | 1.508310907   | background | NA       | background |         | 5       |
| ENSG00000167680.15 | 1.709502607   | background |         | 5         |         | 5       |
| ENSG00000167711.13 | 3.18329488    | 5         | background |         |         | 5       |
| ENSG00000167747.14 | -1.097054085  | background | background |         |         | 5       |
| ENSG00000167992.12 | 1.53194879    | background | background |         |         | 5       |
| ENSG00000168135.4  | 1.952443351   | NA       | background |         |         | 4       |
| ENSG00000168267.6  | 3.443930484   | NA       | background | background |         | 5       |
| ENSG00000168314.17 | 3.63105439    | NA       | background |         |         | 3       |
| ID            | Value          | Location | Intron | Exon | Background |
|--------------|----------------|----------|--------|------|------------|
| ENSG00000168348.3 | 2.707093513 | NA       | 5      | 5    | background |
| ENSG00000168453.14 | 2.15969617  | 4        | 4      | 5    | background |
| ENSG00000168477.17 | 1.345694912 | background | background | background | 4 |
| ENSG00000168878.16 | 2.14741441  | background | background | background | 5 |
| ENSG00000168918.13 | 3.196874539 | 4         | 4      | 5    | background |
| ENSG00000168993.14 | 1.04183459  | 5        | 4      | 5    | background |
| ENSG00000169071.14 | 1.052673829 | background | background | background | 3 |
| ENSG00000169085.11 | 2.588833916 | 5        | 4      | 4    | background |
| ENSG0000017025.5 | 1.347013704 | NA       | 5      | 5    | background |
| ENSG00000170396.7 | -1.011423273 | background | background | background | 4 |
| ENSG00000170608.2 | 1.240347649 | NA       | background | background | 4 |
| ENSG00000170703.15 | 1.905247381 | 4         | 4      | 5    | background |
| ENSG00000170835.14 | 1.04982621 | background | background | background | 5 |
| ENSG00000170989.8 | 1.306692124 | NA       | background | background | 5 |
| ENSG00000171124.12 | 2.511807776 | background | background | background | 5 |
| ENSG00000171219.8 | 1.62168932  | background | NA     | background | 5 |
| ENSG00000171246.5 | 1.208075082 | 5         | 4      | 4    | background |
| ENSG00000171540.7 | 2.800167774 | background | background | background | 5 |
| ENSG00000171786.5 | 1.233746719 | NA       | 5      | 5    | background |
| ENSG00000171794.3 | 3.910417632 | NA       | background | background | 5 |
| ENSG00000171992.12 | 1.515030713 | 5         | 5      | 5    | background |
| ENSG00000172209.5 | 2.106786497 | background | background | background | 5 |
| ENSG00000172349.17 | 2.49804112  | 5         | NA     | NA    | 4 |
| ENSG00000172752.14 | -1.517918921 | background | 5      | 5    | background |
| ENSG00000172771.11 | 1.009098225 | 5         | 5      | 5    | background |
| ENSG00000172794.19 | 1.824576811 | background | background | background | 4 |
| ENSG00000172803.17 | 2.471168783 | 5         | background | background | 4 |
| ENSG00000172969.7 | 3.517791994 | NA       | background | background | 5 |
| ENSG00000172992.11 | -1.049058006 | background | background | background | 4 |
| ENSG00000173175.14 | 1.055211243 | 5         | 5      | 5    | background |
| ENSG00000173200.12 | 1.248058071 | background | background | background | 4 |
| ENSG00000173404.4 | 1.36802281 | NA       | background | background | 4 |
| ENSG00000173597.8 | 1.255602936 | background | background | background | 4 |
| ENSG00000173762.7 | 2.429373493 | background | background | background | 4 |
| ENSG00000174307.6 | 1.032100597 | background | background | background | 5 |
| ENSG00000174837.14 | 2.35227302  | 4         | background | background | 4 |
| Gene ID          | Value   | Type   | Type | Type | Type |
|-----------------|---------|--------|------|------|------|
| ENSG00000174844.14 | 1.430306772 | background | background | background | background |
| ENSG00000174871.10  | 1.289526434 | background | background | background | background |
| ENSG00000174898.15  | 1.86396432 | background | background | background | background |
| ENSG00000174945.13  | 1.901397752 | background | background | background | background |
| ENSG00000175003.12  | 2.90423809 | background | background | background | background |
| ENSG00000175356.12  | 1.52493604 | background | background | background | background |
| ENSG00000175581.13  | -1.150717512 | background | background | background | background |
| ENSG00000175592.8  | 1.75463557 | NA | background | background | background |
| ENSG00000175820.3  | 1.55966605 | background | background | background | background |
| ENSG00000175894.14  | 1.5685299 | background | background | background | background |
| ENSG00000175920.16  | 1.34806591 | background | background | background | background |
| ENSG00000176170.13  | 1.009447389 | background | background | background | background |
| ENSG00000176788.8  | 1.12201669 | NA | background | background | background |
| ENSG00000176887.6  | 3.930821101 | NA | background | background | background |
| ENSG00000176907.4  | -3.341661957 | NA | background | background | background |
| ENSG00000177374.12  | 2.206415558 | NA | background | background | background |
| ENSG00000177483.11  | 1.412171975 | 5 | background | background | background |
| ENSG00000177551.5  | 2.134190177 | background | background | background | background |
| ENSG00000177606.6  | -1.17023969 | NA | background | background | background |
| ENSG00000177807.8  | 2.138064546 | NA | background | background | background |
| ENSG00000178150.9  | 1.183019133 | background | background | background | background |
| ENSG00000178690.2  | 4.120762954 | NA | background | background | background |
| ENSG00000178726.6  | 1.733660586 | NA | background | background | background |
| ENSG00000178773.14  | 1.135309122 | background | background | background | background |
| ENSG00000178809.7  | 1.168320252 | NA | background | background | background |
| ENSG00000179292.4  | 2.04940966 | NA | background | background | background |
| ENSG00000179583.18  | 1.394487282 | background | background | background | background |
| ENSG00000179674.3  | -4.926485244 | NA | background | background | background |
| ENSG00000179698.13  | 1.329824064 | background | background | background | background |
| ENSG00000179698.13  | 1.329824064 | background | background | background | background |
| ENSG00000180525.11  | 1.723642768 | background | background | background | background |
| ENSG00000180828.2  | 4.483990531 | NA | background | background | background |
| ENSG00000181291.7  | 2.210219566 | background | background | background | background |
| ENSG00000181355.20  | 1.999568941 | background | background | background | background |
| ENSG00000181444.12  | 1.571316964 | background | background | background | background |
| ENSG00000181649.5  | 1.367796115 | NA | background | background | background |
| ENSG00000181652.19  | 1.950735763 | background | NA | background | background |
| ENSG00000181856.14  | 1.056007623 | background | background | background | background |
| ENSG00000181982.18  | 2.554071848 | background | background | background | background |
| ENSG00000182179.12  | 1.252846449 | 3 | background | background | background |
| ENSG00000182230.11  | 1.822237346 | background | 5 | background | background |
| Accession          | Value   | Column 1 | Column 2 | Column 3 | Column 4 | Column 5 | Column 6 |
|--------------------|---------|----------|----------|----------|----------|----------|----------|
| ENSG00000182326.14 | 1.196897681 | 5        | background | background | 4        |          |          |
| ENSG00000182459.4  | 1.58965753  | NA       | background | background | 5        |          |          |
| ENSG00000182492.15 | 2.689709703 | 5        | background | background | 5        |          |          |
| ENSG00000182600.9  | 1.116822547 | NA       | background | background | 4        |          |          |
| ENSG00000182687.3  | 2.051497641 | NA       | background | background | 5        |          |          |
| ENSG00000182759.3  | 2.323115945 | NA       | NA        | background | 5        |          |          |
| ENSG00000182809.10 | 1.563296385 | background | 5        | 5        | 5        |          |          |
| 3 | ENSG00000186976.14 | 1.01228254 | 5 | 5 | background | 3 |
| 3 | ENSG00000186994.11 | 1.69799714 | background | background | background | 4 |
| 3 | ENSG00000187017.15 | 4.085080694 | background | background | background | 4 |
| 3 | ENSG00000187026.2 | -3.043148186 | NA | background | background | background | 4 |
| 3 | ENSG00000187122.16 | 1.130820634 | 4 | background | 5 | 4 |
| 3 | ENSG00000187135.7 | 2.93199866 | background | background | background | 5 |
| 3 | ENSG00000187796.14 | 1.048746513 | background | background | background | 4 |
| 3 | ENSG00000187800.13 | 2.901756824 | 5 | background | background | 3 |
| 3 | ENSG00000187837.3 | 1.293231997 | NA | NA | NA | 5 |
| 3 | ENSG00000187848.12 | 1.56520089 | background | NA | NA | 5 |
| 3 | ENSG0000018796.14 | 1.053904128 | NA | background | background | 4 |
| 3 | ENSG00000187883.7 | 1.300628584 | NA | background | background | background | 4 |
| 3 | ENSG00000188523.8 | 1.223913311 | 5 | background | 5 | 4 |
| 3 | ENSG00000188672.17 | -1.012902544 | background | 4 | background | 4 |
| 3 | ENSG00000188729.6 | -1.528235752 | NA | NA | NA | 4 |
| 3 | ENSG00000188766.12 | 1.415940523 | background | background | 5 | 5 |
| 3 | ENSG00000188981.10 | 2.043889505 | background | background | background | 5 |
| 3 | ENSG00000196092.12 | 1.54639135 | background | background | 5 | 3 |
| 3 | ENSG00000196337.11 | 1.928679834 | NA | background | background | 5 |
| 3 | ENSG00000196653.11 | -1.023005506 | 5 | background | 5 | 5 |
| 3 | ENSG00000196787.3 | 1.336597464 | NA | background | background | background | 5 |
| 3 | ENSG00000196878.14 | -2.381792349 | background | background | background | 5 |
| 3 | ENSG00000196993.8 | 1.290395543 | background | 5 | background | 5 |
| 3 | ENSG00000197044.10 | 1.454257975 | background | background | background | 5 |
| 3 | ENSG00000197093.10 | 1.776287703 | background | background | 5 | 5 |
| 3 | ENSG00000197406.7 | 1.890636302 | background | background | background | 5 |
| 3 | ENSG00000197903.7 | 1.26408951 | NA | NA | background | 4 |
| 3 | ENSG00000197921.5 | 6.085180482 | background | background | background | 4 |
| 3 | ENSG00000198026.7 | 1.299737644 | 4 | background | background | 4 |
| 3 | ENSG00000198133.8 | 1.20280867 | background | background | background | 4 |
| 3 | ENSG00000198156.10 | 1.929309246 | background | 5 | background | 5 |
| 3 | ENSG00000198342.5 | 2.949776575 | background | background | background | 5 |
| 3 | ENSG00000198400.11 | 1.613891458 | background | background | NA | 4 |
| 3 | ENSG00000198523.5 | 4.161481618 | NA | background | background | 4 |
| 3 | ENSG00000198535.5 | 2.350778681 | NA | background | background | background | 5 |
| 3 | ENSG00000198576.3 | 1.769998694 | background | background | background | 5 |
| 3 | ENSG00000198598.6 | 1.258411069 | background | background | 5 | 4 |
| 3 | ENSG00000198719.8 | 2.418029787 | background | background | background | 4 |
| Gene ID          | Value       | Log2 Fold Change | p-value | Enrichment Score | Category |
|-----------------|-------------|-----------------|---------|-----------------|----------|
| ENSG00000198753 | 3.11        | 2.328290601     | NA      | background       | 5        |
| ENSG00000203685 | 9.2         | 2.00328974      | NA      | background       | 5        |
| ENSG00000203811 | 1.11        | 1.20413918      | NA      | background       | 5        |
| ENSG00000203812 | 1.22        | 1.40135687      | NA      | background       | 5        |
| ENSG00000203852 | 1.23        | 1.20413918      | NA      | background       | 5        |
| ENSG00000203952 | 1.24        | 1.435681268     | NA      | background       | 5        |
| ENSG00000204103 | 1.25        | 1.764035171     | NA      | background       | 5        |
| ENSG00000204219 | 1.26        | 2.581317837     | NA      | background       | 5        |
| ENSG00000204301 | 1.27        | 1.21055737      | NA      | background       | 5        |
| ENSG00000204657 | 1.28        | 1.826940893     | NA      | background       | 5        |
| ENSG00000205085 | 1.29        | 2.05080423      | NA      | background       | 5        |
| ENSG00000205277 | 1.30        | 6.150070958     | NA      | background       | 4        |
| ENSG00000205327 | 1.31        | 1.733064733     | S       | background       | 3        |
| ENSG00000206172 | 1.32        | 2.239352288     | S       | background       | 3        |
| ENSG00000213398 | 1.33        | 1.07299605      | S       | background       | 5        |
| ENSG00000213578 | 1.34        | 2.516683673     | S       | background       | 4        |
| ENSG00000213593 | 1.35        | -1.194123111    | S       | background       | 5        |
| ENSG00000214814 | 1.36        | 2.805283394     | S       | background       | 4        |
| ENSG00000214897 | 1.37        | 3.167888304     | S       | background       | 5        |
| ENSG00000215529 | 1.38        | 2.778572286     | S       | background       | 4        |
| ENSG00000221821 | 1.39        | -1.745726265    | S       | background       | 5        |
| ENSG00000221986 | 1.40        | 5.607705166     | S       | background       | 5        |
| ENSG00000223573 | 1.41        | 1.598059315     | S       | background       | 5        |
| ENSG00000224389 | 1.42        | 1.657356223     | S       | background       | 5        |
| ENSG00000225614 | 1.43        | 3.098176921     | S       | background       | 4        |
| ENSG00000225899 | 1.44        | 2.576248777     | S       | background       | 5        |
| ENSG00000229544 | 1.45        | 1.601762347     | S       | background       | 5        |
| ENSG00000232237 | 1.46        | 2.033941591     | S       | background       | 5        |
| ENSG00000233136 | 1.47        | 8.44983596      | S       | background       | 5        |
| ENSG00000234289 | 1.48        | 1.175372973     | S       | background       | 5        |
| ENSG00000235098 | 1.49        | 2.452803549     | S       | background       | 5        |
| ENSG00000240583 | 1.50        | 1.342161936     | S       | background       | 5        |
| ENSG00000242265 | 1.51        | 2.672590436     | S       | background       | 5        |
| ENSG00000242689 | 1.52        | 1.543312829     | S       | background       | 5        |
| ENSG00000242715 | 1.53        | 1.110208656     | S       | background       | 4        |
| ENSG00000243137 | 1.54        | -3.937513779    | S       | background       | 5        |
| ENSG00000244242 | 1.55        | 2.355228107     | S       | background       | 5        |
| Gene Symbol | ENSG0000024482.5 | 1.612270021 | NA | background | background | 4 |
|-------------|------------------|-------------|----|------------|------------|---|
| Gene Symbol | ENSG00000244731.7 | 1.25128023 | 5 | background | background | 5 |
| Gene Symbol | ENSG00000248167.7 | 1.419722416 | 5 | background | background | 5 |
| Gene Symbol | ENSG00000248751.6 | 1.433164964 | 5 | NA | background | 5 |
| Gene Symbol | ENSG00000249624.8 | 1.371778878 | background | NA | NA | 5 |
| Gene Symbol | ENSG00000249931.4 | 1.39358765 | background | NA | NA | 4 |
| Gene Symbol | ENSG00000250722.5 | -1.362217658 | background | background | background | 5 |
| Gene Symbol | ENSG00000254415.3 | 2.129031793 | background | background | background | 5 |
| Gene Symbol | ENSG00000257184.3 | 1.116140355 | NA | background | 4 |
| Gene Symbol | ENSG00000257315.2 | -1.061869561 | background | background | 5 |
| Gene Symbol | ENSG00000258986.6 | -1.123863667 | background | background | background | 4 |
| Gene Symbol | ENSG00000259399.1 | 2.034880463 | background | background | background | 4 |
| Gene Symbol | ENSG00000260286.3 | 4.164781248 | NA | background | background | background |
| Gene Symbol | ENSG00000260325.1 | 1.83348923 | NA | background | background | background |
| Gene Symbol | ENSG00000261150.2 | 1.10339568 | background | background | background | 5 |
| Gene Symbol | ENSG00000261308.2 | 2.46508203 | NA | background | background | 5 |
| Gene Symbol | ENSG00000261341.6 | 1.36809262 | NA | background | background | 5 |
| Gene Symbol | ENSG00000267978.5 | 2.181880603 | NA | background | background | 5 |
| Gene Symbol | ENSG00000268089.2 | 1.610436268 | 5 | background | 5 |
| Gene Symbol | ENSG00000271425.7 | 1.095180996 | 5 | background | NA | 5 |
| Gene Symbol | ENSG00000274559.3 | 1.175372973 | NA | background | background | background |
| Gene Symbol | ENSG00000274744.1 | 5.729343807 | NA | NA | 5 |
| Gene Symbol | ENSG00000275324.2 | 1.251917384 | background | background | 5 |
| Gene Symbol | ENSG00000276180.1 | 1.169959808 | NA | background | background |
| Gene Symbol | ENSG00000277745.1 | 2.225528623 | NA | background | background | background |
| Gene Symbol | ENSG00000282804.1 | 3.3623042 | background | NA | background | 4 |
| Gene Symbol | ENSG00000283496.1 | 2.157685039 | background | NA | background | 5 |
| Gene Symbol | ENSG00000284641.1 | -2.996262088 | 5 | background | background | 4 |
| Gene Symbol | ENSG00000284713.1 | 6.259122975 | NA | background | 5 |
| Gene Symbol | ENSG00000004848.7 | 3.002042835 | background | background | background |
| Gene Symbol | ENSG00000006283.17 | 1.152600781 | 4 | NA | background | 4 |
| Gene Symbol | ENSG00000006283.17 | 1.152600781 | background | NA | background | 4 |
| Gene Symbol | ENSG00000006327.13 | -1.431653342 | NA | background | background | background |
| Gene Symbol | ENSG00000006747.14 | 1.164541939 | 4 | background | 4 |
| Gene Symbol | ENSG00000007237.18 | 1.009261446 | 3 | background | background |
| Gene Symbol | ENSG00000010030.13 | 2.03944088 | background | background | background |
| Gene Symbol | ENSG00000010282.14 | 4.445549016 | background | background | background |
| Gene Symbol | ENSG00000010379.15 | 2.869972954 | background | background | background | 3 |
| Gene Symbol | ENSG00000010671.15 | 2.293476694 | background | background | background | 4 |
| Gene Symbol | ENSG00000011021.21 | 1.17160126 | background | background | background | background |
| Gene ID       | Value       | Background 1 | Background 2 | Background 3 | Background 4 |
|--------------|-------------|--------------|--------------|--------------|--------------|
| ENSG00000012779.10 | 2.650599348 | Background | Background | Background | Background |
| ENSG00000015520.14 | 1.97847269  | Background | Background | Background | Background |
| ENSG00000019582.14 | 3.351465419 | Background | Background | Background | Background |
| ENSG00000026103.21 | 1.072254023 | Background | Background | Background | Background |
| ENSG00000028137.18 | 2.48584126  | Background | Background | Background | Background |
| ENSG00000039987.6  | 1.782489009 | Background | NA           | Background | Background |
| ENSG00000046774.9  | -1.074356059| Background | Background | Background | Background |
| ENSG00000047936.10 | 3.215119183 | Background | Background | Background | Background |
| ENSG00000052038.13 | 1.148969896 | Background | Background | Background | Background |
| ENSG00000056361.14 | 1.284669749 | Background | Background | Background | Background |
| ENSG00000059378.12 | 3.096740117 | Background | Background | Background | Background |
| ENSG00000062038.13 | 1.149379134 | Background | Background | Background | Background |
| ENSG00000064300.8  | 1.743417971 | Background | Background | Background | Background |
| ENSG00000064888.13 | 2.987354863 | 4 Background | Background | Background | Background |
| ENSG00000065631.14 | 1.284669749 | Background | Background | Background | Background |
| ENSG00000065717.14 | 1.419397134 | Background | Background | Background | Background |
| ENSG0000006652.17  | 2.308690485 | Background | Background | Background | Background |
| ENSG00000068976.13 | 2.80847128  | Background | Background | Background | Background |
| ENSG00000069818.11 | 2.175348406 | Background | Background | Background | Background |
| ENSG00000073464.11 | 1.741502987 | Background | Background | Background | Background |
| ENSG00000074276.10 | 1.322889869 | Background | Background | Background | Background |
| ENSG00000074660.15 | 1.68790275  | Background | Background | Background | Background |
| ENSG00000078795.16 | 1.69453428  | Background | Background | Background | Background |
| ENSG00000079385.21 | 2.25352476  | Background | Background | Background | Background |
| ENSG00000080114.11 | 2.088339995 | Background | Background | Background | Background |
| ENSG00000081665.13 | 1.06841265  | Background | Background | Background | Background |
| ENSG00000082293.12 | 1.238514725 | Background | Background | Background | Background |
| ENSG00000083454.21 | 1.93905144  | Background | Background | Background | Background |
| ENSG00000084110.10 | 1.394395356 | Background | Background | Background | Background |
| ENSG00000084636.17 | 1.315257808 | Background | Background | Background | Background |
| ENSG00000085465.12 | 1.607270081 | Background | Background | Background | Background |
| ENSG00000085514.15 | 1.253170062 | Background | Background | Background | Background |
| ENSG00000086967.9  | 2.929679063 | 4 Background | Background | Background | Background |
| ENSG00000087245.12 | 2.584045578 | Background | Background | Background | Background |
| ENSG00000087589.16 | 2.30444984  | Background | Background | Background | Background |
| ENSG00000088227.12 | 3.714159049 | Background | NA           | Background | Background |
| ENSG00000089163.4  | 1.210631133 | Background | Background | Background | Background |
| ENSG00000089820.15 | 1.055794101 | Background | Background | Background | Background |
| ENSG00000090238.11 | 1.0424689  | Background | Background | Background | Background |
| ENSG00000091181.19 | 3.32021962 | background | background | background | 4 |
|-------------------|------------|------------|------------|------------|---|
| ENSG00000091831.23 | 3.359064526 | background | background | background | 3 |
| ENSG00000092295.11 | 1.016887662 | background | background | background | 3 |
| ENSG00000092607.13 | 1.44610004 | background | background | background | 3 |
| ENSG00000095713.13 | 1.683560341 | background | background | background | 4 |
| ENSG00000095752.6 | 1.481385972 | background | background | background | 4 |
| ENSG00000099365.10 | 1.476102273 | background | background | background | 4 |
| ENSG00000099812.8 | 3.094328784 | background | background | background | 3 |
| ENSG00000100012.11 | 2.947713981 | background | background | background | 4 |
| ENSG00000100285.9 | 2.445004345 | background | background | background | 4 |
| ENSG00000100290.2 | 1.644924852 | background | background | background | 4 |
| ENSG00000100298.15 | 2.590512974 | background | background | background | 4 |
| ENSG00000101438.3 | 4.795603415 | background | background | background | 4 |
| ENSG00000101384.11 | 1.145499968 | background | background | background | 4 |
| ENSG00000101438.3 | 4.795603415 | background | background | background | 4 |
| ENSG00000101297.14 | 1.436718153 | background | background | background | 4 |
| ENSG00000101162.3 | 1.749214955 | background | background | background | 4 |
| ENSG00000101194.17 | 1.36378623 | background | background | background | 4 |
| ENSG00000101203.16 | 3.379875529 | background | background | background | 4 |
| ENSG00000101306.10 | 2.562449047 | background | background | background | 4 |
| ENSG00000101384.11 | 1.145499968 | background | background | background | 4 |
| ENSG00000101438.3 | 4.795603415 | background | background | background | 4 |
| ENSG00000102057.9 | 1.110360351 | background | background | background | 4 |
| ENSG00000102195.9 | 1.173835675 | background | background | background | 4 |
| ENSG00000102287.18 | 3.5283638 | background | background | background | 4 |
| ENSG00000103196.11 | 1.052145088 | background | background | background | 3 |
| ENSG00000103740.9 | 1.88579141 | background | background | background | 4 |
| ENSG00000104783.11 | 4.632285462 | background | background | background | 4 |
| ENSG00000104827.12 | 2.12921194 | background | background | background | 4 |
| ENSG00000104848.1 | 1.644963115 | background | background | background | 4 |
| ENSG00000104856.13 | 1.150068338 | background | background | background | 4 |
| ENSG00000104879.4 | 2.360172683 | background | background | background | 4 |
| ENSG00000104888.9 | 1.466704211 | background | background | background | 4 |
| ENSG00000104967.6 | 1.06249025 | background | background | background | 4 |
| ENSG00000105219.8 | 3.22936177 | background | background | background | 4 |
| ENSG00000105227.14 | 1.702291075 | background | background | background | 4 |
| ENSG00000105246.5 | 5.116682944 | background | background | background | 4 |
| ENSG00000105327.17 | 2.13371014 | background | background | background | 4 |
| ENSG00000105650.21 | 1.012783292 | background | background | background | 4 |
| ENSG00000105697.7 | 1.573176396 | background | background | background | 4 |
| ENSG00000105967.15 | 3.487807134 | background | background | background | 3 |
| ENSG00000106624.10 | 2.211514909 | background | background | background | 4 |
| Gene ID              | Value 1          | Value 2          | Value 3          | Value 4          |
|---------------------|------------------|------------------|------------------|------------------|
| ENSG00000106991.13 | 2.141555476      | background       | background       | 4                |
| ENSG00000107742.12 | 1.005454418      | background       | background       | 4                |
| ENSG00000107796.13 | 1.496534222      | background       | background       | 2                |
| ENSG00000108242.12 | 2.34183281       | background       | background       | 4                |
| ENSG00000108551.4  | 2.605106209      | NA               | background       | background       |
| ENSG00000109339.20 | 1.238663044      | background       | background       | 3                |
| ENSG00000111199.10 | 1.269069972      | background       | background       | 4                |
| ENSG00000111344.11 | 2.420017179      | background       | background       | 4                |
| ENSG00000111860.13 | 1.365265374      | background       | background       | 4                |
| ENSG00000111886.10 | 2.143626628      | background       | background       | 2                |
| ENSG00000111913.17 | 1.723078067      | background       | background       | 4                |
| ENSG00000111216.9  | 6.032702084      | background       | background       | 4                |
| ENSG00000112773.15 | 1.172979022      | background       | background       | 4                |
| ENSG00000112818.9  | 4.804975351      | background       | background       | 4                |
| ENSG00000113721.13 | 4.261257813      | background       | background       | 4                |
| ENSG00000114378.16 | 1.727779256      | NA               | background       | background       |
| ENSG00000115266.11 | 1.056593021      | background       | background       | 4                |
| ENSG00000115474.6  | 2.099231532      | background       | background       | 4                |
| ENSG00000115705.20 | 2.775916685      | 4                | background       | 3                |
| ENSG00000115850.9  | 3.021647408      | background       | background       | 4                |
| ENSG00000116014.9  | 5.102834504      | background       | background       | 4                |
| ENSG00000116254.17 | 1.39541966       | background       | background       | 4                |
| ENSG00000116299.16 | 1.725259361      | background       | background       | 4                |
| ENSG00000116329.10 | 1.237323765      | background       | background       | 4                |
| ENSG00000116726.4  | 5.380327823      | NA               | background       | 4                |
| ENSG00000117215.14 | 2.81009112       | background       | background       | 4                |
| ENSG00000117281.15 | 1.345440319      | NA               | background       | 4                |
| ENSG00000117707.15 | 1.023382002      | background       | 3                |
| ENSG00000117770.15 | 1.023382002      | NA               | background       | 3                |
| ENSG00000118004.17 | 2.797085124      | NA               | background       | 3                |
| ENSG00000118194.18 | 2.776689329      | background       | background       | 4                |
| ENSG00000118298.10 | 1.710463099      | background       | background       | background       |
| ENSG00000118729.11 | 2.31910204       | background       | background       | 4                |
| ENSG00000118898.15 | 3.449456711      | 4                | background       | 4                |
| ENSG00000119283.15 | 1.554632025      | background       | NA               | background       |
| ENSG00000119630.13 | 1.727511797      | background       | background       | 4                |
| ENSG00000119681.11 | 1.271002011      | background       | background       | 4                |
| ENSG00000119737.5  | 1.270779202      | NA               | background       | 4                |
| ENSG00000119888.10 | 1.260203231      | background       | background       | 4                |
| Gene ID          | Value            | Background | Background | Background | Background |
|-----------------|------------------|------------|------------|------------|------------|
| ENSG00000119915.4 | 5.175238276      | background | background | background | background |
| ENSG00000121075.9 | 2.061488142      | background | background | background | background |
| ENSG00000121101.15 | 1.181266357    | 4          | background | background | background |
| ENSG00000122877.15 | 1.983445881    | NA         | background | background | background |
| ENSG00000123901.8 | 1.976726529      | background | background | background | background |
| ENSG00000124103.8 | 1.702169502      | NA         | 4          | background | background |
| ENSG00000124216.3 | 2.999211045      | NA         | background | 4          | background |
| ENSG00000124635.8 | 2.789216789      | NA         | NA         | NA         | background |
| ENSG00000124657.1 | 2.112876864      | NA         | NA         | NA         | background |
| ENSG00000124762.13 | 1.43461251      | NA         | background | background | background |
| ENSG00000124772.11 | 1.931922019      | 4          | background | background | background |
| ENSG00000125285.5 | 1.263617744      | NA         | 4          | background | background |
| ENSG00000125337.16 | 1.109133496     | background | background | background | background |
| ENSG00000125730.16 | 1.2153688       | 4          | background | background | background |
| ENSG00000126353.3 | 4.461684659      | background | background | background | background |
| ENSG00000126460.10 | 2.091961094     | background | background | background | background |
| ENSG00000126895.13 | 3.394056086     | NA         | background | background | background |
| ENSG00000127129.9 | 5.261363475      | background | background | background | background |
| ENSG00000127512.17 | 1.048710131     | NA         | background | 4          | background |
| ENSG00000127507.17 | 1.33918598      | background | background | background | background |
| ENSG00000127530.3 | 1.34906642      | NA         | background | background | background |
| ENSG00000127578.6 | 1.227091822     | NA         | background | background | background |
| ENSG00000128218.7 | 1.672203277     | NA         | background | background | background |
| ENSG00000128242.12 | 2.553232062     | NA         | background | background | background |
| ENSG00000128285.4 | 4.609898225     | NA         | 4          | background | background |
| ENSG00000128340.14 | 2.328514919     | background | background | background | background |
| ENSG00000128342.4 | 3.582038679     | background | background | background | background |
| ENSG00000128422.15 | 1.224197407     | background | background | background | background |
| ENSG00000128564.6 | 1.583355572     | NA         | background | background | background |
| ENSG00000128655.17 | 1.554136799     | background | background | background | background |
| ENSG00000128917.6 | 1.57229794      | background | background | background | background |
| ENSG00000129048.6 | 1.484739917     | NA         | background | background | background |
| ENSG00000129226.13 | 3.10834708      | background | background | background | background |
| ENSG00000129654.7 | 3.293527468     | background | background | background | background |
| ENSG00000129749.3 | 1.247470416     | background | background | background | background |
| ENSG00000129757.12 | 1.417066962     | background | background | background | background |
| ENSG00000129951.18 | 1.733735822     | background | background | background | background |
| ENSG00000130052.13 | 1.10123206      | 4          | background | background | background |
| ENSG00000130182.7 | 2.277118347     | background | background | background | background |
| ENSG00000130203.9 | 1.685628118     | background | background | background | background |
| ENSG00000130222.10 | 3.546470235     | background | background | background | background |
| Gene ID     | Value       | Expression | Background | gene set | weight |
|------------|-------------|------------|------------|----------|---------|
| ENSG00000130270.16 | 1.262418996 | background | background | 3        |         |
| ENSG00000130377.13 | 1.841255305 | background | background | 4        |         |
| ENSG00000130477.15 | 1.229831944 | background | NA         | background | background |
| ENSG00000130513.6 | 3.943929061 | background | background | 3        |         |
| ENSG00000130561.16 | 1.389796801 | background | background | 4        |         |
| ENSG00000130595.18 | 5.237373909 | background | background | 4        |         |
| ENSG00000130598.15 | 3.950833816 | background | NA         | background | background |
| ENSG00000130783.13 | 2.180960271 | background | background | 4        |         |
| ENSG00000130844.16 | 2.14662758  | 4          | 4          | background | 4        |
| ENSG00000130943.6 | 1.24926611  | NA         | background | 4        |         |
| ENSG00000131018.22 | 1.209496715 | background | background | 3        |         |
| ENSG00000131061.13 | 1.17925091  | background | background | 4        |         |
| ENSG00000131080.14 | 1.975659283 | background | background | 4        |         |
| ENSG00000131183.10 | 4.919680699 | 4          | background | 4        |         |
| ENSG00000131398.13 | 1.164587264 | background | background | 3        |         |
| ENSG00000131471.6 | 1.74057088 | background | background | 4        |         |
| ENSG00000131480.8 | 1.311581342 | background | background | 4        | background |
| ENSG00000131864.10 | 6.123210921 | background | background | 4        |         |
| ENSG00000131914.10 | 1.795950313 | background | background | 4        |         |
| ENSG00000132000.11 | 2.627633959 | 4          | background | 4        |         |
| ENSG00000132026.13 | 2.31895171  | background | background | 4        |         |
| ENSG00000132274.15 | 1.637976461 | background | background | 4        |         |
| ENSG00000132334.16 | 1.33556157  | 4          | background | 4        |         |
| ENSG00000132718.8 | 1.262375619 | 4          | background | 4        |         |
| ENSG00000133063.15 | 2.716869842 | background | background | 4        |         |
| ENSG00000133812.15 | 1.003378386 | background | background | 3        |         |
| ENSG00000134242.15 | 1.670893449 | background | background | 4        |         |
| ENSG00000134323.11 | 3.021026275 | background | background | 4        |         |
| ENSG00000134363.11 | 1.980879489 | NA         | background | background | background |
| ENSG00000134463.14 | 6.280335368 | background | background | 4        |         |
| ENSG00000134539.16 | 1.548904156 | background | background | 4        |         |
| ENSG00000134595.8 | 1.512076828 | NA         | background | 4        |         |
| ENSG00000135046.13 | -2.05401391 | background | background | 3        |         |
| ENSG00000135248.15 | 4.748925113 | background | background | 3        | 3        |
| ENSG00000135406.13 | 1.630617025 | background | 3          | background | 3        |
| ENSG00000135423.12 | 1.448226813 | background | background | 4        |         |
| ENSG00000135519.6 | 1.710187964 | background | background | 4        |         |
| ENSG00000135824.12 | 6.567238758 | background | NA         | 4        |         |
| ENSG00000136048.13 | 1.191339107 | background | background | 3        |         |
| ENSG00000136099.13 | 2.105126222 | background | background | 4        | background |
| ENSG00000136872.17 | 3.418739132 | 4          | background | 4        |         |
| Gene ID          | Value      | Background 1 | Background 2 | Background 3 | Background 4 |
|-----------------|------------|--------------|--------------|--------------|--------------|
| ENSG00000136881.11 | 1.491645316 | background   | background   | background   | 4            |
| ENSG00000136931.9  | 2.378781915 | background   | background   | background   | 3            |
| ENSG00000136999.4  | -1.229985864 | background   | background   | background   | 4            |
| ENSG00000137331.11 | 1.793241743 | NA           | background   | background   | background   |
| ENSG00000137491.14 | 2.143862595 | background   | background   | background   | 4            |
| ENSG00000137868.18 | 2.361375013 | background   | background   | background   | 4            |
| ENSG00000137877.9  | 2.14668979  | background   | background   | background   | 4            |
| ENSG00000137976.7  | 4.755756247 | background   | background   | background   | 4            |
| ENSG00000138100.13 | 2.546434439 | background   | background   | background   | 3            |
| ENSG00000138119.16 | -1.210223989 | background   | NA           | background   | 3            |
| ENSG00000138347.15 | 2.493273251 | background   | background   | background   | 4            |
| ENSG00000138892.11 | 4.88935226  | NA           | NA           | NA           | 4            |
| ENSG00000139200.13 | 1.129458087 | background   | background   | background   | 4            |
| ENSG00000139287.12 | 1.005868426 | background   | background   | background   | 4            |
| ENSG00000139597.17 | 1.174410352 | background   | background   | background   | 4            |
| ENSG00000139625.12 | 1.065161499 | background   | background   | background   | 4            |
| ENSG00000139626.15 | 2.854567208 | background   | background   | background   | 4            |
| ENSG00000140279.12 | 2.580379828 | background   | background   | background   | 4            |
| ENSG00000140478.15 | 2.476860871 | background   | NA           | background   | 4            |
| ENSG00000140506.16 | 4.007154249 | background   | background   | background   | 4            |
| ENSG00000140986.7  | 1.284913535 | background   | background   | background   | 4            |
| ENSG00000140993.10 | 1.199821299 | NA           | background   | background   | background   |
| ENSG00000141485.16 | 2.341539828 | background   | background   | background   | 4            |
| ENSG00000141505.11 | 1.051938052 | background   | background   | background   | 4            |
| ENSG00000141526.16 | 1.223818186 | NA           | background   | background   | 4            |
| ENSG00000141579.6  | 3.777680495 | background   | background   | background   | 4            |
| ENSG00000141738.13 | 2.160180629 | background   | background   | background   | background   |
| ENSG00000141934.9  | 1.842665889 | background   | background   | background   | 4            |
| ENSG00000142185.16 | 4.159538263 | 4            | background   | background   | 4            |
| ENSG00000142347.16 | 1.165192977 | background   | background   | background   | 4            |
| ENSG00000142511.4  | 4.14430313  | NA           | background   | background   | 4            |
| ENSG00000142513.5  | 1.25937601  | background   | NA           | background   | background   |
| ENSG00000142627.12 | 1.19610896  | background   | background   | background   | 3            |
| ENSG00000142661.18 | 1.653545422 | 4            | background   | background   | 4            |
| ENSG00000142677.3  | 4.26859764  | 4            | background   | background   | 4            |
| ENSG00000143110.11 | 1.074478061 | background   | background   | background   | background   |
| ENSG00000143125.5  | 2.62160549  | NA           | background   | background   | 4            |
| ENSG00000143127.12 | 1.537097349 | background   | background   | background   | background   |
| ENSG00000143217.8  | 1.687177102 | background   | background   | background   | 3            |
| ENSG00000143333.6  | 1.634508983 | background   | background   | background   | background   |
| Gene ID         | Value          | Format | Format | Format | Format |
|----------------|----------------|--------|--------|--------|--------|
| ENSG00000143341.11 | 1.019976135    | background | background | background | 3     |
| ENSG00000143341.11 | 1.019976135    | background | background | background | 3     |
| ENSG00000143502.14 | 1.229121217    | background | background | background | 3     |
| ENSG00000143632.14 | 1.076954759    | background | background | background | 3     |
| ENSG00000143850.13 | 1.588273199    | background | background | background | 3     |
| ENSG00000144010.9  | 5.21567085     | background | NA     | NA     | background |
| ENSG00000144015.4  | 7.488413078    | background | background | background | 3     |
| ENSG00000144452.14 | 1.408942196    | background | background | background | 3     |
| ENSG00000144476.5  | 4.544250994    | background | background | background | 4     |
| ENSG00000144596.12 | 1.464142258    | background | background | background | 4     |
| ENSG00000144821.9  | 1.478370514    | background | background | background | 3     |
| ENSG00000144852.17 | 5.387078311    | background | background | background | 4     |
| ENSG00000145198.14 | 1.56764435     | background | background | background | 4     |
| ENSG00000145224.11 | 1.097190628    | background | NA     | background | 3     |
| ENSG00000145632.14 | 2.088984439    | background | background | background | 4     |
| ENSG00000147041.11 | -1.351232397   | background | background | background | 3     |
| ENSG00000147174.11 | 1.746484736    | background | background | background | 4     |
| ENSG00000147573.16 | 4.920349175    | background | background | background | 3     |
| ENSG00000147576.15 | 1.90879824     | background | background | background | 4     |
| ENSG00000147689.16 | 2.196043696    | background | background | background | 2     |
| ENSG00000148386.9  | 6.846575653    | background | NA     | NA     | 4     |
| ENSG00000148400.9  | 1.306271225    | background | background | background | 3     |
| ENSG00000148677.6  | -3.849580344   | NA       | background | background | 4     |
| ENSG00000148735.14 | 2.643885958    | background | background | background | 4     |
| ENSG00000149043.16 | 4.648342781    | background | background | background | 4     |
| ENSG00000149256.15 | -1.010319862   | background | background | background | 3     |
| ENSG00000149577.15 | 1.554265672    | background | background | background | 3     |
| ENSG00000149591.16 | 1.284908423    | background | background | background | 4     |
| ENSG00000149781.12 | 1.631138726    | background | background | background | 4     |
| ENSG00000150337.13 | 5.221008734    | NA       | background | background | 3     |
| ENSG00000150637.8  | 1.764069984    | background | background | background | 4     |
| ENSG00000150687.11 | -1.115854668   | NA       | background | background | 4     |
| ENSG00000151005.4  | 4.954717672    | NA       | background | background | 4     |
| ENSG00000151360.9  | 8.449954289    | background | background | background | 4     |
| ENSG00000151379.3  | 5.247011235    | NA       | background | background | 4     |
| ENSG00000151650.7  | 1.463791916    | background | background | background | 4     |
| ENSG00000152137.6  | -1.879155438   | background | background | background | 4     |
| ENSG00000152779.13 | 2.253494445    | background | background | background | 4     |
| ENSG00000152953.12 | 3.811363779    | background | background | background | 3     |
| ENSG00000153495.10 | 2.898403637    | background | background | background | 4     |
| ENSG00000154099.17 | 1.615157013    | background | background | background | 4     |
| Gene Symbol | Value | Background | Background | Background | Value |
|-------------|-------|------------|------------|------------|-------|
| ENSG00000154237.12 | 1.299161802 | background | background | background | 3 |
| ENSG00000155026.16 | 1.421159237 | background | background | background | 4 |
| ENSG00000155495.8 | 3.059159133 | background | background | background | 4 |
| ENSG00000156097.12 | 1.144030974 | NA | background | 4 | background | 4 |
| ENSG00000156427.7 | 2.776411401 | background | background | background | 4 |
| ENSG00000157087.17 | 5.06795397 | background | background | background | 3 |
| ENSG00000157227.12 | 1.542354917 | background | background | background | background | 4 |
| ENSG00000157322.17 | 3.252539613 | background | background | background | 4 |
| ENSG00000157559.14 | 3.104843404 | background | background | background | 4 |
| ENSG00000157609.12 | 1.144030974 | NA | background | 4 | background | 4 |
| ENSG00000157765.11 | 1.933217513 | background | background | background | 4 |
| ENSG00000157766.15 | 1.803640744 | background | background | background | 3 |
| ENSG00000158023.9 | 1.473542678 | 4 | background | 4 |
| ENSG00000158133.12 | 3.184576618 | background | background | background | 4 |
| ENSG00000158373.8 | 2.04937311 | NA | background | background | 4 |
| ENSG00000158406.4 | 1.517953247 | NA | background | background | background |
| ENSG00000158458.19 | 1.002224679 | background | NA | NA | background | 4 |
| ENSG00000158486.13 | 1.649591592 | 4 | NA | background | 3 |
| ENSG00000158683.7 | 1.885854801 | background | background | background | 4 |
| ENSG00000159289.6 | 1.752902279 | background | background | background | 4 |
| ENSG00000159307.18 | 1.220263111 | background | background | 3 | background | 3 |
| ENSG00000159388.5 | 1.149252511 | NA | background | background | background |
| ENSG00000159450.12 | 1.499727417 | NA | background | background | background |
| ENSG00000159495.7 | 6.65625013 | background | background | background | 4 |
| ENSG00000160219.11 | 1.20487422 | background | background | 3 | background | 3 |
| ENSG00000160685.13 | 1.517638686 | NA | background | background | 4 |
| ENSG00000160868.14 | 2.46040755 | background | background | background | 4 |
| ENSG00000161270.19 | 3.01144211 | background | NA | background | 4 |
| ENSG00000161405.16 | 1.282410363 | NA | background | background | 4 |
| ENSG00000161509.13 | 1.17347959 | background | background | background | 4 |
| ENSG00000161513.11 | 1.338929181 | background | background | background | background |
| ENSG00000161544.9 | 2.239801212 | background | background | background | 4 |
| ENSG00000161860.7 | 1.07275215 | background | background | background | 4 |
| ENSG00000162066.14 | 1.135887309 | background | background | background | background |
| ENSG00000162267.12 | 1.829421564 | background | background | background | 4 |
| ENSG00000162490.6 | 2.323001896 | background | background | background | 4 |
| ENSG00000162494.5 | 3.220689181 | NA | background | background | 3 |
| ENSG00000162511.7 | 4.036636175 | background | background | background | 4 |
| ENSG00000162594.15 | 4.310248849 | background | background | background | 3 |
| ENSG00000162777.16 | 3.304729158 | background | background | background | 4 |
| ENSG00000162981.13 | 2.821954292 | NA | background | 3 | background | 3 |
| ENSG00000163131.10 | 1.61522633 | background | background | background | 4 |
| Gene ID            | Category | Value 1 | Value 2 | Value 3 | Value 4 |
|-------------------|----------|---------|---------|---------|---------|
| ENSG00000163273.3 |          | 1.034314065 | NA     | background | background |
| ENSG00000163286.8 |          | 4.928448324  | background | background | background |
| ENSG00000163362.10|          | 1.033585566  | background | background | background |
| ENSG00000163435.15|          | 1.612031712  | background | background | background |
| ENSG00000163576.17|          | 1.796663951  | 4        | background | background |
| ENSG00000163793.12|          | 2.890727209  | background | background | background |
| ENSG00000163879.10|          | 1.510595057  | background | background | background |
| ENSG00000164089.8 |          | 1.211842526  | background | background | background |
| ENSG00000164136.16|          | 1.282600198  | 4        | background | background |
| ENSG00000164308.16|          | 1.160248819  | background | background | background |
| ENSG00000164379.6 |          | 4.084617359  | NA      | background | background |
| ENSG00000164591.13|          | 2.74797899   | background | background | background |
| ENSG00000164938.13|          | 1.96573257   | background | background | background |
| ENSG00000165029.15|          | 2.589023382  | background | background | background |
| ENSG00000165164.13|          | 2.085316426  | background | background | background |
| ENSG00000165828.14|          | 1.916938499  | background | background | background |
| ENSG00000165905.17|          | 1.154421765  | background | background | background |
| ENSG00000165917.9 |          | 3.181752898  | background | background | background |
| ENSG00000166049.10|          | 5.202129836  | background | background | background |
| ENSG00000166148.3 |          | 1.735592905  | NA      | background | background |
| ENSG00000166268.10|          | 4.482731584  | background | background | background |
| ENSG00000166405.14|          | 2.199275348  | 4        | background | background |
| ENSG00000166558.10|          | 3.644900627  | NA      | NA        | 3        |
| ENSG00000166592.11|          | 1.715819552  | background | background | background |
| ENSG00000166780.10|          | 1.091733042  | background | background | background |
| ENSG00000166863.11|          | 5.055695117  | background | NA        | 4        |
| ENSG00000167550.10|          | 2.011638158  | background | background | background |
| ENSG00000167601.11|          | 2.282999353  | background | background | background |
| ENSG00000167676.4 |          | 1.861587498  | background | NA        | background |
| ENSG00000167680.15|          | 1.057291641  | background | background | background |
| ENSG00000167711.13|          | 3.108809934  | background | background | background |
| ENSG00000167945.1 |          | 2.101569177  | background | NA        | 3        |
| ENSG00000167992.12|          | 1.020734302  | background | background | background |
| ENSG00000168140.4 |          | 1.261470765  | NA      | background | background |
| ENSG00000168267.6 |          | 3.104134806  | NA      | background | background |
| ENSG00000168314.17|          | 4.551442451  | NA      | background | 3        |
| ENSG00000168348.3 |          | 2.294708182  | NA      | background | background |
| ENSG00000168453.14|          | 1.656637862  | background | 4        | background |
| ENSG00000168477.17|          | 1.146176356  | background | 4        | background |
| ENSG00000168542.14|          | -1.033672981 | background | background | 4        |
| Gene ID                          | Value  | Column 1 | Column 2 | Column 3 | Column 4 | Column 5 |
|---------------------------------|--------|----------|----------|----------|----------|----------|
| ENSG00000168621.14              | 1.071434185 | NA       | background | background | 4        | 4        |
| ENSG00000168878.16              | 1.674271469  | background | background | background | background | 4        |
| ENSG00000168918.13              | 3.516367223  | 4        | background | background | 3        |
| ENSG00000168961.16              | 1.369467771  | background | background | background | 4        |
| ENSG00000169059.12              | 5.108280254  | background | background | 4        |
| ENSG00000169085.11              | 2.038415127  | 4        | background | background | 4        |
| ENSG00000169252.5               | 1.775498042  | NA       | background | 4        |
| ENSG00000169403.11              | 1.019096226  | NA       | background | 4        |
| ENSG00000169885.9               | 3.264781185  | background | background | 4        |
| ENSG00000169896.16              | 5.769448527  | background | background | 4        |
| ENSG00000170059.16              | 2.51221638   | background | background | 4        |
| ENSG00000170075.8               | 1.792492207  | NA       | background | 4        |
| ENSG00000170324.20              | 2.116728558  | 4        | background | 3        |
| ENSG00000170325.14              | 1.556200459  | 4        | background | 4        |
| ENSG00000170468.7               | 5.236313753  | NA       | background | background |
| ENSG00000170482.16              | 2.51221638   | background | background | background |
| ENSG00000170579.16              | 1.766139656  | background | background | 3        |
| ENSG00000170608.2               | 1.228350501  | NA       | background | 4        |
| ENSG00000170835.14              | 1.590276949  | background | background | 4        |
| ENSG00000171124.12              | 2.819893088  | background | background | 4        |
| ENSG00000171219.8               | 2.11060183   | background | NA         | 4        |
| ENSG00000171223.5               | 1.046615392  | NA       | background | 4        |
| ENSG00000171345.13              | 5.813460979  | background | background | 4        |
| ENSG00000171345.13              | 5.813460979  | background | background | 4        |
| ENSG00000171540.7               | 3.048890108  | background | background | 4        |
| ENSG00000171766.15              | 2.054374364  | background | background | 4        |
| ENSG00000171794.3               | 2.896557766  | NA       | background | background |
| ENSG00000171992.12              | 1.277693244  | background | background | 4        |
| ENSG00000172073.3               | 4.506502275  | background | background | background |
| ENSG00000172183.14              | 3.068116055  | NA       | background | background |
| ENSG00000172324.5               | 1.031579474  | NA       | background | background |
| ENSG00000172349.17              | 3.314767992  | background | NA         | 4        |
| ENSG00000172602.9               | 3.048890108  | background | background | 4        |
| ENSG00000172771.11              | 1.467922567  | 4        | background | 4        |
| ENSG00000172794.19              | 2.30026172   | background | background | 3        |
| ENSG00000172803.17              | 2.524326245  | background | background | 4        |
| ENSG00000172969.7               | 5.973363488  | NA       | background | background |
| ENSG00000173200.12              | 1.426005322  | background | background | 4        |
| ENSG00000173285.4               | 1.658840939  | NA       | background | 4        |
| ENSG00000173366.11              | 2.747735085  | background | NA         | background | background |
| Gene       | Value   | Symbol | Type | Value  | Location          |
|------------|---------|--------|------|--------|-------------------|
| ENSG00000173404.4 | 1.418814313 | NA     | background | NA | background | background |
| ENSG00000173597.8 | 1.245128602 | background | background | 3 | background | background |
| ENSG00000173714.7 | 1.762037227 | NA     | background | background | background |
| ENSG00000173838.11 | 1.934730833 | 4 | background | background | 3 |
| ENSG00000173846.12 | 1.207204867 | background | background | 3 |
| ENSG00000174226.8 | 5.713940704 | background | background | 3 |
| ENSG00000174307.6 | 1.35793498 | background | background | 4 |
| ENSG00000174358.15 | 5.589704875 | background | background | 4 |
| ENSG00000174808.11 | 4.5353472 | background | background | 4 |
| ENSG00000174837.14 | 1.541914038 | background | background | 4 |
| ENSG00000174945.13 | 2.224042789 | background | background | 4 |
| ENSG00000174990.4 | 1.201117391 | 3 | background | background | 3 |
| ENSG00000175003.12 | 3.56995736 | background | background | 4 |
| ENSG00000175206.10 | 3.8520578 | NA     | background | background | background |
| ENSG00000175356.12 | 2.179845263 | background | background | 3 |
| ENSG00000175592.8 | 1.689403748 | NA     | background | background | background |
| ENSG00000175820.3 | 2.780689867 | background | background | 4 |
| ENSG00000175894.14 | 1.624779113 | background | background | 4 |
| ENSG00000176720.5 | 1.348791615 | background | background | 3 |
| ENSG00000176769.9 | 3.049384796 | background | background | 3 |
| ENSG00000176887.6 | 2.644186774 | NA     | background | background | 4 |
| ENSG00000176907.4 | -1.463390001 | NA     | background | background | background |
| ENSG00000177076.5 | 1.082123852 | background | background | 4 |
| ENSG00000177106.14 | 1.288977527 | background | background | 3 |
| ENSG00000177201.2 | 1.034094972 | NA     | background | background | background |
| ENSG00000177374.12 | 1.99165893 | NA     | background | background | 4 |
| ENSG00000177483.11 | 1.657830852 | 4 | background | background | 4 |
| ENSG00000177551.5 | 1.880822784 | background | background | 4 |
| ENSG00000177688.6 | 2.719526288 | NA     | background | background | background |
| ENSG00000177807.8 | 2.450611397 | NA     | background | background | 3 |
| ENSG00000178297.12 | 1.320338394 | background | NA     | background | background |
| ENSG00000178467.17 | 2.557284223 | background | background | 4 |
| ENSG00000178623.11 | 1.018072593 | background | background | 4 |
| ENSG00000178690.2 | 2.829761091 | NA     | background | background | background |
| ENSG00000178928.8 | 4.262803646 | background | NA     | background | 3 |
| ENSG00000179023.8 | 3.420674827 | NA     | background | background | background |
| ENSG00000179477.9 | 2.410172089 | background | background | background |
| ENSG00000179520.10 | 5.636761566 | background | background | 4 |
| ENSG00000179583.18 | 1.936192733 | background | background | 4 |
| Gene Symbol | Description | Value | Background | Background | Background |
|-------------|-------------|-------|------------|------------|------------|
| ENSG00000179674.3 | -4.126247809 | NA | background | background | background |
| ENSG00000179698.13 | 1.464819508 | background | background | 3 | 3 |
| ENSG00000179698.13 | 1.464819508 | background | background | 3 | 3 |
| ENSG00000179772.7 | 5.183498521 | NA | background | background | background |
| ENSG0000018043.11 | 4.717756578 | background | background | 4 | 4 |
| ENSG00000180532.10 | 6.649409005 | background | background | background | background |
| ENSG00000180573.9 | 1.635211339 | NA | background | background | background |
| ENSG00000180596.7 | 1.96776553 | NA | background | background | background |
| ENSG00000180626.9 | 1.032742889 | NA | background | background | background |
| ENSG00000180828.2 | 4.34529543 | NA | background | background | background |
| ENSG00000181013.3 | 4.80852214 | NA | background | background | background |
| ENSG00000181215.14 | 1.73253221 | 4 | background | background | 3 |
| ENSG00000181291.7 | 1.051644623 | background | background | background | 3 |
| ENSG00000181392.14 | 2.116605831 | background | background | background | background |
| ENSG00000181408.3 | 1.039307003 | NA | background | background | background |
| ENSG00000181444.12 | 1.468904307 | background | background | 4 | 4 |
| ENSG00000181649.5 | 1.199090018 | NA | background | background | background |
| ENSG00000181982.18 | 4.338169864 | background | background | background | 3 |
| ENSG00000182083.7 | 4.26785881 | NA | background | background | background |
| ENSG0000018218.9 | 1.879237521 | background | background | 3 | 3 |
| ENSG00000182230.11 | 2.526101553 | background | background | 4 | 4 |
| ENSG00000182308.6 | 1.331880656 | NA | background | background | background |
| ENSG00000182326.14 | 1.311483817 | background | background | 4 | 4 |
| ENSG00000182459.4 | 3.357148363 | NA | background | background | background |
| ENSG00000182492.15 | 2.750270482 | background | 4 | background | 4 |
| ENSG00000182580.2 | 1.168440159 | background | background | 4 | 4 |
| ENSG00000182687.3 | 2.033978669 | NA | background | background | 4 |
| ENSG00000182759.3 | 1.92011035 | NA | NA | background | 4 |
| ENSG00000182869.10 | 1.629407852 | background | background | 4 | 4 |
| ENSG00000183508.4 | 1.010534877 | NA | background | background | 4 |
| ENSG00000183644.13 | 3.454509628 | background | NA | background | 2 |
| ENSG00000183791.4 | 7.196678254 | NA | background | NA | 4 |
| ENSG00000183813.6 | 2.300398347 | NA | background | background | background |
| ENSG00000184163.3 | 2.428590498 | background | background | background | background |
| ENSG00000184254.16 | 1.634319995 | 4 | background | background | 4 |
| ENSG00000184351.7 | -1.738536891 | NA | background | background | background |
| ENSG00000184434.7 | 1.927837098 | background | background | background | background |
| ENSG00000184678.10 | 1.831258906 | NA | background | 4 | 4 |
| ENSG00000184697.6 | 3.255774367 | NA | background | background | background |
| ENSG00000184786.5 | 1.001290595 | NA | background | background | 3 |
| ENSG00000184956.15 | 1.782349751 | background | background | background | 4 |
| Gene ID       | Value          | Background | Background | Background | 4  | 3  |
|--------------|----------------|------------|------------|------------|----|----|
| ENSG00000184985.16 | 4.661211104    | background | background | background | 3  |    |
| ENSG00000185070.10  | -1.39901699    | NA         | background | background | 4  | 3  |
| ENSG00000185247.14  | 3.014881389    | background | background | background | 3  |    |
| ENSG00000185269.11  | 2.443341914    | background | background | background |    |    |
| ENSG00000185271.7   | 2.035463927    | background | NA         | NA         | background |    |
| ENSG00000185291.11  | 1.576420401    | background | background | background | 4  |    |
| ENSG00000185338.4   | 1.798070948    | background | background | background |    |    |
| ENSG00000185527.11  | 4.128236923    | background | background | background |    |    |
| ENSG00000185792.9   | 4.015061476    | background | background | background |    |    |
| ENSG00000185974.6   | 4.90055706     | background | background | background |    |    |
| ENSG00000185988.12  | 2.051569219    | background | background | background |    |    |
| ENSG00000186115.12  | 3.04380547     | background | background | background |    |    |
| ENSG00000186517.13  | 1.527650615    | background | background | background |    |    |
| ENSG00000186529.15  | 3.548232484    | background | background | background |    |    |
| ENSG00000186642.15  | 2.460664122    | background | background | background |    |    |
| ENSG00000186854.10  | 1.286208146    | background | background | background |    |    |
| ENSG00000186973.10  | 1.864260405    | background | NA         | background |    |    |
| ENSG00000186994.11  | 1.348331925    | background | background | background |    |    |
| ENSG00000187017.15  | 4.698297302    | background | background | background |    |    |
| ENSG00000187026.2   | -3.400769687   | NA         | background | background |    |    |
| ENSG00000187045.16  | 1.229852547    | background | background | background |    |    |
| ENSG00000187720.14  | 1.09996576     | background | background | background |    |    |
| ENSG00000187726.8   | 1.337622574    | background | background | background |    |    |
| ENSG00000187837.3   | 1.841866396    | NA         | NA         | background |    |    |
| ENSG00000187867.8   | 1.606006212    | background | NA         | background |    |    |
| ENSG00000187902.11  | 1.917678946    | background | NA         | background |    |    |
| ENSG00000188037.10  | 3.39558689     | background | background | background |    |    |
| ENSG00000188316.13  | -1.10329615    | background | background | background |    |    |
| ENSG00000188483.7   | 1.620942176    | NA         | background | background |    |    |
| ENSG00000188676.13  | 2.760385317    | background | background | background |    |    |
| ENSG00000188738.14  | 1.079703903    | NA         | background | background |    |    |
| ENSG00000188766.12  | 1.489627435    | background | background | background |    |    |
| ENSG00000188886.3   | 4.026899376    | background | NA         | NA         |    |    |
| ENSG00000188981.10  | 1.81861647     | background | background | background |    |    |
| ENSG00000189001.10  | 2.994492804    | background | background | background |    |    |
| ENSG00000189057.10  | 1.086144962    | background | background | background |    |    |
| ENSG00000189253.7   | 5.657540276    | background | NA         | background |    |    |
| ENSG00000196109.6   | 4.622410758    | NA         | background | background |    |    |
| ENSG00000196337.11  | 2.16913808     | NA         | background | background |    |    |
| ENSG00000196754.10  | 2.094821098    | background | background | background |    |    |
| Gene ID        | Distance to TSS (kb) | Expression | Status 1 | Status 2 | Status 3 | Status 4 |
|---------------|---------------------|------------|----------|----------|----------|----------|
| ENSG00000196787.3 | 2.564534875          | NA         | background | background | background | background |
| ENSG00000196890.4 | 1.546640716          | NA         | background | background | background | background |
| ENSG00000196946.10 | 3.70320788           | background | background | background | background | background |
| ENSG00000196954.13 | 2.803892583          | 4          | background | background | background | background |
| ENSG00000196999.38 | 1.20641788           | background | background | background | background | background |
| ENSG00000197044.10 | 1.61576616           | background | background | background | background | background |
| ENSG00000197093.10 | 2.460576289          | background | background | background | background | background |
| ENSG00000197153.4  | 3.69661897           | NA         | NA       | NA       | background | background |
| ENSG00000197177.15 | 5.06945784           | background | background | background | background | background |
| ENSG00000197410.12 | 1.40378975           | background | NA       | background | background | background |
| ENSG00000197558.11 | 1.950330265          | background | NA       | background | background | background |
| ENSG00000197653.15 | 1.09240661           | 4          | background | background | background | background |
| ENSG00000197852.9  | 1.258323201          | NA         | background | background | background | background |
| ENSG00000197859.9  | 5.186402679          | 4          | 4        | 4        | background | background |
| ENSG00000197903.7  | 1.555377083          | NA         | NA       | NA       | background | background |
| ENSG00000197921.5  | 4.524775618          | background | background | background | background | background |
| ENSG00000198028.3  | 5.618411599          | background | background | background | background | background |
| ENSG00000198133.8  | 1.665485191          | background | background | background | background | background |
| ENSG00000198156.10 | 2.082746957          | background | background | background | background | background |
| ENSG00000198342.5  | 3.101762             | background | background | background | background | background |
| ENSG00000198483.12 | 4.151993668          | 4          | background | background | background | background |
| ENSG00000198535.5  | 2.032736752          | NA         | background | background | background | background |
| ENSG00000198573.6  | 4.8732526            | NA         | background | background | background | background |
| ENSG00000198576.3  | 1.573164621          | background | background | background | background | background |
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| ENSG00000198892.6  | 1.661464004          | background | background | background | background | background |
| ENSG00000198939.7  | 1.399201036          | background | background | background | background | background |
| ENSG00000203811.1  | 2.509353828          | NA         | background | background | background | background |
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| ENSG00000203814.6  | 1.612908971          | NA         | background | background | background | background |
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| ENSG00000204532.6  | 5.434838273          | background | NA       | NA       | background | background |
| ENSG00000204909.7  | 1.745247466          | background | background | background | background | background |
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| Gene ID          | Value       | Category | Description | Value       | Category | Description |
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| ENSG00000205277.9 | 6.073218957 | background | NA          | background  | background |
| ENSG00000205336.11 | 1.8067641  | background | background  | background  | background |
| ENSG00000205678.7 | 1.767059367 | background | background  | background  | background |
| ENSG00000205710.3 | 1.679476244 | background | NA          | background  | background |
| ENSG00000205832.7 | 1.323600572 | background | NA          | background  | background |
| ENSG00000205922.4 | 1.318779093 | background | 4           | background  | 4          |
| ENSG00000206150.3 | 4.79802465 | background | background  | background  | background |
| ENSG00000206172.8 | 2.091765211 | background | background  | background  | background |
| ENSG00000212643.2 | 1.571109228 | background | NA          | background  | background |
| ENSG00000213398.7 | 1.7129050385 | background | background  | background  | background |
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| ENSG00000214814.7 | 4.184247241 | background | background  | background  | background |
| ENSG00000214866.8 | 4.715755312 | background | background  | background  | background |
| ENSG00000214897.4 | 2.840480964 | background | NA          | background  | background |
| ENSG00000214944.9 | 1.3459965   | background | background  | background  | background |
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| ENSG00000221821.3 | -1.218162802 | background | background  | background  | background |
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| ENSG00000223547.9 | 1.436141339 | background | background  | 4           | 4          |
| ENSG00000223573.6 | 2.18069247 | background | background  | background  | 4          |
| ENSG00000223638.3 | 2.347000763 | background | NA          | 4           | 4          |
| ENSG00000223658.7 | -1.246850793 | NA         | background  | background  | background |
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| ENSG00000229544.8 | 1.032620569 | NA         | background  | background  | background |
| ENSG00000229579.4 | 6.084390175 | NA         | NA          | background  | background |
| ENSG00000230268.3 | 3.822787062 | NA         | NA          | background  | background |
| ENSG00000230430.4 | 6.084390175 | NA         | NA          | background  | background |
| ENSG00000232237.3 | 1.703527771 | NA         | background  | background  | background |
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| ENSG00000233822.4 | 1.779349854 | NA | background | background |
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| ENSG00000235568.6 | 2.70294142 | background | background | background |
| ENSG00000238269.8 | 3.11718409 | background | background | background |
| ENSG00000242220.6 | 1.118579485 | background | background | background |
| ENSG00000242265.5 | 2.00162299 | NA | background | background |
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| ENSG00000244242.1 | 2.029786355 | NA | background | background |
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| ENSG00000248167.7 | 1.292501274 | background | background | background |
| ENSG0000024933.2 | 4.66591081 | NA | NA | NA | background |
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| ENSG00000249931.4 | 1.64516219 | background | NA | NA | 3 |
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| ENSG00000250673.2 | 1.023962861 | 4 | background | background | 4 |
| ENSG00000250745.2 | 6.320620842 | NA | NA | NA | background |
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| ENSG00000253304.1 | 1.61172904 | NA | background | 4 | 4 |
| ENSG00000254415.3 | 2.870277749 | background | background | background | 4 |
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| ENSG00000256162.2 | 3.56670357 | NA | background | background | 4 |
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| ENSG00000258465.6 | -3.641038964 | background | background | background | 4 |
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| ENSG00000259399.1 | 1.23217071 | background | background | background | 4 |
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| ENSG00000260325.1 | 1.423856845 | NA | background | background | background |
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| ENSG00000261308.2 | 1.740451884 | NA | background | background | background |
| ENSG00000265817.2 | -1.598913786 | background | NA | NA | 4 |
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| ENSG00000267041.5 | 1.398135651 | background | background | background | background |
| Gene ID    | Value     | Annotation | Annotation | Annotation | Annotation |
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| ENSG00000268089.2 | 1.24610432 | background | 4 | background | 4 | 4 |
| ENSG00000268655.2 | 1.649922589 | background | background | background | background |
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| ENSG00000269502.5 | 3.617239866 | background | background | background | 4 |
| ENSG00000270882.2 | 1.988304748 | NA | background | background | 4 |
| ENSG00000274286.1 | 2.991953168 | NA | background | background | 3 |
| ENSG00000274290.2 | 2.386602836 | NA | background | background | background |
| ENSG00000274559.3 | 1.490242255 | NA | background | background | background |
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| ENSG00000275793.1 | 1.382212874 | NA | background | background | 4 | 4 |
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| ENSG00000276180.1 | 1.309019264 | NA | background | background | background |
| ENSG00000276966.2 | 1.725344887 | NA | background | background | background |
| ENSG00000277399.4 | 1.524740556 | background | background | background | background |
| ENSG00000277639.2 | 2.195007121 | background | background | 3 | 3 |
| ENSG00000277745.1 | 2.725033375 | NA | background | background | background |
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| ENSG00000282804.1 | 4.165634025 | background | NA | background | 4 |
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| ENSG00000284561.1 | 5.227630276 | NA | NA | NA | background |
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| ENSG00000004838.13 | 1.688178974 | background | background | 5 | 5 |
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| ENSG00000005243.9 | 1.655964172 | background | background | 5 | 5 |
| ENSG00000005379.15 | 2.778969048 | 5 | background | background | 4 |
| ENSG00000005981.12 | 1.52971682 | background | background | 5 | 4 |
| ENSG00000006327.13 | -1.399911638 | NA | background | background | background |
| ENSG00000006756.15 | 1.31850576 | 5 | background | 5 | 4 |
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| ENSG000000010282.14 | 4.649764116   | background | background | 5     |
| ENSG000000010327.10 | 1.92862435    | 3    | background | 3     |
| ENSG000000010379.15 | 4.649718917   | background | background | 4     |
| ENSG000000010671.15 | 2.672687626   | background | background | 5     |
| ENSG000000010704.18 | 3.270025125   | NA   | background | 5     |
| ENSG000000012779.10 | 2.592505214   | background | background | 4     |
| ENSG000000014914.20 | 1.835044565   | background | background | 5     |
| ENSG000000015520.14 | 2.382040296   | background | background | 5     |
| ENSG000000015582.14 | 3.79756254    | 5    | background | 5     |
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| ENSG000000028277.21 | 2.495396913   | background | background | 5     |
| ENSG000000034971.16 | 5.844394779   | NA   | background | 5     |
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| ENSG000000042493.15 | -1.152860705  | 5    | background | 5     |
| ENSG000000042832.11 | 4.197101793   | 5    | background | 3     |
| ENSG000000046774.9  | 3.546118289   | background | background | 4     |
| ENSG000000047648.21 | 3.209338113   | 5    | background | 4     |
| ENSG000000047662.4  | 1.387021029   | background | background | 4     |
| ENSG000000049769.12 | 1.381896416   | background | background | 4     |
| ENSG000000050628.20 | 1.488844224   | NA   | background | 4     |
| ENSG000000052344.15 | 2.196526029   | 5    | background | 5     |
| ENSG000000053108.16 | 2.336595999   | background | background | 4     |
| ENSG000000057468.6  | 1.955343172   | background | background | 4     |
| ENSG000000057657.15 | 2.775797845   | background | background | 5     |
| ENSG000000058335.15 | 1.90166956    | 5    | background | 3     |
| ENSG000000059378.12 | 3.000248988   | 5    | background | 5     |
| ENSG000000060558.3  | 2.725925897   | background | background | 5     |
| ENSG000000064300.8  | 1.110932243   | background | background | 5     |
| ENSG000000064886.13 | 3.634434364   | 5    | background | 4     |
| ENSG000000065361.14 | 1.954734358   | 5    | background | 4     |
| ENSG000000066336.11 | 2.090816438   | 5    | background | 5     |
| ENSG000000067066.16 | 1.06336832   | background | background | 3     |
| ENSG000000067842.17 | 2.403716435   | 5    | background | 4     |
| ENSG000000068079.7  | 1.349973146   | background | background | 5     |
| Gene ID          | Log2 Fold Change | Background | Background |
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| ENSG00000069018.17 | 5.402628448     | 5          | background |
| ENSG00000069764.9  | 2.245131165     | 5          | background |
| ENSG00000069812.11 | 1.94847119      | 5          | background |
| ENSG00000069869.15 | 1.013516735     | 5          | background |
| ENSG00000070019.4  | 4.378858043     | 5          | background |
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| ENSG00000070915.9  | 5.757041837     | 5          | background |
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| ENSG00000072080.10 | 2.069171264     | 5          | background |
| ENSG00000072952.18 | 2.609199542     | 5          | background |
| ENSG00000074276.10 | 3.525765747     | 5          | background |
| ENSG00000075461.5  | 2.966409757     | 5          | background |
| ENSG00000075884.13 | 1.206648026     | 5          | background |
| ENSG00000077009.13 | 3.07006039      | 5          | background |
| ENSG00000077327.15 | 3.255313491     | 5          | background |
| ENSG00000078795.16 | 1.802599467     | 5          | background |
| ENSG00000078814.15 | 1.195742857     | 5          | background |
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| ENSG00000080031.9  | 2.470102981     | 5          | background |
| ENSG00000081148.11 | 3.998211777     | 5          | background |
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| ENSG00000081665.13 | 1.026097394     | 5          | background |
| ENSG00000081853.14 | 2.92946975      | 5          | background |
| ENSG00000081923.11 | 1.255849908     | 5          | background |
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| ENSG00000083454.21 | 3.683055407     | 5          | background |
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| ENSG00000086967.9  | 3.420153694     | 4          | background |
| ENSG00000087237.10 | 5.509822513     | 5          | background |
| ENSG00000087245.12 | 2.011391553     | 5          | background |
| Ensembl ID | Gene ID | Expression Value | Background 1 | Background 2 | Background 3 | Background 4 | Background 5 |
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| ENSG00000087589.16 | 3.796944932 | background | background | background | 5 |
| ENSG00000088053.11 | 2.18843721 | background | background | background | 5 |
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| ENSG00000090238.11 | 1.00238413 | background | background | background | 5 |
| ENSG00000091106.18 | 1.133981782 | background | background | background | 5 |
| ENSG00000091128.12 | 2.733008153 | 5 | background | background | 4 |
| ENSG00000091138.12 | 3.41907207 | background | background | background | 4 |
| ENSG00000091181.19 | 3.780472017 | background | background | background | 5 |
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| ENSG00000091831.23 | 4.469251821 | background | background | background | 4 |
| ENSG00000092051.16 | 2.751724361 | background | background | background | 5 |
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| ENSG00000092929.11 | 1.385479484 | background | background | background | 5 |
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| ENSG00000095587.8 | 1.226593762 | background | background | background | 4 |
| ENSG00000095637.21 | 1.05097775 | NA | NA | background | 4 |
| ENSG00000099139.13 | 1.556422437 | background | background | background | 4 |
| ENSG00000099365.10 | 1.158931849 | background | background | background | 4 |
| ENSG00000099769.5 | 2.240128889 | NA | background | background | 5 |
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| ENSG00000100311.18 | 1.40753935 | background | background | background | 4 |
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| ENSG00000101306.10 | 2.613814911 | background | background | background | 5 |
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| ENSG00000102287.18 | 2.74 | background | 5 | background |
| ENSG00000102349.17 | 1.19 | background | 5 | background |
| ENSG00000102383.13 | 1.17 | background | 5 | background |
| ENSG00000102890.14 | 1.75 | background | 5 | background |
| ENSG00000103175.10 | 1.44 | background | 5 | background |
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| ENSG00000103740.9 | 2.33 | background | 5 | background |
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| ENSG00000105967.15 | 3.73 | background | 5 | background |
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| ENSG00000105996.6 | 1.73 | background | 5 | background |
| ENSG00000106258.13 | 1.40 | background | 5 | background |
| ENSG00000106328.9 | 1.81 | background | 5 | background |
| ENSG00000106624.10 | 2.11 | background | 5 | background |
| ENSG00000106819.11 | 3.29 | background | 5 | background |
| ENSG00000106823.12 | 2.40 | background | 5 | background |
| Gene ID          | Log2 Fold Change | Status   | Background Count |
|-----------------|-----------------|----------|------------------|
| ENSG00000106991.13 | 1.709298361     | background | 5                |
| ENSG00000107187.15 | 1.780901335     | background | 5                |
| ENSG00000107742.12 | 1.630999354     | 5         | 5                |
| ENSG00000107796.13 | 1.676052239     | background | 5                |
| ENSG00000108242.12 | 3.92691408      | background | 5                |
| ENSG00000108352.11 | 1.253103563     | background | 5                |
| ENSG00000108551.4 | 2.305362628     | NA       | 4                |
| ENSG00000108771.12 | 2.569419978     | background | 5                |
| ENSG00000109063.14 | 1.877330196     | 5         | 5                |
| ENSG00000109399.20 | 1.251031053     | 4         | 4                |
| ENSG00000109832.13 | 1.375892658     | 5         | 4                |
| ENSG00000109927.9 | 1.148418414     | NA       | NA               |
| ENSG00000110076.18 | 1.089618633     | 5         | 4                |
| ENSG00000110876.9 | 3.119849834     | NA       | 5                |
| ENSG00000111181.12 | 2.521616504     | background | 4                |
| ENSG00000111344.11 | 2.029025596     | background | 4                |
| ENSG00000111713.2 | 1.799253771     | 5         | background | 4                |
| ENSG00000111834.12 | 1.115450106     | background | 5                |
| ENSG00000111860.13 | 1.004323551     | background | 5                |
| ENSG00000111886.10 | 2.233006156     | background | 4                |
| ENSG00000111913.17 | 1.99343287     | background | 4                |
| ENSG00000112053.13 | 1.961544679     | background | 3                |
| ENSG00000112116.9 | 7.671074602     | background | 5                |
| ENSG00000112486.15 | 3.984575903     | background | 5                |
| ENSG00000112499.12 | 3.944548746     | 5         | background | 4                |
| ENSG00000112619.7 | 2.230906108     | background | 5                |
| ENSG00000112818.9 | 5.326224284     | background | 5                |
| ENSG00000113262.14 | 2.647189896     | 5         | background | 4                |
| ENSG00000113172.13 | 3.699152407     | 5         | background | 4                |
| ENSG00000113905.4 | 2.876458097     | background | 5                |
| ENSG00000113924.11 | 2.296968194     | background | 4                |
| ENSG00000114124.2 | 2.68493013      | background | 4                |
| ENSG00000114204.14 | 4.838515263     | background | 5                |
| ENSG00000114349.9 | 4.304482552     | background | 5                |
| ENSG00000114378.16 | 1.646242601     | NA       | background | 4                |
| ENSG00000114455.13 | 2.537506031     | 5         | background | 4                |
| ENSG00000115266.11 | 2.118949415     | background | 4                |
| ENSG00000115297.10 | 2.844969298     | background | 5                |
| ENSG00000115705.20 | 2.713743835     | 5         | background | 4                |
| Gene Symbol | 5 Base | Background |
|-------------|--------|------------|
| ENSG00000115718.17 | 1.982847966 | 5 background |
| ENSG00000115850.9 | 5.936748671 | 5 background |
| ENSG00000115919.14 | 1.146110823 | 5 background |
| ENSG00000116254.17 | 1.796649161 | 5 background |
| ENSG00000116299.16 | 1.906654718 | 5 background |
| ENSG00000116726.4 | 5.066051161 | NA background |
| ENSG00000116745.6 | 4.962272592 | 5 background |
| ENSG00000116748.21 | 4.544506513 | 5 background |
| ENSG00000117215.14 | 2.350681514 | 5 background |
| ENSG00000117425.13 | 1.083101676 | 5 background |
| ENSG00000117601.13 | 2.611737032 | 5 background |
| ENSG00000117971.11 | 1.60967951 | 5 background |
| ENSG00000118004.17 | 1.57894324 | 5 background |
| ENSG00000118137.9 | 1.94877684 | 5 background |
| ENSG00000118194.18 | 2.859717856 | 5 background |
| ENSG00000118298.10 | 1.916037956 | 5 background |
| ENSG00000118322.12 | 1.989862623 | 5 background |
| ENSG00000118514.13 | 1.409219178 | 5 background |
| ENSG00000118520.14 | 1.59037845 | 5 background |
| ENSG00000118729.11 | 2.224562865 | 5 background |
| ENSG00000118898.15 | 3.562717285 | 5 background |
| ENSG00000119121.21 | 1.46051519 | 4 background |
| ENSG00000119283.15 | 2.188454547 | NA background |
| ENSG00000119608.12 | 2.217475088 | NA background |
| ENSG00000119630.13 | 1.599474269 | 5 background |
| ENSG00000119681.11 | 1.802340925 | 5 background |
| ENSG00000119714.10 | 2.882796467 | NA background |
| ENSG00000119737.5 | 1.674037634 | 5 background |
| ENSG00000119915.4 | 7.62972459 | 5 background |
| ENSG00000120094.6 | 4.838327669 | 5 background |
| ENSG00000120156.20 | 3.52161603 | 5 background |
| ENSG00000120329.6 | 4.20537376 | 5 background |
| ENSG00000120332.15 | 2.726324921 | 5 background |
| ENSG00000120659.14 | 5.016281156 | 5 background |
| ENSG00000120669.15 | 2.54082333 | 5 background |
| ENSG00000120885.21 | -1.162527884 | 5 background |
| ENSG00000120949.14 | 1.395120122 | 5 background |
| ENSG00000121053.5 | 1.390115479 | 5 background |
| ENSG00000121075.9 | 1.84253996 | 5 background |
| ENSG00000121101.15 | 1.311140515 | 4 background |
| ENSG00000121577.13 | 1.889744943 | 5 background |
| Gene          | Value     | Background | Background | Background | Value     |
|---------------|-----------|------------|------------|------------|-----------|
| ENSG00000121594.11 | 2.904719263 | background | background | background | 5         |
| ENSG00000121905.9 | 2.192488361 | background | background | background | 5         |
| ENSG00000122122.9 | 4.54247319  | background | background | background | 5         |
| ENSG00000122432.17 | 1.388421519 | background | background | background | 5         |
| ENSG00000122728.6 | 4.486642583 | NA         | background | background | 4         |
| ENSG00000122861.15 | 1.370970012 | background | background | background | 5         |
| ENSG00000122862.4 | 2.23395674  | background | background | background | 5         |
| ENSG00000122877.15 | 1.333885436 | NA         | background | background | 4         |
| ENSG00000123405.13 | 2.302232057 | background | background | background | 5         |
| ENSG00000123901.8 | 2.743350956 | background | background | background | 5         |
| ENSG00000124019.9 | 4.421998107 | NA         | background | background | 3         |
| ENSG00000124103.8 | 2.03758293  | NA         | background | background | 5         |
| ENSG00000124216.3 | 2.630859227 | NA         | background | background | 5         |
| ENSG00000124429.17 | 1.722695423 | background | background | background | 4         |
| ENSG00000124635.8 | 2.846006154 | NA         | NA         | NA         | 5         |
| ENSG00000124657.1 | 2.570924139 | NA         | NA         | NA         | background |
| ENSG00000124762.13 | 1.597993441 | NA         | background | background | 4         |
| ENSG00000124772.11 | 2.937792507 | 4         | background | background | 3         |
| ENSG00000124818.15 | 5.72181489  | background | background | background | 4         |
| ENSG00000124942.13 | 1.484885721 | background | background | background | 5         |
| ENSG00000125337.16 | 2.075237521 | background | background | background | 5         |
| ENSG00000125414.18 | 4.614825993 | 5         | background | background | 4         |
| ENSG00000125780.11 | 4.364099356 | 5         | background | background | 5         |
| ENSG00000125872.7 | 4.578430367 | background | background | background | 4         |
| ENSG00000125998.7 | 4.590694368 | background | background | background | 5         |
| ENSG00000126231.13 | 1.8969092  | background | background | background | 5         |
| ENSG00000126353.3 | 4.583786469 | background | background | background | 5         |
| ENSG00000126550.8 | 1.276507571 | background | background | background | 5         |
| ENSG00000126562.16 | 1.689767102 | 5         | background | background | 5         |
| ENSG00000126895.13 | 3.037785094 | NA         | background | background | 5         |
| ENSG00000127129.9 | 4.608973116 | background | background | background | 5         |
| ENSG00000127325.18 | 1.694612958 | background | background | background | 4         |
| ENSG00000127364.3 | 1.375418502 | NA         | background | background | 5         |
| ENSG00000127507.17 | 1.332502627 | background | background | background | 5         |
| ENSG00000127530.3 | 1.837277459 | NA         | background | background | 4         |
| ENSG00000127578.6 | 1.679902914 | NA         | background | background | 5         |
| ENSG00000127831.10 | 2.591190712 | 5         | background | background | 5         |
| ENSG00000127954.12 | 1.474027437 | background | background | background | 5         |
| ENSG00000128242.12 | 2.667790468 | NA         | background | background | 5         |
| ENSG00000128285.4 | 4.627610787 | NA         | background | background | 5         |
| Gene ID          | Value       | Background 1 | Background 2 | Background 3 | Background 4 | Background 5 |
|-----------------|-------------|--------------|--------------|--------------|--------------|--------------|
| ENSG00000128342.4 | 2.899470382 | background   | background   |              |              |              |
| ENSG00000128917.6 | 1.457784948 | background   | background   |              |              |              |
| ENSG00000129048.6 | 1.437719451 | NA           | background   |              |              |              |
| ENSG00000129204.16 | 1.07891764  | S            | S            | background   |              |              |
| ENSG00000129226.13 | 4.729797432 | background   | background   | background   |              |              |
| ENSG00000129244.8 | 1.095335684 | background   | background   |              |              |              |
| ENSG00000129467.13 | 3.800183708 | background   | background   |              |              |              |
| ENSG00000129654.7 | 2.924232487 | background   | background   |              |              |              |
| ENSG00000130045.15 | 1.146688166 | NA           | background   |              |              |              |
| ENSG00000130052.13 | 1.065267886 | S            | background   |              |              |              |
| ENSG00000130055.13 | 2.861560693 | background   | background   |              |              |              |
| ENSG00000130182.7 | 2.459735686 | S            | S            | background   |              |              |
| ENSG00000130203.9 | 1.418365098 | background   | background   |              |              |              |
| ENSG00000130222.10 | 3.321364791 | S            | background   |              |              |              |
| ENSG00000130270.16 | 1.811121297 | S            | background   |              |              |              |
| ENSG00000130283.8 | -1.391415144 | background   | background   |              |              |              |
| ENSG00000130368.5 | 1.965231511 | NA           | background   |              |              |              |
| ENSG00000130377.13 | 1.758444871 | S            | background   |              |              |              |
| ENSG00000130383.7 | 4.052218465 | NA           | background   |              |              |              |
| ENSG00000130513.6 | 3.628677275 | NA           | background   |              |              |              |
| ENSG00000130518.16 | 1.666327554 | background   | background   |              |              |              |
| ENSG00000130561.16 | 3.088269631 | S            | background   |              |              |              |
| ENSG00000130595.18 | 5.131251705 | background   | background   |              |              |              |
| ENSG00000130653.15 | 1.03365352  | background   | background   |              |              |              |
| ENSG00000130783.13 | 3.262538688 | S            | background   |              |              |              |
| ENSG00000130844.16 | 1.494387431 | S            | S            | background   |              |              |
| ENSG00000130943.6 | 1.422366469 | NA           | background   |              |              |              |
| ENSG00000130948.9 | 4.608700581 | background   | background   |              |              |              |
| ENSG00000130958.11 | 3.429447674 | background   | background   |              |              |              |
| ENSG00000130988.12 | 2.31777839  | S            | background   |              |              |              |
| ENSG00000131044.16 | 2.554798915 | S            | background   |              |              |              |
| ENSG00000131080.14 | 2.444373335 | background   | background   |              |              |              |
| ENSG00000131096.10 | 2.432720129 | background   | background   |              |              |              |
| ENSG00000131269.15 | -1.025708261 | S            | background   |              |              |              |
| ENSG00000131379.9 | 1.730287679 | S            | background   |              |              |              |
| ENSG00000131471.6 | 2.344396093 | background   | background   |              |              |              |
| ENSG00000131480.8 | 1.603778084 | background   | background   |              |              |              |
| ENSG00000131482.9 | 3.194282103 | background   | background   |              |              |              |
| ENSG00000131864.10 | 5.430712217 | background   | background   |              |              |              |
| ENSG00000131914.10 | 1.970850441 | background   | background   |              |              |              |
| Gene ID  | Log2 Fold Change | Significance | Background | Color |
|---------|-----------------|--------------|------------|-------|
| ENSG00000132000.11 | 2.623989985 | 5 | background | background |
| ENSG00000132274.15 | 1.549550586 | background | background | background |
| ENSG00000132297.11 | 1.457785936 | 5 | background | background |
| ENSG00000132334.16 | 1.71838318 | 5 | background | background |
| ENSG00000132561.13 | 1.814556767 | NA | background | background |
| ENSG00000132698.14 | 2.350110933 | 5 | background | background |
| ENSG00000132718.8 | 1.763475569 | 5 | background | background |
| ENSG00000132718.18 | 5.646392418 | 4 | background | background |
| ENSG00000132718.16 | 1.448370566 | 4 | background | background |
| ENSG00000132360.18 | -1.160625066 | background | background | background |
| ENSG00000133166.12 | 2.680518894 | NA | background | background |
| ENSG00000133958.13 | 1.699236578 | 5 | background | background |
| ENSG00000133962.7 | 1.431106239 | 5 | background | background |
| ENSG00000133416.11 | -1.018104638 | 5 | background | background |
| ENSG00000133424.15 | 2.750854122 | 5 | background | background |
| ENSG00000133424.15 | 1.121047925 | background | background | background |
| ENSG00000133421.11 | 4.598564206 | background | background | background |
| ENSG00000133436.11 | 1.911234492 | NA | background | background |
| ENSG00000133439.14 | 4.092180336 | 5 | background | background |
| ENSG00000133463.14 | 7.193778175 | background | background | background |
| ENSG00000133489.6 | 2.002623053 | 5 | background | background |
| ENSG00000133451.15 | 5.149198803 | 5 | background | background |
| ENSG00000133453.19 | -1.139929759 | background | background | background |
| ENSG00000133459.16 | 1.602981691 | background | background | background |
| ENSG00000133454.13 | 2.385365104 | background | background | background |
| ENSG00000133457.10 | 4.768472002 | 5 | background | background |
| ENSG00000133457.11 | 1.073019611 | background | background | background |
| ENSG00000133481.10 | 4.86911277 | NA | background | background |
| ENSG00000133490.13 | 1.058282157 | NA | background | background |
| ENSG00000133496.26 | 2.600325573 | background | background | background |
| ENSG00000133506.13 | -1.809735329 | 5 | background | background |
| ENSG00000133524.15 | 6.824225904 | 3 | background | background |
| ENSG00000133518.11 | 1.324304267 | background | background | background |
| ENSG00000133506.13 | 1.41532543 | background | background | background |
| ENSG00000133540.10 | 1.595123899 | background | NA | background |
| ENSG00000133542.12 | 1.69960878 | background | background | background |
| Gene ID     | Value      | Background | Background | Background | Count |
|------------|------------|------------|------------|------------|-------|
| ENSG00000135519.6 | 1.498655978 | background | background | background | 5     |
| ENSG00000135636.13 | 1.053790184 | background | background | background | 5     |
| ENSG00000135698.9 | -1.047734026 | background | background | background | 5     |
| ENSG00000135824.12 | 6.540730049 | background | background | NA         | 4     |
| ENSG00000135835.11 | 1.31201663  | 5          | background | 5          | 5     |
| ENSG00000135960.9 | 2.602004356 | background | background | background | 4     |
| ENSG00000136099.13 | 1.610303308 | background | background | background | 5     |
| ENSG00000136274.8 | 1.651980484 | background | background | background | 5     |
| ENSG00000136286.14 | 4.243424139 | 5          | background | background | 4     |
| ENSG00000136383.6 | 2.262022748 | 4          | background | 3          | 3     |
| ENSG00000136535.14 | 3.12328961  | background | background | 5          | 5     |
| ENSG00000136872.17 | 3.672485126 | 5          | background | background | 5     |
| ENSG00000136881.11 | 3.168851966 | background | background | background | 5     |
| ENSG00000136931.9 | 2.865260806 | background | background | 4          | 4     |
| ENSG00000137225.12 | 4.907190843 | background | background | background | 4     |
| ENSG00000137331.11 | 1.711706366 | NA         | background | background | background |
| ENSG00000137434.11 | 1.0095762   | background | background | background | 5     |
| ENSG00000137460.8 | 1.613532008 | background | background | 5          | 4     |
| ENSG00000137501.17 | 1.258417901 | background | background | background | 5     |
| ENSG00000137648.17 | 1.859913276 | background | background | background | 4     |
| ENSG00000137767.13 | 1.834121978 | background | background | background | 4     |
| ENSG00000137809.16 | 1.479405927 | 5          | background | 5          | 4     |
| ENSG00000137843.11 | 1.524290145 | 5          | background | background | 3     |
| ENSG00000137868.18 | 2.499274148 | background | background | background | 4     |
| ENSG00000137877.9 | 2.679926582 | 5          | background | background | 4     |
| ENSG00000137877.9 | 2.679926582 | background | background | background | 4     |
| ENSG00000137976.7 | 5.283703382 | background | background | 5          | 5     |
| ENSG00000138079.13 | 1.859896617 | background | background | background | 4     |
| ENSG00000138100.13 | 2.364635572 | background | background | background | 3     |
| ENSG00000138109.9 | 2.288620388 | 5          | background | background | 5     |
| ENSG00000138161.13 | 1.858693483 | background | 5          | background | 4     |
| ENSG00000138347.15 | 1.976250029 | 5          | background | background | 4     |
| ENSG00000138356.13 | 3.962296282 | 5          | background | 5          | 4     |
| ENSG00000138623.9 | 1.062270339 | 5          | background | 5          | 5     |
| ENSG00000138892.11 | 4.937896399 | 4          | NA         | NA         | 4     |
| ENSG00000138964.16 | 2.174043762 | background | background | 5          | 4     |
| ENSG00000139278.9 | 1.409625313 | background | background | background | 5     |
| ENSG00000139287.12 | 1.589778794 | background | background | background | 4     |
| ENSG00000139289.13 | 1.438766809 | NA         | background | 4          | 4     |
| ENSG00000139344.7 | 1.009791846 | background | background | background | 5     |
| ENSG00000139572.3 | 3.445719016 | NA         | background | background | 5     |
| gene_id                  | expression | background | type | 5 | 4 |
|--------------------------|------------|------------|------|---|---|
| ENSG00000139597.17       | 2.41835898 | background |      | 5 | 4 |
| ENSG00000139625.12       | 1.64535602 | background |      | 5 | 4 |
| ENSG00000139626.15       | 3.185297101| background |      | 5 | 4 |
| ENSG00000139865.16       | 1.73436922 | NA         |      | 4 | 5 |
| ENSG00000140107.10       | 4.356560187| background |      | 5 | 4 |
| ENSG00000140287.10       | 4.212040924| background |      | 5 | 5 |
| ENSG00000140368.12       | 2.256462194| background |      | 4 | 5 |
| ENSG00000140403.12       | 1.321865758| background |      | 5 | 5 |
| ENSG00000140478.15       | 3.00700307 | background |      | 5 | 5 |
| ENSG00000140506.16       | 4.493405254| background |      | 4 | 5 |
| ENSG00000140675.12       | 1.069168366| background |      | 5 | 5 |
| ENSG00000140795.12       | 1.597535503| background |      | 5 | 5 |
| ENSG00000140798.15       | 4.144301519| background |      | 4 | 5 |
| ENSG00000140839.11       | 2.199220514| background |      | 5 | 5 |
| ENSG00000140993.10       | 1.0039148  | background |      | 5 | 5 |
| ENSG00000141371.12       | 3.982011222| background |      | 5 | 5 |
| ENSG00000141437.8        | 4.43783807 | background |      | 4 | 5 |
| ENSG00000141485.16       | 2.372264552| background |      | 5 | 5 |
| ENSG00000141505.11       | 1.47868843 | background |      | 4 | 5 |
| ENSG00000141526.16       | 2.156015206| background |      | 4 | 5 |
| ENSG00000141579.6        | 3.270734389| background |      | 5 | 5 |
| ENSG00000141738.13       | 2.712373134| background |      | 5 | 5 |
| ENSG00000141934.9        | 2.231775188| background |      | 4 | 5 |
| ENSG00000142185.16       | 3.178247752| background |      | 4 | 5 |
| ENSG00000142347.16       | 1.079649364| background |      | 4 | 5 |
| ENSG00000142511.4        | 4.30550099 | background |      | 4 | 5 |
| ENSG00000142513.5        | 1.367483324| background |      | 5 | 5 |
| ENSG00000142583.17       | 1.711816663| background |      | 4 | 5 |
| ENSG00000142661.18       | 2.283311705| background |      | 4 | 5 |
| ENSG00000142677.3        | 3.782005281| background |      | 5 | 5 |
| ENSG00000142871.16       | -1.071991272| background |      | 5 | 5 |
| ENSG00000143107.8        | 3.191714492| background |      | 5 | 5 |
| ENSG00000143110.11       | 2.415396523| background |      | 5 | 5 |
| ENSG00000143125.5        | 2.879502654| NA         |      | 5 | 5 |
| ENSG00000143127.12       | 2.837759308| background |      | 5 | 5 |
| ENSG00000143217.8        | 1.935341471| background |      | 5 | 5 |
| ENSG00000143278.3        | 2.320770615| background |      | 4 | 5 |
| ENSG00000143297.18       | 1.458918919| background |      | 4 | 5 |
| ENSG00000143333.6        | 1.640559129| background |      | 5 | 5 |
| ENSG00000143344.15       | 1.0976153  | background |      | 4 | 5 |
| ENSG00000143369.14       | 1.418535322| background |      | 4 | 5 |
| Gene ID               | Value        | 5 | background | background | 5 |
|----------------------|--------------|---|------------|------------|---|
| ENSG0000014382.14    | 1.199246832  | 5 | background | background | 5 |
| ENSG00000143552.9    | 3.333632593  | 4 | background | background | 4 |
| ENSG00000143595.12   | 4.435618272  | 5 | background | background | 5 |
| ENSG00000143632.14   | 2.02219705   | 5 | background | background | 5 |
| ENSG00000143768.12   | 3.735229659  | background | background | background | background |
| ENSG00000143839.14   | 4.789175715  | 5 | background | background | 4 |
| ENSG00000143850.13   | 3.049659478  | 5 | background | background | 3 |
| ENSG00000143921.6    | 3.675087657  | 5 | background | background | 4 |
| ENSG00000144010.9    | 4.89463912   | 5 | background | NA         | 5 |
| ENSG00000144015.4    | 7.13834544   | 5 | background | background | 5 |
| ENSG00000144476.5    | 4.714583868  | NA | background | 5         | 4 |
| ENSG00000144550.12   | 1.834261791  | background | background | background | 5 |
| ENSG00000144596.12   | 1.04213905   | background | background | 5         | 4 |
| ENSG00000144668.11   | 1.589370994  | 4 | background | background | 3 |
| ENSG00000144671.10   | 4.827463983  | 5 | background | background | 4 |
| ENSG00000144821.9    | 2.624698762  | 5 | background | background | 4 |
| ENSG00000144852.17   | 5.35040359   | 5 | background | background | 4 |
| ENSG00000145040.3    | 2.31982017   | NA | background | background | background |
| ENSG00000145198.14   | 1.929747159  | background | background | 5         |
| ENSG00000145244.11   | 1.796716101  | background | NA         | background | 4 |
| ENSG00000145632.14   | 2.188322969  | 4 | background | background | 4 |
| ENSG00000146021.14   | 1.066837486  | 5 | background | background | 3 |
| ENSG00000146453.12   | 3.749025537  | background | background | 5         |
| ENSG00000146755.10   | 4.786536367  | background | background | 5         |
| ENSG00000146809.12   | 5.401431889  | 5 | background | background | 4 |
| ENSG00000146839.18   | 2.616955487  | 5 | background | background | 4 |
| ENSG00000147041.11   | -1.241954627 | 5 | background | background | 4 |
| ENSG00000147113.16   | 3.277513218  | background | background | 4         | 4 |
| ENSG00000147117.7    | 1.067459065  | background | background | 4         |
| ENSG00000147160.9    | 4.111176433  | 5 | background | background | 5 |
| ENSG00000147166.10   | 1.711095556  | background | background | 5         |
| ENSG00000147174.11   | 3.1275767    | 5 | background | background | 4 |
| ENSG00000147465.11   | 2.380805778  | background | background | 5         |
| ENSG00000147573.16   | 3.947557543  | background | background | 3         |
| ENSG00000147576.15   | 1.926656905  | background | background | 5         | 5 |
| ENSG00000147655.10   | 2.480794347  | 5 | background | 5         |
| ENSG00000147689.16   | 2.658745011  | 5 | background | 5         | 3 |
| ENSG00000147873.5    | 4.864423493  | NA | background | 5         | 5 |
| ENSG00000148082.9    | 2.481363872  | background | background | 5         | 4 |
| ENSG00000148156.7    | 3.726676423  | NA | background | background | 5 |
| ENSG00000148377.5    | 4.956076347  | background | background | 5         |
| Gene          | Log2 Fold Change | Background Type | Expression Level | Parental Line  |
|--------------|-----------------|----------------|-----------------|---------------|
| ENSG00000148386.9 | 4.640006817     | background     | NA              | NA            |
| ENSG00000148400.9 | 1.15401429      | background     | 4               | background    |
| ENSG00000148482.11 | 5.620997251     | background     | 5               | background    |
| ENSG00000148483.8 | 1.399148519     | background     | 5               | background    |
| ENSG00000148604.13 | 1.791884392     | background     | 5               | background    |
| ENSG00000148677.6 | -3.339036677    | NA             | 5               | background    |
| ENSG00000148735.14 | 3.105561203     | background     | 5               | background    |
| ENSG00000148795.6 | 3.322813325     | background     | 5               | background    |
| ENSG00000148826.8 | 4.511334404     | background     | 5               | background    |
| ENSG00000149243.15 | 2.73804754      | background     | 5               | background    |
| ENSG00000149418.10 | 1.356813644     | background     | 5               | background    |
| ENSG00000149506.11 | 3.2556105       | background     | 5               | background    |
| ENSG00000149564.11 | 1.211979643     | background     | 5               | background    |
| ENSG00000149577.15 | 1.742305748     | background     | 5               | background    |
| ENSG00000149591.16 | 1.80120638      | background     | 5               | background    |
| ENSG00000149781.12 | 3.372598232     | background     | 5               | background    |
| ENSG00000150337.13 | 6.37416044      | background     | 4               | background    |
| ENSG00000150594.6 | 3.20736982      | background     | 5               | background    |
| ENSG00000150637.8 | 2.741749554     | background     | 4               | background    |
| ENSG00000150687.11 | -1.0230931      | NA             | 5               | background    |
| ENSG00000151005.4 | 5.57170303      | background     | 5               | background    |
| ENSG00000151360.9 | 8.464506436     | 4              | background     | 4             |
| ENSG00000151379.3 | 4.896858762     | NA             | 4               | background    |
| ENSG00000151475.5 | 3.66509603      | background     | 4               | background    |
| ENSG00000151655.18 | 2.50521406      | background     | 5               | background    |
| ENSG00000151687.14 | 1.29663969      | 5              | background     | 4             |
| ENSG00000151715.7 | 1.682785897     | background     | 4               | background    |
| ENSG00000152049.6 | 1.390319755     | NA             | 5               | background    |
| ENSG00000152137.6 | -1.802691638    | 5              | background     | 5             |
| ENSG00000152377.13 | 1.61850966      | 5              | background     | 3             |
| ENSG00000152430.17 | 3.404470854     | background     | 5               | background    |
| ENSG00000152433.14 | 2.222398504     | 5              | background     | 5             |
| ENSG00000152689.17 | 1.292524787     | 5              | 5               | 4             |
| ENSG00000152779.13 | 2.385448547     | background     | 4               | background    |
| ENSG00000152926.14 | 1.150581426     | background     | 5               | background    |
| ENSG00000152953.12 | 4.963899489     | background     | 5               | background    |
| ENSG00000153291.15 | -1.017530019    | 5              | 5               | 5             |
| ENSG00000153292.15 | 1.171953003     | background     | 4               | background    |
| ENSG00000153294.11 | 4.452965687     | background     | 4               | background    |
| ENSG00000153495.10 | 4.020327371     | background     | 4               | background    |
| ENSG00000154099.17 | 1.666425256     | 5              | background     | 5             |
| Gene ID          | Value    | Background | Background | Background | Background |
|-----------------|----------|------------|------------|------------|------------|
| ENSG00000158683.7 | 3.342468776 | background | background | background | 4          |
| ENSG00000158865.12 | 1.703324405 | background | background | background | 5          |
| ENSG00000159251.6 | 3.39534646 | S          | S          | S          | S          |
| ENSG00000159289.6 | 2.78963576 | background | background | 5          | 5          |
| ENSG00000159388.5 | 1.348771319 | background | background | background | background |
| ENSG00000159450.12 | 1.100936689 | NA         | NA         | background | background |
| ENSG00000159495.7 | 7.02775785 | 5          | background | background | 5          |
| ENSG00000159588.14 | 2.165256925 | background | background | background | 5          |
| ENSG00000160219.11 | 1.318482942 | 5          | background | 4          | 4          |
| ENSG00000160307.9 | 2.273047389 | background | background | background | 5          |
| ENSG00000160505.15 | 3.355971769 | background | background | background | 4          |
| ENSG00000160685.13 | 1.191160419 | NA         | background | background | 5          |
| ENSG00000160868.14 | 2.901851337 | background | background | background | 5          |
| ENSG00000161180.10 | 1.172065191 | background | background | background | 5          |
| ENSG00000161381.13 | 1.177539792 | 5          | background | 5          | 4          |
| ENSG00000161405.16 | 1.29046123 | NA         | background | 5          | 4          |
| ENSG00000161509.13 | 1.513203898 | background | background | 5          | 5          |
| ENSG00000161513.11 | 1.117567858 | 5          | background | background | 5          |
| ENSG00000161544.9 | 2.277348934 | 5          | background | background | 5          |
| ENSG00000161551.14 | 1.2383907 | 5          | background | background | 4          |
| ENSG00000161798.6 | 5.07288468 | NA         | background | background | 5          |
| ENSG00000161860.7 | 1.391489977 | background | background | background | 5          |
| ENSG00000161905.12 | 3.479409321 | background | background | background | 5          |
| ENSG00000162039.14 | 3.480534615 | background | background | background | 5          |
| ENSG00000162078.11 | 4.741795024 | background | background | background | 5          |
| ENSG00000162105.17 | 1.706668907 | 5          | background | 4          | 3          |
| ENSG00000162267.12 | 2.876637843 | background | background | background | 5          |
| ENSG00000162490.6 | 2.221855869 | 5          | background | background | 4          |
| ENSG00000162511.7 | 3.578863713 | background | background | 5          | 4          |
| ENSG00000162594.15 | 5.330151231 | background | background | background | 4          |
| ENSG00000162641.18 | 3.207453975 | background | background | background | 5          |
| ENSG00000162654.8 | 1.24174069 | 4          | background | background | 4          |
| ENSG00000162753.11 | 3.482746174 | background | background | background | 4          |
| ENSG00000162771.7 | 6.610383645 | NA         | background | background | 5          |
| ENSG00000162777.16 | 4.064599277 | background | background | background | 5          |
| ENSG00000162944.10 | 1.195580246 | background | background | background | 4          |
| ENSG00000162981.13 | 2.091899603 | NA         | background | 4          | 4          |
| ENSG00000163106.10 | 4.999608207 | background | background | background | 4          |
| ENSG00000163131.10 | 2.291063723 | background | background | background | 4          |
| ENSG00000163141.18 | 2.067343451 | 5          | background | background | 5          |
| ENSG00000163263.6 | 2.927983819 | background | background | background | 5          |
| Chromosome start-end | Expression | Myc      | Background | Background |
|----------------------|------------|----------|------------|------------|
| ENSG00000163286.8    | 4.118087659| background| background | background |
| ENSG00000163431.12  | 1.182619946| NA       | background | background |
| ENSG00000163435.15  | 3.143205757| background| 5          | background |
| ENSG00000163464.7   | 4.868760042| NA       | background | background |
| ENSG00000163576.17  | 2.139134604| 5         | background | background |
| ENSG00000163631.16  | 1.783657976| background| background | background |
| ENSG00000163687.13  | 2.681470173| background| background | background |
| ENSG00000163701.18  | 2.209025212| background| background | background |
| ENSG00000163792.6   | 2.236741013| NA       | background | background |
| ENSG00000163793.12  | 3.036181521| background| background | background |
| ENSG00000163806.15  | 1.539791609| background| background | background |
| ENSG00000163810.11  | 2.260461725| 5         | background | background |
| ENSG00000163814.7   | 2.817780687| background| background | background |
| ENSG00000163815.5   | 1.627787079| NA       | background | background |
| ENSG00000163817.15  | 2.834522548| background| background | 5          |
| ENSG00000163879.10  | 3.274527973| background| background | 5          |
| ENSG00000163993.6   | 2.852121986| NA       | 5          | background |
| ENSG00000164082.14  | 2.799332691| background| background | 5          |
| ENSG00000164125.15  | 1.786412931| background| background | 4          |
| ENSG00000164175.14  | 2.346780713| 5         | background | background |
| ENSG00000164304.15  | 3.418829902| background| background | 4          |
| ENSG00000164309.14  | 1.552145914| 5         | background | background |
| ENSG00000164379.6   | 3.893948435| NA       | background| background |
| ENSG00000164393.8   | 3.650264423| background| background | 5          |
| ENSG00000164404.8   | 1.046590667| background| background| background |
| ENSG00000164430.15  | 2.409584944| background| background | 5          |
| ENSG00000164463.12  | 1.031667197| background| background | 5          |
| ENSG00000164591.13  | 4.080116495| background| background | 5          |
| ENSG00000164690.7   | 2.402675171| background| background | 5          |
| ENSG00000164691.16  | 2.399080974| 5         | background | background |
| ENSG00000164692.17  | 1.962971304| background| background | 4          |
| ENSG00000164938.13  | 1.560482694| background| background | 5          |
| ENSG00000164972.12  | 2.766554876| background| 5          | background |
| ENSG00000165029.15  | 2.061658956| 5         | background | background |
| ENSG00000165794.9   | 2.693598563| background| background | 5          |
| ENSG00000165805.9   | 1.134425923| 5         | background | background |
| ENSG00000165841.9   | 6.819049225| 5         | background | background |
| ENSG00000165917.9   | 5.636065342| background| background | 5          |
| ENSG00000165923.15  | 4.821223277| background| background | 5          |
| ENSG00000166049.10  | 5.058118841| 5         | background | background |
| ENSG00000166268.10  | 5.899156661| 5         | background | background |
| Gene ID          | Value            | Background | Value | Background |
|-----------------|------------------|------------|-------|------------|
| ENSG00000166405.14 | 3.091939431      | background | background | 5         |
| ENSG00000166444.18 | 1.066517871      | background | background | 4         |
| ENSG00000166558.10 | 3.776274507      | background | NA     | 4         |
| ENSG00000166573.5  | 1.377127019      | NA         | NA     | 5         |
| ENSG00000166689.15 | 1.291883842      | background | background | 4         |
| ENSG00000166743.9  | 4.556375643      | background | background | 5         |
| ENSG00000166819.11 | 2.310351645      | background | background | 4         |
| ENSG00000166825.13 | 1.921283837      | background | background | 5         |
| ENSG00000166863.11 | 6.290254189      | background | NA     | 5         |
| ENSG00000166866.12 | 2.435566847      | background | background | 3         |
| ENSG00000167077.12 | 1.942945315      | background | background | 4         |
| ENSG00000167195.7  | 3.780701731      | NA         | NA     | 5         |
| ENSG00000167483.17 | 1.273166268      | S         | 5      | background | 4         |
| ENSG00000167550.10 | 1.551951481      | background | background | background | 5         |
| ENSG00000167555.13 | 1.239824076      | background | background | background | 5         |
| ENSG00000167601.11 | 2.075570964      | background | background | background | 5         |
| ENSG00000167654.17 | 2.948455702      | background | background | 3         |
| ENSG00000167676.4  | 1.285424919      | background | NA     | background | 5         |
| ENSG00000167705.11 | 1.658456807      | background | background | background | 5         |
| ENSG00000167711.13 | 3.472807369      | background | background | background | 5         |
| ENSG00000167723.14 | 1.777366459      | background | background | background | 4         |
| ENSG00000167785.8  | 1.608668066      | background | background | background | 4         |
| ENSG00000167880.7  | 3.661155306      | background | background | background | 5         |
| ENSG00000167992.12 | 1.782567027      | background | background | background | 5         |
| ENSG00000168060.15 | 2.815835427      | background | background | background | 5         |
| ENSG00000168131.4  | 5.315151871      | NA         | background | background | 5         |
| ENSG00000168267.6  | 3.430688165      | NA         | background | background | background | 5         |
| ENSG00000168314.17 | 6.062137275      | NA         | background | 3         |
| ENSG00000168427.8  | 2.110202508      | 5         | background | 4         |
| ENSG00000168477.17 | 1.586075065      | background | background | background | 5         |
| ENSG00000168490.13 | 2.844048314      | background | background | 5         |
| ENSG00000168621.14 | 1.056537922      | NA         | background | 4         |
| ENSG00000168878.16 | 3.032407546      | background | background | 5         |
| ENSG00000168918.13 | 3.325705268      | 5         | background | 3         |
| ENSG00000169064.12 | 1.63514431       | 5         | 5      | background | 4         |
| ENSG00000169085.11 | 2.490477949      | 5         | background | 4         |
| ENSG00000169252.5  | 1.308790676      | NA         | background | 4         |
| ENSG00000169288.17 | -1.187515894     | 5         | background | 3         |
| ENSG00000169327.5  | 1.346533214      | NA         | background | background | 5         |
| ENSG00000169402.15 | 1.860288136      | 5         | background | background | 5         |
| ENSG00000169403.11 | 1.935810795      | NA         | background | background | 4         |
| Gene ID       | Value       | Column 1 | Column 2 | Column 3 | Column 4 |
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| ENSG00000169495.4 | 1.056875717 | background | background | background | background |
| ENSG00000169896.16 | 5.818492383 | background | background | background | 4         |
| ENSG00000169994.18 | 4.357087784 | 5         | background | background | 4         |
| ENSG00000170074.19 | 3.312780698 | NA        | background | background | 5         |
| ENSG00000170091.10 | 5.15679669  | background | background | background | 4         |
| ENSG00000170122.5 | 1.121329456 | NA        | background | background | 5         |
| ENSG00000170128.4 | 5.293292099 | NA        | background | background | 5         |
| ENSG00000170324.20 | 1.820079424 | 5         | background | background | 3         |
| ENSG00000170325.14 | 1.356247684 | 5         | background | background | 4         |
| ENSG00000170458.13 | 1.565434867 | NA        | background | background | 5         |
| ENSG00000170468.7 | 5.132595138 | NA        | background | background | background |
| ENSG00000170482.16 | 4.280661355 | background | background | background | 5         |
| ENSG00000170498.8 | 5.619464985 | NA        | background | background | 5         |
| ENSG00000170579.16 | 2.106255031 | 5         | background | background | 3         |
| ENSG00000170667.14 | 1.39394637  | 5         | background | background | 4         |
| ENSG00000170807.11 | 2.732561074 | NA        | background | background | 5         |
| ENSG00000170835.14 | 1.860872095 | background | background | background | 5         |
| ENSG00000171094.17 | 5.65643953  | 5         | background | background | 3         |
| ENSG00000171115.3 | 4.82005551  | background | background | background | 5         |
| ENSG00000171124.12 | 2.837736312 | 5         | background | background | 4         |
| ENSG00000171219.8 | 1.000014758 | 5         | NA        | background | 4         |
| ENSG00000171291.8 | 1.534131953 | background | background | 5         | 5         |
| ENSG00000171345.13 | 5.509942965 | NA        | background | background | background |
| ENSG00000171345.13 | 5.509942965 | background | background | background | background |
| ENSG00000171345.9 | 1.725583968 | background | background | background | 3         |
| ENSG00000171522.5 | 1.89907337  | background | background | background | 5         |
| ENSG00000171540.7 | 3.209707781 | background | background | background | background |
| ENSG00000171561.4 | 1.288028646 | NA        | background | background | 5         |
| ENSG00000171595.13 | 4.657791954 | background | background | 5         | 5         |
| ENSG00000171649.11 | 1.546343863 | background | background | background | background |
| ENSG00000171747.8 | 1.699147231 | background | background | background | 4         |
| ENSG00000171766.15 | 2.443606243 | background | background | background | 5         |
| ENSG00000171794.3 | 2.498889024 | NA        | background | background | background |
| ENSG00000171931.12 | 1.781149358 | 5         | background | background | 5         |
| ENSG00000171989.5 | 4.333437031 | NA        | background | background | 5         |
| ENSG00000171992.12 | 1.330398538 | background | background | 5         | 5         |
| ENSG00000172061.8 | 3.234742533 | NA        | background | background | 5         |
| ENSG00000172073.3 | 4.179724744 | background | background | background | 5         |
| ENSG00000172146.2 | 1.56072359  | NA        | NA        | NA        | 5         |
| ENSG00000172183.14 | 4.026757697 | NA        | 5         | background | 5         |
| Ensembl ID | Gene ID | Value       | Feature 1 | Feature 2 | Feature 3 | Feature 4 | Feature 5 |
|------------|---------|-------------|-----------|-----------|-----------|-----------|-----------|
| ENSG00000172209.5 | 5 | 2.238113261 | background | background | background | 5         | background |
| ENSG00000172232.9 | 5 | 5.786455195 | background | background | background | 5         | background |
| ENSG00000172296.12 | 5 | 1.410494736 | background | background | background | 5         | background |
| ENSG00000172324.5 | 5 | 1.514862864 | NA        | background | background | 5         | background |
| ENSG00000172349.17 | 5 | 3.109230145 | background | NA        | NA        | 4         | background |
| ENSG00000172361.5 | 5 | 1.559865835 | background | background | background | 4         | background |
| ENSG00000172403.10 | 5 | 1.333880194 | 4         | background | 5         | 4         | background |
| ENSG00000172543.7 | 5 | 2.189979782 | background | background | background | 5         | background |
| ENSG00000172602.9 | 5 | 1.095310877 | background | background | background | 5         | background |
| ENSG00000172667.10 | 5 | 1.071398981 | background | background | background | 5         | background |
| ENSG00000172742.5 | 5 | 1.312596395 | NA        | NA        | NA        | 5         | background |
| ENSG00000172771.11 | 5 | 2.013971594 | 5         | background | background | 5         | background |
| ENSG00000172794.19 | 5 | 2.1584932   | background | background | background | 3         | background |
| ENSG00000172803.17 | 5 | 2.264306898 | background | background | background | 4         | background |
| ENSG00000172818.9 | 5 | 4.999643673 | background | background | background | 4         | background |
| ENSG00000172824.14 | 5 | 2.767815398 | background | background | background | 4         | background |
| ENSG00000172901.19 | 5 | 2.648774279 | background | background | background | 4         | background |
| ENSG00000172940.11 | 5 | 4.695484409 | 5         | background | background | 5         | background |
| ENSG00000172969.7 | 5 | 6.057097666 | NA        | background | background | background | background |
| ENSG00000173077.14 | 5 | 1.476997951 | background | 5         | background | 4         | background |
| ENSG00000173124.14 | 5 | 2.826507375 | background | background | background | 4         | background |
| ENSG00000173198.5 | 5 | 1.574680361 | NA        | background | background | 5         | background |
| ENSG00000173200.12 | 5 | 1.731609268 | background | background | background | 4         | background |
| ENSG00000173212.4 | 5 | 1.289750801 | 5         | background | 5         | 5         | background |
| ENSG00000173250.2 | 5 | 6.227729691 | NA        | background | background | 5         | background |
| ENSG00000173269.13 | 5 | 1.630643573 | background | 5         | background | 5         | background |
| ENSG00000173285.4 | 5 | 2.174271326 | NA        | background | background | 4         | background |
| ENSG00000173366.11 | 5 | 3.324106717 | background | NA        | background | 5         | background |
| ENSG00000173404.4 | 5 | 1.6943689 | NA        | background | background | 5         | background |
| ENSG00000173421.16 | 5 | 3.64818314 | background | background | background | 4         | background |
| ENSG00000173451.6 | 5 | 1.106479457 | background | background | background | 5         | background |
| ENSG00000173530.5 | 5 | 1.224480672 | 5         | background | background | 5         | background |
| ENSG00000173567.14 | 5 | 2.044180204 | background | background | background | 4         | background |
| ENSG00000173575.20 | 5 | 1.777758244 | 5         | background | 5         | 4         | background |
| ENSG00000173585.15 | 5 | 4.489061357 | background | background | background | 5         | background |
| ENSG00000173597.8 | 5 | 2.077438439 | background | background | background | 3         | 3         | background |
| ENSG00000173626.9 | 5 | 1.253825143 | background | background | background | 4         | background |
| ENSG00000173702.7 | 5 | 6.114634432 | background | background | background | 4         | background |
| ENSG00000173714.7 | 5 | 2.405075529 | NA        | background | 5         | 5         | background |
| ENSG00000173728.10 | 5 | 3.328975764 | background | 5         | background | 3         | background |
| Gene ID                  | Ensembl ID | Expression |
|-------------------------|------------|------------|
| ENSG00000173809.17      | 5          | 2.802342269|
| ENSG00000173825.6       | 5          | 1.026351142|
| ENSG00000173846.12      | 5          | 1.113289371|
| ENSG00000173947.13      | 5          | 1.672673063|
| ENSG00000173976.15      | 5          | 2.687535408|
| ENSG00000174226.8       | 4          | 7.500551784|
| ENSG00000174307.6       | 4          | 1.30264353  |
| ENSG00000174358.15      | 4          | 5.71943701  |
| ENSG00000174527.9       | 5          | 2.165993048|
| ENSG00000174567.7       | 5          | 5.281112735|
| ENSG00000174600.13      | 5          | 3.842737156|
| ENSG00000174791.10      | 4          | 2.42865135  |
| ENSG00000174808.11      | 5          | 4.463949643|
| ENSG00000174837.14      | 5          | 2.991978383|
| ENSG00000174844.14      | 5          | 2.682682375|
| ENSG00000174898.15      | 4          | 2.166713327|
| ENSG00000174945.13      | 4          | 2.94935023  |
| ENSG00000174990.4       | 4          | 1.38355299  |
| ENSG00000175003.12      | 4          | 4.155605416|
| ENSG00000175105.6       | 4          | 1.21006048  |
| ENSG00000175202.3       | 5          | 2.514054414|
| ENSG00000175206.10      | 5          | 3.03110038  |
| ENSG00000175267.14      | 4          | 2.032153832|
| ENSG00000175318.11      | 4          | 2.850026839|
| ENSG00000175356.12      | 4          | 4.000367828|
| ENSG00000175592.8       | 5          | 1.511589719|
| ENSG00000175820.3       | 4          | 3.95601234  |
| ENSG00000175894.14      | 5          | 1.593104257|
| ENSG00000175985.9       | 5          | 1.031567474|
| ENSG00000176160.10      | 5          | 4.470308089|
| ENSG00000176198.3       | 5          | 2.866836092|
| ENSG00000176219.3       | 5          | 4.809543454|
| ENSG00000176381.5       | 5          | 4.73470283  |
| ENSG00000176402.5       | 5          | 2.362100976|
| ENSG00000176601.12      | 4          | 4.759298562|
| ENSG00000176695.7       | 4          | 1.121323156|
| ENSG00000176720.5       | 5          | 1.25399085  |
| ENSG00000176746.6       | 5          | 1.505751611|
| ENSG00000176769.9       | 3          | 2.773271315|
| ENSG00000176798.2       | 5          | 2.039808306|
| Gene          | Log2FoldChange | p.Value | Adjusted p.Value | Expression Background | Gene          | Log2FoldChange | p.Value | Adjusted p.Value | Expression Background |
|--------------|--------------|---------|-----------------|----------------------|--------------|--------------|---------|-----------------|----------------------|
| ENSG00000176945.16 | 1.724123521  | background | background | background | ENSG00000176971.3   | -1.015047854 | NA     | background | background |
| ENSG00000177076.5   | 1.55079438   | background | background | background | ENSG00000177096.8   | 2.319471659   | background | background | background |
| ENSG00000177106.14  | 1.337886699  | 5        | background | background | ENSG00000177201.2  | 1.732329031  | NA     | background | background |
| ENSG00000177202.2   | 4.530505827  | NA       | background | background | ENSG00000177238.13  | 1.172401932  | 5      | background | background |
| ENSG00000177238.13  | 1.172401932  | NA       | background | background | ENSG00000177347.12  | 1.247616917  | NA     | background | background |
| ENSG00000177347.12  | 1.247616917  | NA       | background | background | ENSG00000177374.12  | 6.880930553  | background | background | background |
| ENSG00000177432.6   | 3.322006661  | NA       | background | background | ENSG00000177483.11  | 1.919906452  | 5      | background | background |
| ENSG00000177551.5   | 1.879104301  | NA       | background | background | ENSG00000177688.6   | 2.698399242  | NA     | background | background |
| ENSG00000177746.3   | 4.83642896   | NA       | background | background | ENSG00000177836.3   | -2.590298894 | NA     | background | background |
| ENSG00000177827.12  | 1.593175374  | NA       | background | background | ENSG000001778460.17  | 1.282375013  | NA     | background | background |
| ENSG000001778467.17 | 4.512573746  | NA       | background | background | ENSG000001778690.2   | 2.641498168  | NA     | background | background |
| ENSG00000177873.5   | 4.091044976  | NA       | background | background | ENSG000001778814.16  | 4.120184066  | 5      | background | background |
| ENSG00000177902.8   | 3.007579511  | NA       | background | background | ENSG000001779242.15  | 1.286401435  | NA     | background | background |
| ENSG000001779520.10 | 6.880930553  | NA       | background | background | ENSG000001779583.18  | 2.32892494  | NA     | background | background |
| ENSG000001779636.14 | 4.83642896   | NA       | background | background | ENSG000001779674.3   | -2.590298894 | NA     | background | background |
| ENSG000001779698.13 | 1.817763047  | NA       | background | background | ENSG000001779772.7   | 5.661698431  | NA     | background | background |
| ENSG000001779921.14 | 2.599778803  | NA       | background | background | ENSG00000180043.11  | 4.875563999  | 5      | background | background |
| ENSG000001800210.14 | 5.909588042  | NA       | background | background | ENSG00000180347.13   | 1.939019549  | 4      | background | background |
| ENSG00000180353.10  | 2.898795284  | NA       | background | background | ENSG00000180481.10  | 1.332821415  | NA     | background | background |
| Gene ID         | Value 1 | Value 2 | Value 3 | Value 4 | Value 5 |
|----------------|---------|---------|---------|---------|---------|
| ENSG00000180582.10 | 7.205373561 | background | background | background | 5 |
| ENSG00000180573.9  | 2.384225135 | NA      | background | background | 5 |
| ENSG00000180596.7  | 2.598061357 | NA      | background | background | background |
| ENSG00000180626.9  | 1.48962018  | NA      | background | background | 5 |
| ENSG00000180638.17 | 2.203159887 | background | background | background | 3 |
| ENSG00000180828.2  | 3.688394448 | NA      | background | background | background |
| ENSG00000180934.6  | 1.436536838 | NA      | 5         | background | 5 |
| ENSG00000181013.3  | 4.976693886 | NA      | background | background | background |
| ENSG00000181016.9  | 1.053464063 | NA      | background | 5         | 5 |
| ENSG00000181031.15 | -1.097391343 | background | background | background | 4 |
| ENSG00000181392.14 | 2.478760789 | S        | background | background | 5 |
| ENSG00000181625.17 | 3.016127393 | background | background | background | 4 |
| ENSG00000181649.5  | 1.02231173 | NA      | background | background | background |
| ENSG00000181785.2  | 1.526164777 | NA      | NA        | NA       | 4 |
| ENSG00000181982.18 | 4.146943688 | background | background | background | 3 |
| ENSG00000182083.7  | 4.245756241 | NA      | background | background | background |
| ENSG00000182183.14 | 1.470234717 | background | background | background | 5 |
| ENSG00000182218.9  | 2.335834473 | 5        | background | background | 4 |
| ENSG00000182230.11 | 2.547649204 | background | background | background | 5 |
| ENSG00000182308.6  | 1.93263663 | NA      | background | background | 5 |
| ENSG00000182324.6  | 1.071282577 | background | background | background | 5 |
| ENSG00000182329.12 | 1.023551417 | S        | NA        | NA       | 3 |
| ENSG00000182459.4  | 1.852837593 | NA      | background | background | background |
| ENSG00000182578.13 | 2.802965261 | 5        | background | background | 5 |
| ENSG00000182600.9  | 1.556366524 | NA      | background | background | 4 |
| ENSG00000182676.4  | 2.367038185 | 4        | background | background | 4 |
| ENSG00000182687.3  | 2.401115502 | NA      | background | background | 4 |
| ENSG00000182759.3  | 1.940225705 | NA      | NA        | background | 5 |
| ENSG00000182795.12 | 1.570514278 | background | background | 5         | 4 |
| ENSG00000182809.10 | 1.146189717 | background | background | background | 4 |
| ENSG00000182866.16 | 2.384986239 | background | background | background | 4 |
| ENSG00000182902.13 | 1.769371926 | S        | background | background | 5 |
| ENSG00000182916.7  | -1.05923998 | background | background | background | background |
| ENSG00000183019.7  | 4.773609435 | NA      | background | background | background |
| ENSG00000183044.11 | 1.256878463 | background | background | background | 4 |
| ENSG00000183091.19 | 1.842111296 | background | background | background | 4 |
| ENSG00000183111.11 | 1.318704135 | background | background | background | 4 |
| ENSG00000183134.4  | 1.530307748 | NA      | background | background | background |
| ENSG00000183206.17 | 1.061163572 | background | NA        | NA       | 5 |
| ENSG00000183379.8  | 4.679775318 | NA      | background | 5         | 5 |
| ENSG00000183423.11 | 1.511539112 | background | NA        | 5         | 5 |
| Gene ID          | Value         | Type | Background | NA | Value         | Type | Background |
|------------------|---------------|------|------------|----|---------------|------|------------|
| ENSGO00000183638.5 | 1.275241413   | 4    | background | 5  | 4             |      | background |
| ENSGO00000183644.13 | 4.944754304   | 5    | NA         | 5  | background    |      | background |
| ENSGO00000183773.15 | 2.093697513   | background | background | 5  | background    |      | background |
| ENSGO00000183791.4 | 7.353469483   | NA   | background | NA | 5             |      | background |
| ENSGO00000183813.6 | 2.19754422    | background | background | 5  | background    |      | background |
| ENSGO00000183831.6 | 1.561465474   | 4    | background | background | 4  | background   |
| ENSGO00000183888.4 | 2.820146255   | NA   | background | 5  | 5             |      | background |
| ENSGO00000183914.14 | 1.91987351    | 5    | background | background | 4  | background   |
| ENSGO00000183921.7 | 3.181190622   | background | NA | 5  | 5             |      | background |
| ENSGO00000184163.3 | 2.219811838   | background | background | background | 5  | background   |
| ENSGO00000184166.2 | 1.06696286    | NA   | background | NA | NA            |      | background |
| ENSGO00000184254.16 | 1.503017967   | 4    | background | background | 4  | background   |
| ENSGO00000184292.6 | 5.5777527     | NA   | 4          | background | 4  | background   |
| ENSGO00000184351.7 | -1.397034595  | NA   | background | background | 5  | background   |
| ENSGO00000184434.7 | 2.59696287    | background | background | 5  | background    |      | background |
| ENSGO00000184492.6 | 1.782530726   | NA   | background | background | 5  | background   |
| ENSGO00000184502.3 | 4.2491753     | NA   | background | background | 5  | background   |
| ENSGO00000184571.13 | 4.870935526   | 5    | background | background | 5  | background   |
| ENSGO00000184619.3 | 1.913447122   | NA   | background | background | 5  | background   |
| ENSGO00000184650.10 | 5.204291314   | NA   | background | background | 5  | background   |
| ENSGO00000184659.4 | 1.585741321   | NA   | background | background | 5  | background   |
| ENSGO00000184678.10 | 2.75185635    | NA   | background | 5  | 5             |      | background |
| ENSGO00000184697.6 | 2.745655572   | NA   | background | background | 5  | background   |
| ENSGO00000184811.3 | 4.836949172   | background | background | 4  | 4             |      | background |
| ENSGO00000184956.15 | 1.610263219   | 4    | background | 5  | 4             |      | background |
| ENSGO00000184984.9 | 1.540592276   | background | background | 5  | 4             |      | background |
| ENSGO00000184985.16 | 4.569540563   | 5    | background | background | 4  | background   |
| ENSGO00000185155.11 | 1.00583828    | NA   | background | 5  | 5             |      | background |
| ENSGO00000185247.14 | 2.759457849   | background | background | 4  | 4             |      | background |
| ENSGO00000185271.7 | 2.765234818   | background | NA | NA | 5             |      | background |
| ENSGO00000185291.11 | 2.17223199    | 4    | background | background | 4  | background   |
| ENSGO00000185291.11 | 2.17223199    | 4    | background | background | 4  | background   |
| ENSGO00000185306.12 | 2.741884931   | background | background | 4  | 4             |      | background |
| ENSGO00000185527.11 | 4.428804402   | background | background | 5  | 5             |      | background |
| ENSGO00000185662.9 | 3.79816617    | background | background | 4  | 4             |      | background |
| ENSGO00000185674.9 | 1.394720045   | 5    | background | background | 5  | background   |
| ENSGO00000185736.15 | 3.689812865   | background | background | 4  | 4             |      | background |
| ENSGO00000185792.9 | 5.779108257   | 4    | background | 5  | 4             |      | background |
| ENSGO00000185933.6 | 2.373508822   | background | background | background | 5  | background   |
| ENSGO00000185955.4 | 2.072128384   | NA   | 5          | background | 5  | background   |
| ENSGO00000185974.6 | 6.46436175    | background | background | 5  | 5             |      | background |
| Gene ID   | Value 1     | Value 2     | Value 3     | Value 4     | Value 5     |
|-----------|-------------|-------------|-------------|-------------|-------------|
| ENSG00000185988.12 | 2.140886356 | 5           | 5           | background  | 5           |
| ENSG00000186115.12 | 3.057669266 | 5           | 5           | background  | 5           |
| ENSG00000186204.14 | 3.859355884 | background  | background  | background  | 5           |
| ENSG00000186265.9 | 3.367904744 | background  | background  | background  | 5           |
| ENSG00000186329.9 | 1.750506125 | NA          | background  | background  | 4           |
| ENSG00000186340.14 | 2.206288733 | 5           | 5           | background  | 4           |
| ENSG00000186340.14 | 2.206288733 | 5           | 5           | background  | 4           |
| ENSG00000186354.10 | 2.420164764 | background  | background  | background  | background  |
| ENSG00000186510.11 | 4.130505501 | background  | background  | background  | 5           |
| ENSG00000186517.13 | 2.032410865 | 5           | 5           | background  | 5           |
| ENSG00000186529.15 | 3.14786034  | background  | background  | background  | 4           |
| ENSG00000186628.12 | 2.532571132 | background  | background  | background  | 4           |
| ENSG00000186642.15 | 2.498972683 | background  | background  | background  | 4           |
| ENSG00000186723.4 | 1.552108488 | NA          | background  | background  | 4           |
| ENSG00000186854.10 | 1.237880769 | background  | background  | background  | 4           |
| ENSG00000186952.14 | 1.358178034 | 5           | 5           | background  | 4           |
| ENSG00000186973.10 | 2.400735832 | background  | NA          | background  | 4           |
| ENSG00000186976.14 | 1.143754317 | 5           | 5           | background  | 4           |
| ENSG00000186994.11 | 1.105897394 | background  | background  | background  | 5           |
| ENSG00000187017.15 | 4.078944694 | background  | background  | background  | 5           |
| ENSG00000187105.8 | 3.32132361  | background  | background  | background  | 3           |
| ENSG00000187134.13 | 1.992197154 | background  | background  | background  | 4           |
| ENSG00000187144.11 | 2.165257632 | background  | background  | background  | 4           |
| ENSG00000187475.5 | 4.7195933   | background  | background  | background  | background  |
| ENSG00000187559.5 | 2.307764961 | NA          | background  | background  | 5           |
| ENSG00000187583.10 | 2.840734311 | 5           | 5           | background  | 4           |
| ENSG00000187642.9 | 2.592184491 | NA          | NA          | 5           | 5           |
| ENSG00000187775.16 | 1.006532226 | 5           | 5           | background  | 4           |
| ENSG00000187796.14 | 1.301981375 | background  | background  | background  | 5           |
| ENSG00000187800.13 | 2.799892088 | 5           | 5           | background  | 4           |
| ENSG00000187837.3 | 1.660421244 | NA          | NA          | 5           | 5           |
| ENSG00000187862.11 | 3.520031467 | background  | background  | background  | 5           |
| ENSG00000187867.8 | 1.521779727 | background  | NA          | background  | background  |
| ENSG00000187902.11 | 2.266950887 | background  | NA          | 5           | 4           |
| ENSG00000187905.10 | 2.202889414 | background  | NA          | NA          | 5           |
| ENSG00000187944.2 | 1.445993347 | background  | background  | background  | 4           |
| ENSG00000187950.8 | 2.912847437 | 5           | 5           | NA          | 4           |
| ENSG00000187997.11 | 2.726355232 | NA          | background  | background  | 4           |
| ENSG00000188000.4 | 1.336179535 | NA          | background  | background  | 5           |
| ENSG00000188033.9 | 1.132450161 | background  | background  | background  | 5           |
| ENSG00000188037.10 | 3.130985931 | 5           | 5           | background  | 4           |
| Gene ID           | Value   | Status | Background | Background | Background |
|------------------|---------|--------|------------|------------|------------|
| ENSG00000188060.7| 1.637   | NA     | background | background | background |
| ENSG00000188133.5| 3.984   | NA     | background | background | background |
| ENSG00000188199.10| 1.307   | 5      | background | background | background |
| ENSG00000188316.13| -1.233  | background | 5          | 5          | 4          |
| ENSG00000188324.4| 3.049   | NA     | background | background | background |
| ENSG00000188467.10| 4.444   | background | background | background | background |
| ENSG00000188483.7| 1.235   | NA     | background | background | background |
| ENSG00000188558.6| 1.331   | NA     | background | background | background |
| ENSG00000188596.10| 1.109   | 5      | background | background | 4          |
| ENSG00000188738.14| 1.412   | 4      | NA         | background | 4          |
| ENSG00000188766.12| 1.770   | background | background | 5          | 5          |
| ENSG00000188800.5 | 5.827   | NA     | background | background | 5          |
| ENSG00000188822.7 | 2.099   | NA     | background | 5          | 4          |
| ENSG00000188910.7 | 4.861   | NA     | background | background | 5          |
| ENSG00000188959.9 | 2.206   | NA     | background | background | 4          |
| ENSG00000188981.10| 2.236   | background | background | 5          | 5          |
| ENSG00000188993.3 | 2.106   | background | background | background | 4          |
| ENSG00000189001.10| 3.639   | NA     | background | background | 5          |
| ENSG00000189030.9 | 5.914   | NA     | background | background | background |
| ENSG00000189045.13| 2.205   | background | background | 5          | 5          |
| ENSG00000189056.13| 3.043   | 5      | background | background | 4          |
| ENSG00000189057.10| 1.554   | background | background | background | 4          |
| ENSG00000189143.9 | 1.613   | NA     | background | background | 5          |
| ENSG00000189253.7 | 5.609   | NA     | background | background | 5          |
| ENSG00000189280.3 | 3.148   | NA     | background | background | background |
| ENSG00000189325.6 | 4.027   | 5      | background | background | 4          |
| ENSG00000189334.8 | 3.215   | NA     | background | background | background |
| ENSG00000189350.12| 1.384   | background | background | 5          | 4          |
| ENSG00000189420.8 | 2.810   | background | NA         | background | background |
| ENSG00000189433.5 | 4.743   | NA     | background | background | 5          |
| ENSG00000196109.6 | 4.189   | NA     | background | 4          | 4          |
| ENSG00000196152.10| 1.152   | background | 5          | background | 4          |
| ENSG00000196218.12| 1.676   | background | NA         | NA         | 4          |
| ENSG00000196218.12| 1.676   | 5      | NA         | NA         | 4          |
| ENSG00000196263.7 | 1.019   | background | background | 5          | 5          |
| ENSG00000196335.12| 2.206   | 4      | background | background | 4          |
| ENSG00000196337.11| 2.365   | NA     | background | background | 5          |
| ENSG00000196361.9 | 2.800   | background | background | 5          | 5          |
| ENSG00000196378.11| 1.562   | background | background | 5          | 4          |
| ENSG00000196433.12| 5.442   | background | background | background | 3          |
| Gene Symbol | Log2FoldChange | Benjamini-Hochberg FDR | Gene Symbol | Log2FoldChange | Benjamini-Hochberg FDR |
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| ENSG00000196433.12 | 5.442093771 | 5 | ENSG00000196503.3 | 1.810431516 | 5 |
| ENSG00000196589.6 | 4.689809983 | 4 | ENSG00000196666.4 | 3.04035018 | 5 |
| ENSG00000196724.12 | 2.257448137 | 5 | ENSG00000196754.10 | 1.823992973 | 5 |
| ENSG00000196834.11 | 1.343846631 | 5 | ENSG00000196880.7 | 1.68369831 | 5 |
| ENSG00000196890.4 | 2.018215532 | 5 | ENSG00000196900.4 | 4.30154858 | 5 |
| ENSG00000196917.5 | 1.320442787 | 5 | ENSG00000196946.10 | 4.59942239 | 5 |
| ENSG00000196993.8 | 1.323598833 | 5 | ENSG00000197000.4 | 4.59942239 | 5 |
| ENSG00000197177.15 | 5.795241929 | 5 | ENSG00000197181.11 | 2.633211921 | 5 |
| ENSG00000197360.9 | 5.29376888 | 5 | ENSG00000197405.7 | 1.231267014 | 5 |
| ENSG00000197410.12 | 1.777401126 | 5 | ENSG00000197520.10 | 6.300760358 | 5 |
| ENSG00000197532.2 | 1.471985882 | 4 | ENSG00000197576.13 | 1.584482712 | 4 |
| ENSG00000197647.11 | 1.466298969 | 4 | ENSG00000197653.15 | 2.582499204 | 4 |
| ENSG00000197748.12 | 1.481799874 | 4 | ENSG00000197837.3 | 1.49533735 | 5 |
| ENSG00000197891.11 | 5.210625982 | 5 | ENSG00000197903.7 | 1.701531133 | 5 |
| ENSG00000197921.5 | 3.961126893 | 5 | ENSG00000198028.3 | 7.183135439 | 5 |
| ENSG00000198133.8 | 1.583716059 | 5 | ENSG00000198156.10 | 2.664961242 | 5 |
| ENSG00000198286.9 | 4.481996769 | 4 | ENSG00000198342.5 | 3.517559965 | 5 |
| ENSG00000198483.12 | 5.72623544 | 5 |
| Gene ID | Expression | Background | Background | Background | Background |
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| ENSG00000198521.7 | 1.562296169 | background | background | background | 4 |
| ENSG00000198523.5 | 3.635678068 | NA | background | background | 4 |
| ENSG00000198573.6 | 4.696756554 | NA | background | background | background |
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| ENSG00000198753.11 | 1.705193565 | background | background | 5 | 5 |
| ENSG00000198798.5 | 4.839570881 | NA | background | background | 5 |
| ENSG00000198892.6 | 1.926908876 | background | background | 5 | 5 |
| ENSG00000198939.7 | 1.655953949 | background | background | background | 3 |
| ENSG00000203663.4 | 1.115378161 | NA | background | background | 5 |
| ENSG00000203734.11 | 1.359748366 | background | background | 4 | 4 |

NA represents not available or not applicable.
| ENSG00000205277.9 | 7.578954205 | 5 | NA | background | 4 |
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| ENSG00000205649.7 | 1.841096116 | background | background | background | 5 |
| ENSG00000205678.7 | 1.94353056 | background | background | background | 4 |
| ENSG00000205710.3 | 2.08151279 | NA | background | background | background |
| ENSG00000205832.7 | 1.348308844 | background | NA | background | 4 |
| ENSG00000205853.10 | 1.360154388 | background | background | background | 5 |
| ENSG00000206150.3 | 6.948041527 | NA | background | background | background |
| ENSG00000212643.2 | 2.07318753 | NA | background | background | background |
| ENSG00000213398.7 | 2.068411845 | NA | background | background | background |
| ENSG00000213578.5 | 3.929014343 | background | background | background | 5 |
| ENSG00000213593.9 | -1.062767097 | background | background | background | 5 |
| ENSG00000213714.1 | 1.603178971 | NA | background | background | 4 |
| ENSG00000213809.8 | 1.583700674 | background | background | background | 5 |
| ENSG00000213937.3 | 4.383711626 | NA | background | background | background |
| ENSG00000214212.8 | 1.29685389 | background | background | background | 5 |
| ENSG00000214376.5 | 4.30117227 | NA | background | background | 4 |
| ENSG00000214753.2 | -1.089510363 | background | background | background | background |
| ENSG00000214814.7 | 4.609689505 | 5 | background | background | 3 |
| ENSG00000214866.8 | 6.205198498 | background | background | background | 4 |
| ENSG00000214897.4 | 2.900450429 | NA | background | NA | 5 |
| ENSG00000214944.9 | 2.546325735 | background | background | background | 4 |
| ENSG00000215529.12 | 6.175813155 | background | background | NA | 4 |
| ENSG00000216921.7 | 4.848758993 | 5 | background | background | 5 |
| ENSG00000220008.3 | 2.292193272 | NA | background | background | 5 |
| ENSG000002211821.3 | -1.0819062 | NA | background | background | background |
| ENSG00000221963.5 | 1.448424654 | background | background | 5 | 5 |
| ENSG00000221986.6 | 5.322774393 | 5 | background | background | 5 |
| ENSG00000221995.5 | 1.110827724 | NA | 5 | background | 5 |
| ENSG00000223443.2 | 5.505307498 | NA | background | NA | 5 |
| ENSG00000223547.9 | 1.237134971 | background | background | 4 | 4 |
| ENSG00000223573.6 | 2.796710013 | background | background | background | 5 |
| ENSG00000223638.3 | 2.571461804 | background | background | NA | 5 |
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| ENSG00000224960.4 | 5.437878082 | NA | background | background | background |
| ENSG00000225614.2 | 1.809229496 | NA | NA | background | 4 |
| ENSG00000225899.7 | 5.286577743 | NA | background | NA | background |
| ENSG00000226430.6 | 4.972504686 | NA | background | NA | 5 |
| ENSG00000226650.5 | 5.500353486 | NA | background | background | background |
| ENSG00000226763.4 | 1.759698128 | NA | background | background | 5 |
| ENSG00000226979.8 | 4.360292239 | background | background | background | background |
| Gene ID          | Value         | NA   | background | background | background |
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| ENSG00000227268.3| 1.030354463   | NA   | background | background | 4          |
| ENSG00000227471.8| 1.538299468   | NA   | background | NA         | NA         |
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| ENSG00000229292.1| 5.556103435   | background | background | NA         | 4          |
| ENSG00000229579.4| 6.700151348   | NA   | NA         | NA         | 5          |
| ENSG00000229859.9| 6.183840729   | background | background | background | 4          |
| ENSG00000230268.3| 4.099422947   | NA   | NA         | background | 5          |
| ENSG00000230430.4| 6.700151348   | NA   | NA         | NA         | 5          |
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| ENSG000002322237.3| 1.670286915   | NA   | background | 5          | 5          |
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| ENSG00000232859.9| -1.045848362  | NA   | background | background | 5          |
| ENSG00000233136.2| 11.23736736   | NA   | NA         | NA         | 5          |
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| ENSG00000233822.4| 2.199759084   | NA   | NA         | background | 5          |
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| ENSG00000234289.5| 1.6780776     | NA   | background | background | 5          |
| ENSG00000235098.8| 3.151141009   | background | background | background | 5          |
| ENSG00000235268.2| 6.81450196    | NA   | background | background | 4          |
| ENSG00000235718.8| 4.858497098   | background | background | background | 5          |
| ENSG00000235863.3| 1.8044169     | NA   | background | background | 5          |
| ENSG00000236362.8| 3.98723996    | NA   | S          | background | background | 4          |
| ENSG00000237515.8| 1.371406739   | background | background | 5          | 4          |
| ENSG00000238269.8| 2.813121132   | background | background | background | 5          |
| ENSG00000239605.9| 3.489505295   | background | background | background | 4          |
| ENSG00000239732.3| 5.564526285   | NA   | background | background | 5          |
| ENSG00000240021.9| 1.922830623   | background | background | background | 5          |
| ENSG00000241322.4| 1.138165228   | background | NA         | background | 5          |
| ENSG00000241563.3| 1.740872417   | NA   | 5          | background | 5          |
| ENSG00000242220.6| 1.034468951   | background | background | background | 5          |
| ENSG00000242265.5| 1.489224805   | NA   | background | background | 5          |
| ENSG00000242689.2| 2.447059313   | NA   | background | background | 5          |
| ENSG00000242715.7| 1.359557991   | background | background | background | 4          |
| ENSG00000243789.10| 1.156075685    | background | background | background | 5          |
| ENSG00000244482.5| 2.7435104     | NA   | background | background | 5          |
| ENSG00000244694.7| 2.543471867   | background | background | background | 4          |
| ENSG00000244731.7| 1.947150955   | S     | background | background | 5          |
| ENSG00000244752.2| 4.217364385   | background | background | background | 4          |
| ENSG00000246922.8| 1.384584268   | NA   | background | background | 5          |
| Gene Symbol | Value | Background | NA | Additional Background | Value | Background |
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| ENSG00000248383.4 | 3.731399811 | background | NA | background | 5 |
| ENSG00000248485.1 | 5.18893336 | background | background | background | 4 |
| ENSG00000248713.1 | 4.680787642 | NA | NA | background | 4 |
| ENSG00000249933.2 | 1.254742648 | background | NA | NA | 4 |
| ENSG00000249961.9 | 2.201446161 | background | NA | 5 |
| ENSG00000250091.2 | 1.596130868 | background | NA | 5 |
| ENSG00000250120.6 | 1.671509376 | background | NA | 5 |
| ENSG00000250673.2 | 1.754035582 | background | background | background | 4 |
| ENSG00000250782.1 | 6.281591647 | NA | NA | background | 4 |
| ENSG00000251258.1 | 8.11940771 | background | background | background | 5 |
| ENSG00000251537.4 | 2.036492599 | background | background | background | 5 |
| ENSG00000253304.1 | 3.138689169 | background | background | background | 4 |
| ENSG00000253305.2 | 1.908151734 | background | NA | background | 5 |
| ENSG00000253309.6 | 2.07265058 | background | background | background | 5 |
| ENSG00000253731.2 | 1.510138588 | background | background | background | 5 |
| ENSG00000253831.1 | 5.028787568 | background | background | background | 4 |
| ENSG00000254206.5 | 1.497676019 | background | background | background | 5 |
| ENSG00000254245.2 | 4.303898532 | background | background | background | 4 |
| ENSG00000254415.3 | 2.52286406 | background | background | background | 4 |
| ENSG00000254997.3 | 4.214981196 | NA | background | background | 5 |
| ENSG00000255150.2 | 2.54891908 | background | background | background | 5 |
| ENSG00000255398.2 | 5.243502767 | background | background | background | 5 |
| ENSG00000255408.3 | 5.903647061 | background | NA | background | 5 |
| ENSG00000255558.7 | 6.431482464 | background | background | background | 5 |
| ENSG00000255730.5 | -1.062249729 | background | background | background | 4 |
| ENSG00000255855.2 | 8.022598365 | NA | NA | background | 4 |
| ENSG00000256162.2 | 4.796892638 | background | background | background | 4 |
| ENSG00000256797.1 | 4.718421103 | background | background | NA | 5 |
| ENSG00000257017.4 | 3.436980251 | background | background | background | 5 |
| ENSG00000257108.1 | 1.62733257 | background | background | background | 5 |
| ENSG00000258989.1 | 4.98922246 | NA | NA | background | 4 |
| ENSG00000259399.1 | 1.62966891 | background | background | background | 4 |
| ENSG00000259417.2 | 1.92594781 | background | background | background | 4 |
| ENSG00000260286.3 | 5.8590621 | background | background | background | 4 |
| ENSG00000260325.1 | 1.068277483 | background | background | background | 5 |
| ENSG00000261150.2 | 2.423544889 | background | background | background | 5 |
| ENSG00000261341.6 | 1.318890912 | background | background | background | 5 |
| ENSG00000261857.6 | 4.955565976 | background | background | background | 5 |
| Gene ID            | Expression | Status  | Status  |
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| ENSG00000263201.1 | 5.559        | NA      | background |
| ENSG00000266086.1 | 1.004        | background | background |
| ENSG00000266733.5 | 3.881        | background | background |
| ENSG00000267041.5 | 1.460        | background | background |
| ENSG00000267618.5 | 5.706        | background | background |
| ENSG00000268655.2 | 1.765        | background | background |
| ENSG00000268964.1 | 5.149        | NA      | background |
| ENSG00000269437.6 | 4.719        | background | background |
| ENSG00000270276.2 | 2.127        | NA      | background |
| ENSG00000270379.5 | 5.987        | background | background |
| ENSG00000270882.2 | 1.828        | NA      | background |
| ENSG00000272968.5 | 1.369        | background | background |
| ENSG00000273269.2 | 4.971        | background | background |
| ENSG00000273983.1 | 5.258        | NA      | background |
| ENSG00000274286.1 | 3.493        | NA      | background |
| ENSG00000274290.2 | 2.376        | NA      | background |
| ENSG00000274529.5 | 4.856        | background | NA |
| ENSG00000274559.3 | 1.678        | NA      | background |
| ENSG00000274641.1 | 2.087        | NA      | NA |
| ENSG00000274744.1 | 7.587        | NA      | NA |
| ENSG00000274750.2 | 2.218        | NA      | background |
| ENSG00000275395.5 | 1.367        | NA      | NA |
| ENSG00000275553.3 | 5.605        | NA      | NA |
| ENSG00000275793.1 | 1.008        | NA      | background |
| ENSG00000275832.4 | 1.240        | background | background |
| ENSG00000276180.1 | 1.578        | NA      | background |
| ENSG00000276747.1 | 6.375        | background | background |
| ENSG00000276966.2 | 2.628        | NA      | background |
| ENSG00000277399.4 | 2.393        | background | background |
| ENSG00000277481.1 | 4.131        | background | NA |
| ENSG00000277531.2 | 3.252        | NA      | background |
| ENSG00000277639.2 | 2.462        | background | background |
| ENSG00000277745.1 | 2.830        | NA      | background |
| ENSG00000278195.1 | 2.908        | S       | background |
| ENSG00000278685.4 | 3.764        | S       | background |
| ENSG00000278828.1 | 1.332        | NA      | background |
| ENSG00000282804.1 | 4.459        | background | background |
| ENSG00000282988.1 | 3.671        | NA      | background |
| ENSG00000283039.1 | 5.358        | NA      | NA |
| ENSG00000283439.1 | 4.901        | background | NA |
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|ENSG00000283776.1|5|6.518858251|NA|NA|NA|background| |
|ENSG00000283873.1|5|7.382482566|NA|NA|NA|background| |
|ENSG00000284018.1|5|7.438929983|NA|NA|NA|background| |
|ENSG00000284306.1|5|4.149535764|NA|NA|NA|background| |
|ENSG00000284546.1|5|5.711882753|NA|NA|NA|background| |
|ENSG00000284713.1|5|6.722934324|NA|5|background|5|
|ENSG00000004776.12|6|1.95193366| |background| |background| |
|ENSG00000004848.7|6|2.438055971| |background| |background| |
|ENSG00000006327.13|6|-1.972728485| |background| |background| |
|ENSG00000006747.14|6|1.711540895| |background| |background| |
|ENSG00000010030.13|6|1.502391016| |background| |background|5|
|ENSG00000010282.14|6|5.206785931| |background| |background| |
|ENSG00000010327.10|6|1.445119826|S|background| |background|5|
|ENSG00000010379.15|6|3.218811294| |background| |background|5|
|ENSG00000010671.15|6|1.831947776| |background| |background| |
|ENSG00000011021.21|6|1.336751623| |background| |background| |
|ENSG00000011677.12|6|-1.018103905| |background| |background|4|
|ENSG00000015520.14|6|1.478482738| |background| |background| |
|ENSG00000019582.14|6|3.749934331| |background| |background|5|
|ENSG00000023445.13|6|1.381095164| |background| |background| |
|ENSG00000023839.10|6|1.469197005| |background| |background|5|
|ENSG00000026025.15|6|-1.09135378| |background| |background| |
|ENSG00000028177.21|6|1.477085894| |background| |background|5|
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|ENSG00000039987.6|6|1.847179148| |background| |background| |
|ENSG00000041982.15|6|-1.19359795| |background| |background|4|
|ENSG00000042062.11|6|2.022645542| |background| |background|4|
|ENSG00000042493.15|6|-1.633633556| |background| |background|5|
|ENSG00000042832.11|6|2.730867478| |background| |background|4|
|ENSG00000044524.10|6|-1.156821583| |background| |background|4|
|ENSG00000046774.9|6|3.455167036| |background| |background| |
|ENSG00000047644.18|6|1.686359958| |background| |background|5|
|ENSG00000047662.4|6|1.228470595| |background| |background|5|
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|ENSG00000055118.14|6|1.397941059|S|background| |background|5|
|ENSG00000057468.6|6|1.154063444| |background| |background|5|
|ENSG00000057657.15|6|2.04488799| |background| |background|5|
|ENSG00000063176.15|6|1.07992005| |background| |background| |
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| ENSG00000064547.13 | 1.009220887 | background | background | background | background |
| ENSG00000064666.14 | 1.153676508 | background | background | background | background |
| ENSG00000064886.13 | 2.085888247 | background | background | background | background |
| ENSG00000065361.14 | 1.55642915  | background | background | background | background |
| ENSG00000065621.14 | -1.417556614 | background | background | background | background |
| ENSG00000065717.14 | 1.256213285 | background | background | background | background |
| ENSG00000067842.17 | 2.255664649 | background | background | background | background |
| ENSG00000068394.10 | -1.197507036 | background | background | background | background |
| ENSG00000068976.13 | 2.965825484 | background | background | background | background |
| ENSG00000069018.17 | 4.695825484 | background | background | background | background |
| ENSG00000069812.11 | 4.712625723 | background | background | background | background |
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| ENSG00000070915.9 | 3.004867067 | background | background | background | background |
| ENSG00000073464.11 | 2.302684082 | background | background | background | background |
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| ENSG00000077522.12 | 4.712625723 | background | background | background | background |
| ENSG00000078914.15 | 1.133738586 | background | background | background | background |
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| ENSG00000082126.17 | 1.541860726 | background | background | background | background |
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| ENSG00000083454.21 | 2.697262947 | background | background | background | background |
| ENSG00000084110.10 | 1.830740893 | background | background | background | background |
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| ENSG00000087494.15 | -1.493089972 | background | background | background | background |
| ENSG00000087589.16 | 2.047857791 | background | background | background | background |
| ENSG00000088827.12 | 5.733796362 | background | background | background | background |
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| ENSG00000088992.17 | 1.446059528 | background | background | background | background |
| ENSG00000089820.15 | 1.061575081 | background | background | background | background |
| ENSG00000091831.23 | 3.196613045 | background | background | background | background |
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| ENSG00000099308.10 | -1.121044107 | background | NA          | background |
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| ENSG00000100298.15 | 2.164858236  | 5          | background | 5 |
| ENSG00000100314.3 | 1.678826162  | background | background | 5 |
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| ENSG00000101448.13 | 1.395580265  | NA          | background | 5 |
| ENSG00000101464.10 | -1.042144597 | background | NA          | background |
| ENSG00000101670.11 | 1.011374065  | background | background | 5 |
| ENSG00000101977.19 | 2.184557668  | background | background | 5 |
| ENSG00000102057.9 | 1.552847248  | background | background | 5 |
| ENSG00000102128.8 | 1.892535818  | NA          | background | 5 |
| ENSG00000102195.9 | 1.900901111  | NA          | background | 5 |
| ENSG00000102287.18 | 3.907796811  | background | background | 5 |
| ENSG00000102890.14 | 1.388163973  | 5          | background | 5 |
| ENSG00000102924.11 | 1.656934253  | NA          | background | 5 |
| ENSG00000103051.18 | -1.173542704 | background | background | 5 |
| ENSG00000103196.11 | 1.8128613    | background | background | 5 |
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| ENSG00000103740.9 | 2.228105996  | background | background | 5 |
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| Ensembl | Gene Symbol | Value | Background 1 | Background 2 | Background 3 | Background 4 | Background 5 |
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| ENSG00000104313.17 | -1.046387103 | background | background | background | 5 |
| ENSG00000104368.17 | -1.218527725 | background | background | background | 5 |
| ENSG00000104723.20 | -1.093618076 | background | background | background | 4 |
| ENSG00000104783.11 | 4.367626201 | background | background | background | 5 |
| ENSG00000104879.4 | 2.66818037  | background | background | background | background |
| ENSG00000104883.7 | -1.562621615 | background | background | background | background |
| ENSG00000104888.9 | 1.390505938 | background | background | background | background |
| ENSG00000104967.6 | 1.297380645 | background | background | background | background |
| ENSG00000105219.8 | 2.337520553 | background | background | background | background |
| ENSG00000105227.14 | 1.434401758 | background | background | background | background |
| ENSG00000105327.17 | 1.658900061 | background | background | background | background |
| ENSG00000105329.9 | 1.118517989 | background | background | background | background |
| ENSG00000105339.10 | 1.362911561 | background | background | background | background |
| ENSG00000105369.9 | 2.116683731 | background | background | background | background |
| ENSG00000105664.10 | 1.03439849 | background | background | background | background |
| ENSG00000105697.7 | 1.557400622 | NA | background | background | 5 |
| ENSG00000105967.15 | 2.729042833 | background | background | background | 5 |
| ENSG00000106018.13 | 2.986443299 | background | background | 5 | 5 |
| ENSG00000106328.9 | 2.086447812 | background | background | background | 5 |
| ENSG00000106367.13 | -1.053438967 | background | background | background | background |
| ENSG00000106991.13 | 2.32924624 | background | background | background | background |
| ENSG00000107147.12 | 1.195270027 | background | background | background | 5 |
| ENSG00000107187.15 | 1.69060162 | background | background | background | background |
| ENSG00000107249.21 | -1.197538969 | background | background | background | 5 |
| ENSG00000107742.12 | 1.545151528 | background | background | background | 5 |
| ENSG00000108242.12 | 2.866002769 | background | background | background | background |
| ENSG00000108255.7 | 4.547566989 | background | NA | background | background |
| ENSG00000108352.11 | 1.501934181 | background | NA | background | background |
| ENSG00000108551.4 | 2.724491218 | NA | background | background | background |
| ENSG00000109063.14 | 1.383703463 | background | background | background | background |
| ENSG00000109339.20 | 1.841468697 | background | background | 5 | background | 4 |
| ENSG00000109680.10 | -1.194346426 | background | background | background | 5 |
| ENSG00000109832.13 | 1.310683009 | background | background | 5 | 5 |
| ENSG00000111199.10 | 1.430033548 | background | background | background | 5 |
| ENSG00000111262.5 | 2.958060747 | NA | background | 5 | 5 |
| ENSG00000111344.11 | 2.309878467 | background | background | 5 | 5 |
| ENSG00000111452.12 | 1.307518851 | background | background | background | 5 |
| ENSG00000111886.10 | 1.81059844 | background | background | background | 4 |
| ENSG00000111913.17 | 1.11215775 | background | background | background | 5 |
| ENSG00000112116.9 | 6.599516638 | background | background | background | background |
| ENSG00000112773.15 | 1.30241864 | background | background | background | 5 |
| Gene ID          | Score         | Background 1 | Background 2 | Background 3 | Score 4 |
|-----------------|---------------|--------------|--------------|--------------|--------|
| ENSG00000112818.9 | 3.584981929   | background   | background   | background   | 5.0000 |
| ENSG00000113721.13 | 3.614033278   | background   | background   | background   | 5.0000 |
| ENSG00000114480.12 | -1.206827308  | background   | background   | background   | 5.0000 |
| ENSG00000115266.11 | 1.42163631    | background   | background   | background   | 5.0000 |
| ENSG00000115474.6 | 3.543169327   | background   | background   | background   | 5.0000 |
| ENSG00000115705.20 | 2.612715836   | background   | background   | background   | 4.0000 |
| ENSG00000115850.9 | 4.085510808   | background   | background   | background   | 5.0000 |
| ENSG00000116014.9 | 5.40195203    | background   | background   | background   | 5.0000 |
| ENSG00000116120.9 | -1.070802209  | background   | background   | background   | 5.0000 |
| ENSG00000116194.12 | 2.874867376   | background   | background   | background   | 5.0000 |
| ENSG00000116254.17 | 1.545981307   | background   | background   | background   | 5.0000 |
| ENSG00000116299.16 | 1.26668971    | background   | background   | background   | 5.0000 |
| ENSG00000116329.10 | 1.201830582   | background   | background   | background   | 5.0000 |
| ENSG00000116748.21 | 2.812672592   | background   | background   | background   | 5.0000 |
| ENSG00000116874.11 | -1.098323426  | background   | background   | background   | 5.0000 |
| ENSG00000117707.15 | 1.570587734   | background   | background   | background   | 5.0000 |
| ENSG00000117707.15 | 1.570587734   | NA           | background   | background   | 5.0000 |
| ENSG00000117971.11 | 1.421985879   | background   | background   | background   | 5.0000 |
| ENSG00000117983.17 | 3.345482791   | background   | background   | background   | 5.0000 |
| ENSG00000118004.17 | 2.27836882    | NA           | background   | background   | 5.0000 |
| ENSG00000118096.7 | -1.107838132  | background   | background   | background   | 5.0000 |
| ENSG00000118160.13 | 1.444105999   | background   | background   | background   | 5.0000 |
| ENSG00000118194.18 | 2.62435028    | background   | background   | background   | 5.0000 |
| ENSG00000118298.10 | 1.758581391   | background   | background   | background   | 5.0000 |
| ENSG00000118322.12 | 1.535450196   | 5            | background   | background   | 5.0000 |
| ENSG00000118898.15 | 2.98533726    | background   | background   | background   | 5.0000 |
| ENSG00000119013.8 | -1.009768424  | background   | background   | background   | 5.0000 |
| ENSG00000119283.15 | 1.80686791    | background   | NA           | background   | 5.0000 |
| ENSG00000119630.13 | 1.253420271   | background   | background   | background   | 5.0000 |
| ENSG00000119681.11 | 1.666006173   | background   | background   | background   | 5.0000 |
| ENSG00000119714.10 | 2.160834676   | NA           | background   | background   | 5.0000 |
| ENSG00000119737.5 | 1.798090563   | NA           | background   | background   | 5.0000 |
| ENSG00000119888.10 | 1.303725471   | background   | background   | background   | 5.0000 |
| ENSG00000119915.4 | 5.674551384   | background   | background   | background   | 5.0000 |
| ENSG00000120049.18 | 1.481774703   | background   | NA           | background   | 5.0000 |
| ENSG00000120885.21 | -1.08068239   | background   | background   | background   | 5.0000 |
| ENSG00000121022.13 | -1.156311144  | background   | background   | background   | 5.0000 |
| ENSG00000121101.15 | 1.657241862   | background   | background   | background   | 5.0000 |
| ENSG00000121753.12 | 1.038098555   | background   | background   | background   | 5.0000 |
| ENSG00000121904.17 | 1.563192723   | background   | background   | background   | 5.0000 |
| ENSG00000121966.6 | 1.030862382   | NA           | background   | background   | 5.0000 |
| Gene ID          | Value    | p-value | Background 1 | Background 2 | Background 3 |
|-----------------|----------|---------|--------------|--------------|--------------|
| ENSG00000122641.10 | -1.720239391 | NA      | background   | background   | 5            |
| ENSG00000122877.15 | 1.747476378  | NA      | background   | background   | 5            |
| ENSG00000123843.12 | 1.083609038  | background | background   | background   | 5            |
| ENSG00000123901.8  | 1.652362019  | background | background   | background   | 5            |
| ENSG00000124092.12 | 2.19106547   | 5        | background   | background   | 5            |
| ENSG00000124103.8  | 1.572891827  | NA      | background   | background   | background   |
| ENSG00000124216.3  | 2.491919335  | NA      | background   | background   | background   |
| ENSG00000124635.8  | 2.874932654  | NA      | NA           | background   | 5            |
| ENSG00000124772.11 | 2.016900935  | 5        | background   | background   | background   |
| ENSG00000125285.5  | 1.457935494  | NA      | background   | background   | background   |
| ENSG00000125337.16 | 1.464870978  | background | background   | background   | 5            |
| ENSG00000125931.10 | 1.151315353  | background | background   | background   | background   |
| ENSG00000125998.7  | 3.483605016  | background | background   | background   | background   |
| ENSG00000126460.10 | 2.361862537  | background | background   | background   | background   |
| ENSG00000126759.13 | 1.298037501  | background | background   | background   | 4            |
| ENSG00000126768.12 | -1.032816132 | background | background   | background   | background   |
| ENSG00000126861.4  | 1.879303967  | NA      | background   | background   | background   |
| ENSG00000126895.13 | 3.415596565  | NA      | background   | background   | background   |
| ENSG00000127152.17 | 1.21786158   | NA      | background   | background   | 5            |
| ENSG00000127507.17 | 1.262514822  | background | background   | background   | 5            |
| ENSG00000127530.3  | 1.491006376  | NA      | background   | background   | 5            |
| ENSG00000127578.6  | 1.301513877  | NA      | background   | background   | background   |
| ENSG00000128242.12 | 2.562326937  | NA      | background   | background   | 5            |
| ENSG00000128298.16 | 1.075893013  | background | background   | background   | 4            |
| ENSG00000128342.4  | 2.970335107  | background | background   | background   | background   |
| ENSG00000128564.6  | 1.962748679  | NA      | background   | background   | background   |
| ENSG00000128573.24 | -1.105914787 | background | background   | background   | 5            |
| ENSG00000128655.17 | 2.190802335  | background | background   | background   | 4            |
| ENSG00000128917.6  | 1.310661268  | background | background   | 5            | 5            |
| ENSG00000129048.6  | 2.222216018  | NA      | background   | background   | 5            |
| ENSG00000129244.8  | 1.231596698  | background | background   | background   | 5            |
| ENSG00000129654.7  | 2.656733712  | background | background   | background   | background   |
| ENSG00000129749.3  | 1.252452783  | background | background   | background   | background   |
| ENSG00000129757.12 | 1.934446948  | background | background   | background   | background   |
| ENSG00000129951.18 | 2.609348613  | background | background   | background   | 5            |
| ENSG00000130203.9  | 2.08760856   | background | background   | background   | background   |
| ENSG00000130222.10 | 3.776438758  | background | background   | background   | background   |
| ENSG00000130270.16 | 1.378018639  | background | background   | background   | background   |
| ENSG00000130368.5  | 1.056478442  | NA      | background   | background   | background   |
| ENSG00000130383.7  | 4.564286469  | NA      | background   | background   | background   |
| ENSG00000130477.15 | 1.197170806  | background | NA           | background   | background   |
| Gene ID | Log2 Fold Change | p-value | Annotation | Background |
|--------|----------------|---------|------------|------------|
| ENSG00000130513.6 | 2.06567711 | NA | background | background |
| ENSG00000130540.13 | 1.380047597 | | background | background |
| ENSG00000130561.16 | 1.55226721 | | background | background |
| ENSG00000130595.18 | 1.751244351 | | background | background |
| ENSG00000130783.13 | 2.223443943 | | background | background |
| ENSG00000130844.16 | 1.117475714 | | background | background |
| ENSG00000131044.16 | 1.695624132 | | background | background |
| ENSG00000131080.14 | 2.105920933 | | background | background |
| ENSG00000131471.6 | 1.961951712 | | background | background |
| ENSG00000131480.8 | 1.306243016 | | background | background |
| ENSG00000131864.10 | 4.977632373 | | background | background |
| ENSG00000131914.10 | 2.00969981 | | background | background |
| ENSG00000132000.11 | 2.431509046 | | background | background |
| ENSG00000132274.15 | 1.452080263 | | background | background |
| ENSG00000132394.10 | -1.029524868 | | background | background |
| ENSG00000132423.11 | -1.13892635 | | background | background |
| ENSG00000132510.10 | 1.032147636 | | background | background |
| ENSG00000132535.18 | 1.235571998 | | background | background |
| ENSG00000132718.8 | 1.07084032 | | background | background |
| ENSG00000132855.4 | 2.249123577 | | background | background |
| ENSG00000132938.19 | 1.62113854 | | background | background |
| ENSG00000133454.15 | 3.782839708 | | background | background |
| ENSG00000133640.18 | -1.419781602 | | background | background |
| ENSG00000133805.15 | -1.158220893 | | background | background |
| ENSG00000134146.11 | -1.134146144 | | background | background |
| ENSG00000134207.15 | 1.510363815 | | background | background |
| ENSG00000134242.15 | 1.9111615 | | background | background |
| ENSG00000134323.11 | 3.181349752 | | background | background |
| ENSG00000134363.11 | 2.602708096 | NA | background | background |
| ENSG00000134463.14 | 6.074708266 | | background | background |
| ENSG00000134516.15 | 4.830074519 | | background | background |
| ENSG00000134571.10 | 3.621103777 | | background | background |
| ENSG00000134595.8 | 4.093503644 | NA | background | background |
| ENSG00000134769.21 | -1.090293392 | | background | background |
| ENSG00000134864.10 | -1.407831023 | | background | background |
| ENSG00000134940.13 | 1.318629502 | NA | background | background |
| ENSG00000134962.6 | 1.569051178 | | background | background |
| ENSG00000135046.13 | -3.088708462 | | background | background |
| Gene ID          | Value     | Background | Background | | | 
|-----------------|-----------|------------|------------|---|---| 
| ENSG00000135248.15 | 5.579976549 | background | background | 4 | 4 | 
| ENSG00000135346.8 | 3.087592993 | background | background | 4 | 4 | 
| ENSG00000135406.13 | 1.266000479 | background | background | 4 | 4 | 
| ENSG00000135407.10 | 1.0782895   | background | NA         | 4 | 4 | 
| ENSG00000135409.10 | -1.067673422 | background | background | 4 | 4 | 
| ENSG00000135423.12 | 1.56859624  | background | background | 4 | 4 | 
| ENSG00000135447.16 | 1.560171455 | background | background | 4 | 4 | 
| ENSG00000135517.6 | 1.45646698  | NA         | background | 4 | 4 | 
| ENSG00000135519.6 | 2.123894252 | background | background | 4 | 4 | 
| ENSG00000135625.7 | 2.400615465 | NA         | background | 4 | 4 | 
| ENSG00000135824.12 | 5.340178962 | background | NA         | 4 | 4 | 
| ENSG00000136014.11 | 1.042248325 | background | background | 4 | 4 | 
| ENSG00000136048.13 | 1.033451679 | background | background | 4 | 4 | 
| ENSG00000136099.13 | 2.437846536 | background | background | 4 | 4 | 
| ENSG00000136161.12 | 1.486674708 | background | background | 4 | 4 | 
| ENSG00000136286.14 | 3.05755721  | background | background | 4 | 4 | 
| ENSG00000136383.6 | 1.97992139  | 5          | background | 4 | 4 | 
| ENSG00000136546.13 | 4.019432724 | background | background | 4 | 4 | 
| ENSG00000136842.13 | -1.015556719 | background | background | 4 | 4 | 
| ENSG00000136872.17 | 3.221923055 | background | background | 4 | 4 | 
| ENSG00000136881.11 | 2.174885357 | background | background | 4 | 4 | 
| ENSG00000136931.9 | 2.560403611 | background | background | 4 | 4 | 
| ENSG00000137225.12 | 5.078256831 | background | background | 4 | 4 | 
| ENSG00000137265.14 | 2.148329296 | background | background | 4 | 4 | 
| ENSG00000137331.11 | 1.468237863 | NA         | background | 4 | 4 | 
| ENSG00000137404.14 | -1.005938155 | background | background | 4 | 4 | 
| ENSG00000137507.11 | 1.52260934  | background | background | 4 | 4 | 
| ENSG00000137801.10 | 1.034757004 | background | background | 4 | 4 | 
| ENSG00000137843.11 | 1.387905523 | background | background | 4 | 4 | 
| ENSG00000137868.18 | 1.849282764 | background | background | 4 | 4 | 
| ENSG00000137877.9 | 3.170885389 | background | background | 4 | 4 | 
| ENSG00000137877.9 | 3.170885389 | background | background | 4 | 4 | 
| ENSG00000138100.13 | 2.917115046 | background | background | 4 | 4 | 
| ENSG00000138119.16 | -1.338380247 | background | NA         | 4 | 4 | 
| ENSG00000138347.15 | 1.990479789 | background | background | 4 | 4 | 
| ENSG00000138623.9 | 1.174994075 | background | background | 4 | 4 | 
| ENSG00000138722.9 | -4.638346386 | background | background | 4 | 4 | 
| ENSG00000138892.11 | 4.857007612 | background | NA         | 5 | 5 | 
| ENSG00000138964.16 | 2.097746271 | background | background | 5 | 5 | 
| ENSG00000139200.13 | 1.503606699 | background | background | 5 | 5 |
| Gene ID             | Log2 Fold Change | Expression | Background 1 | Background 2 | Background 3 | Background 4 | Background 5 |
|--------------------|------------------|------------|--------------|--------------|--------------|--------------|--------------|
| ENSG00000139287.12 | 1.123920788      | background | background   | background   | background   | background   | 5            |
| ENSG00000139344.7 | 1.002364958      | background | background   | background   | background   | background   | background   |
| ENSG00000139410.14| -1.151626647     | background | background   | background   | background   | background   | background   |
| ENSG00000139597.17| 1.543851682      | background | background   | background   | background   | background   | 5            |
| ENSG00000139626.15| 2.963302084      | background | background   | background   | background   | background   | background   |
| ENSG00000139915.19| -1.136054755     | background | background   | background   | background   | background   | 5            |
| ENSG00000140297.12| 1.687709751      | background | background   | background   | background   | background   | 5            |
| ENSG00000140465.13| 1.10832312       | background | background   | background   | background   | background   | background   |
| ENSG00000140478.15| 2.624116611      | background | NA           | background   | background   | background   | 5            |
| ENSG00000140506.16| 3.702586336      | background | background   | background   | background   | background   | background   |
| ENSG00000140795.12| 1.047286819      | background | background   | background   | background   | background   | background   |
| ENSG00000140986.7 | 1.183079055      | background | background   | background   | background   | background   | 5            |
| ENSG00000140993.10| 1.039942233      | NA         | background   | background   | background   | background   | background   |
| ENSG00000141505.11| 1.65961425       | background | background   | background   | background   | background   | background   |
| ENSG00000141510.16| -1.0041547       | background | background   | background   | background   | background   | 5            |
| ENSG00000141526.16| 1.53683304       | NA         | background   | background   | background   | background   | 5            |
| ENSG00000141574.7 | 1.591027034      | background | background   | background   | background   | background   | background   |
| ENSG00000141579.6 | 3.873716251      | background | background   | background   | background   | background   | 5            |
| ENSG00000141738.13| 2.407735733      | background | background   | background   | background   | background   | 5            |
| ENSG00000141934.9 | 2.547684749      | 5          | background   | background   | background   | background   | 5            |
| ENSG00000141965.4 | 1.05074916       | NA         | background   | background   | background   | background   | background   |
| ENSG00000142185.16| 4.125932787      | background | background   | background   | background   | background   | 5            |
| ENSG00000142227.10| -1.031181614     | background | background   | background   | background   | background   | background   |
| ENSG00000142511.4 | 4.313913913      | NA         | background   | background   | background   | background   | background   |
| ENSG00000142513.5 | 1.120514195      | background | NA           | background   | background   | background   | background   |
| ENSG00000142627.12| 1.069483256      | background | background   | background   | background   | background   | 5            |
| ENSG00000142661.18| 2.256013649      | background | background   | background   | background   | background   | 5            |
| ENSG00000142677.3 | 4.317244957      | 5          | background   | background   | background   | background   | 5            |
| ENSG00000142700.11| 1.103195891      | NA         | background   | background   | background   | background   | 5            |
| ENSG00000142871.16| -1.170049485     | background | background   | background   | background   | background   | 5            |
| ENSG00000143107.8 | 1.897321773      | background | background   | 5            | 5            | background   | 5            |
| ENSG00000143110.11| 1.626729642      | background | background   | background   | background   | background   | 5            |
| ENSG00000143127.12| 1.823625094      | background | background   | background   | background   | background   | 5            |
| ENSG00000143217.8 | 1.904884763      | background | background   | background   | background   | background   | 5            |
| ENSG00000143333.6 | 2.025984142      | background | background   | background   | background   | background   | 5            |
| ENSG00000143502.14| 1.952175089      | 5          | background   | background   | background   | background   | 5            |
| ENSG00000143512.12| 1.296917086      | background | background   | background   | background   | background   | 5            |
| ENSG00000143552.9 | 1.87030718       | background | background   | background   | background   | background   | 5            |
| ENSG00000143590.13| 1.033414026      | background | background   | background   | background   | background   | 5            |
| ENSG00000143632.14| 2.18255834       | background | background   | background   | background   | background   | 5            |
|       | ENSG00000143850.13 | 1.388304724 | background | background | background | 4 |
|-------|-------------------|-------------|------------|------------|------------|---|
|       | ENSG00000144015.4 | 5.164870975 | background | background | background | 5 |
|       | ENSG00000144476.5 | 2.948510676 | NA         | background | background | 5 |
|       | ENSG00000144550.12 | 1.945288979 | background | background | background | 5 |
|       | ENSG00000144821.9 | 1.349732359 | background | background | background | 5 |
|       | ENSG00000144852.17 | 4.794208513 | background | background | background | 5 |
|       | ENSG00000145040.3 | 1.8508828   | NA         | background | background | 5 |
|       | ENSG00000145198.14 | 1.507498418 | background | background | background | 5 |
|       | ENSG00000145632.14 | 1.51921924  | background | background | background | 5 |
|       | ENSG0000014606.7  | 1.51398442  | NA         | background | background | 5 |
|       | ENSG00000146453.12 | 2.345158568 | background | background | background | 5 |
|       | ENSG00000146674.14 | 1.84466231  | background | background | background | 5 |
|       | ENSG00000147041.11 | -1.80999530 | background | background | background | 5 |
|       | ENSG00000147113.16 | 2.065668384 | background | background | background | 5 |
|       | ENSG00000147174.11 | 2.88740467  | background | background | background | 5 |
|       | ENSG00000147206.16 | 4.820122653 | background | background | background | 5 |
|       | ENSG00000147576.15 | 2.481230404 | background | background | background | 5 |
|       | ENSG00000147873.5  | 3.575787533 | background | background | background | 5 |
|       | ENSG00000148057.15 | -1.02709718 | background | background | background | 5 |
|       | ENSG00000148082.9  | 1.71093571  | background | background | background | 5 |
|       | ENSG00000148386.9  | 4.797640422 | background | NA         | background | 5  |
|       | ENSG00000148400.9  | 1.254276476 | background | background | background | 5 |
|       | ENSG00000148408.12 | 1.398261926 | background | background | background | 5 |
|       | ENSG00000148600.14 | -1.086030709| background | background | background | 5 |
|       | ENSG00000148604.13 | 1.800503492 | background | background | background | 5 |
|       | ENSG00000148677.6  | -5.064645256| background | background | background | 5 |
|       | ENSG00000148735.14 | 2.210428602 | background | background | background | 5 |
|       | ENSG00000149243.15 | 2.166580601 | background | NA         | background | 5 |
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|       | ENSG00000149577.15 | 1.472449442 | 5          | background | background | 5 |
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|       | ENSG00000149781.12 | 2.573039278 | background | background | background | 5 |
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|       | ENSG00000150637.8  | 2.035291314 | background | background | background | 5 |
|       | ENSG00000150687.11 | -1.351223209| background | background | background | 5 |
|       | ENSG00000151005.4  | 4.663260473 | NA         | background | background | 5 |
|       | ENSG00000151360.9  | 8.638389018 | background | background | background | 5 |
|       | ENSG00000151715.7  | 1.632845204 | background | background | background | 5 |
|       | ENSG00000152137.6  | -3.215210776| background | background | background | 5 |
| ENSG00000152377.13 | 1.26887807 | background | background | background | 3 |
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| ENSG00000153495.10 | 3.920162672 | background | background | background | 5 |
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| ENSG00000154175.16 | 1.042217643 | background | background | background | 4 |
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| ENSG00000155265.10 | 1.386593353 | NA | background | background | 5 |
| ENSG00000155269.11 | 1.98519656 | background | background | background | 5 |
| ENSG00000155495.8 | 2.536196305 | background | background | background | 5 |
| ENSG00000155754.14 | 2.21600947 | background | background | background | 5 |
| ENSG00000155997.7 | 1.3490694 | background | background | background | 4 |
| ENSG00000155194.17 | 2.49995905 | background | background | background | 5 |
| ENSG00000156222.11 | 4.96301429 | background | background | background | 5 |
| ENSG00000156413.13 | 2.66300029 | NA | background | background | 5 |
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| ENSG00000157766.15 | 2.120158013 | background | background | background | 5 |
| ENSG00000158023.9 | 1.556050117 | background | background | background | 5 |
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| ENSG00000158220.13 | 2.01917994 | background | background | background | 5 |
| ENSG00000158373.8 | 2.32693579 | background | background | background | 5 |
| ENSG00000158406.4 | 1.637600981 | NA | background | background | 5 |
| ENSG00000158486.13 | 1.738260878 | background | background | background | 5 |
| ENSG00000158837.3 | 2.10792839 | background | background | background | 5 |
| ENSG00000159289.6 | 1.647428572 | background | background | background | 5 |
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| ENSG00000161905.12 | 2.354162667 | background | background | background | 5 |
| ENSG00000161992.5 | 2.370162583 | background | background | background | 5 |
| Gene Name   | Log2 Fold Change | Background | Background | Background | Background |
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| ENSG00000162039.14 | 3.881681321     | background | background | background | background |
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| ENSG00000162490.6 | 1.37888898      | background | background | background | 5          |
| ENSG00000162511.7 | 3.366502089     | background | background | background | 5          |
| ENSG00000162771.7 | 4.392414614     | background | background | background | 5          |
| ENSG00000162772.16 | -1.116741267    | background | background | background | 5          |
| ENSG00000162777.16 | 3.112134989     | background | background | background | background |
| ENSG00000162782.15 | 3.113397791     | background | background | background | 5          |
| ENSG00000162814.10 | -1.465477253    | background | background | background | 5          |
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| ENSG00000162981.13 | 2.740123907     | background | background | background | 5          |
| ENSG00000163141.18 | 1.600896868     | background | background | background | background |
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| ENSG00000163344.5 | -1.292419968    | background | background | background | 5          |
| ENSG00000163435.15 | 1.785842382     | background | background | background | 5          |
| ENSG00000163576.17 | 1.815630674     | background | background | background | background |
| ENSG00000163683.11 | -1.269530708    | background | background | background | 5          |
| ENSG00000163701.18 | 1.106283436     | background | background | background | 5          |
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| ENSG00000163810.11 | 2.198783388     | background | background | background | 5          |
| ENSG00000163817.15 | 2.504258193     | background | background | background | 5          |
| ENSG00000163879.10 | 2.314503563     | background | background | background | background |
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| ENSG00000164136.16 | 1.683553165     | background | background | background | 5          |
| ENSG00000164258.11 | -1.036408656    | background | background | background | 4          |
| ENSG00000164379.6 | 6.36672637     | NA         | background | background | background |
| ENSG00000164430.15 | 1.914233211     | background | background | background | 5          |
| ENSG00000164591.13 | 2.631711685     | background | background | background | 5          |
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| ENSG00000164938.13 | 1.626256374     | background | background | background | 5          |
| ENSG00000165029.15 | 2.095464743     | background | background | background | 5          |
| ENSG00000165323.15 | -1.167695527    | 5          | background | background | 5          |
| ENSG00000165475.13 | -1.120920218    | background | background | background | 5          |
| ENSG00000165702.13 | 1.674094584     | background | background | background | 5          |
| ENSG00000165905.17 | 1.775999049     | background | background | background | 5          |
| ENSG00000165917.9 | 3.521551532     | background | background | background | background |
| ENSG00000165923.15 | 2.92173893      | background | background | background | 5          |
| ENSG00000165934.12 | -1.017948632    | background | background | background | 5          |
| ENSG00000166033.11 | -1.124650028    | background | background | background | 4          |
| Ensembl ID          | Start   | End   | Expression | Status |
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| ENSG00000166049.10 | 5.022047782 | background | background | 5      |
| ENSG00000166268.10 | 5.573643316 | background | background | 5      |
| ENSG00000166292.11 | -1.222609338 | NA | background | 5      |
| ENSG00000166317.11 | 1.424074125 | background | background | background |
| ENSG00000166405.14 | 2.381679576 | background | background | background |
| ENSG00000166558.10 | 3.984211801 | background | NA | background |
| ENSG00000166707.10 | 1.048385312 | NA | background | background |
| ENSG00000166743.9  | 4.282628707 | background | background | background |
| ENSG00000166762.16 | -1.04474136 | background | background | 5      |
| ENSG00000166819.11 | 2.119335643 | background | background | background |
| ENSG00000166863.11 | 5.364632915 | background | NA | background |
| ENSG00000166866.12 | 1.769458672 | background | background | 5      |
| ENSG00000166963.12 | 1.003178996 | background | background | 5      |
| ENSG00000167103.11 | 1.481132615 | background | background | background |
| ENSG00000167207.12 | 1.879600801 | background | background | 5      |
| ENSG00000167244.18 | 1.261945857 | background | background | background |
| ENSG00000167483.17 | 1.151764629 | background | background | 4      |
| ENSG00000167524.14 | 1.189288289 | background | NA | background |
| ENSG00000167550.10 | 2.108087523 | background | background | background |
| ENSG00000167601.11 | 1.632485956 | background | background | background |
| ENSG00000167676.4  | 1.73626703 | background | NA | background |
| ENSG0000016780.15  | 1.179878253 | background | background | background |
| ENSG00000167711.13 | 3.705373598 | background | background | background |
| ENSG00000167723.14 | 1.186424795 | background | background | 5      |
| ENSG00000167747.14 | -1.288019336 | background | background | background |
| ENSG00000167880.7  | 2.715589031 | background | background | background |
| ENSG00000167945.1  | 2.384678288 | background | NA | NA |
| ENSG00000167992.12 | 2.248918208 | background | background | 5      |
| ENSG00000168077.13 | -1.102705803 | NA | background | 5      |
| ENSG00000168135.4  | 1.656805396 | NA | background | background |
| ENSG00000168140.4  | 1.016313635 | NA | background | 5      |
| ENSG00000168267.6  | 3.111677115 | NA | background | background |
| ENSG00000168314.17 | 5.062306822 | NA | background | 4      |
| ENSG00000168348.3  | 2.121674378 | NA | background | 4      |
| ENSG00000168453.14 | 2.029051471 | background | background | background |
| ENSG00000168477.17 | 1.839444136 | background | background | 5      |
| ENSG00000168878.16 | 1.944091004 | background | background | background |
| ENSG00000168918.13 | 3.604591578 | background | background | 4      |
| ENSG00000168952.15 | -1.076759951 | background | background | 5      |
| ENSG00000168961.16 | 1.192031453 | background | background | background |
| ENSG00000169064.12 | 1.063295173 | background | background | 5      |
| Gene Symbol | Description | Distance from TSS (kb) | Log2 Fold Change | Annotation | Annotation | Annotation | Annotation |
|-------------|-------------|-----------------------|------------------|------------|------------|------------|------------|
| ENSG00000169085.11 | 2.7863516 | background | background | background | background |
| ENSG00000169252.5 | 1.59237999 | background | NA | background | background |
| ENSG00000169288.17 | -1.461742024 | background | background | background | background |
| ENSG00000169402.15 | 1.407232787 | S | background | background | background |
| ENSG00000169885.9 | 2.4696414 | background | background | background | background |
| ENSG00000169896.16 | 5.035220341 | background | background | background | background |
| ENSG00000169991.10 | 1.366259284 | background | background | background | background |
| ENSG00000170074.19 | 3.85466536 | background | NA | background | background |
| ENSG00000170075.8 | 1.79008834 | background | background | background | background |
| ENSG00000170122.5 | 1.153531268 | NA | background | background | background |
| ENSG00000170324.20 | 1.591186135 | background | background | background | background |
| ENSG00000170325.14 | 1.818982908 | background | background | background | background |
| ENSG00000170482.16 | 2.447288597 | background | background | background | background |
| ENSG00000170608.2 | 1.148841927 | NA | background | background | background |
| ENSG00000170835.14 | 1.237579789 | background | background | background | background |
| ENSG00000171033.12 | -1.12621964 | background | background | background | background |
| ENSG00000171094.17 | 4.778329058 | background | background | background | background |
| ENSG00000171124.12 | 2.87332912 | background | background | background | background |
| ENSG00000171219.8 | 1.657684178 | background | NA | background | background |
| ENSG00000171345.13 | 4.539809607 | NA | background | background | background |
| ENSG00000171345.13 | 4.539809607 | background | background | background | background |
| ENSG00000171451.13 | 1.231287339 | NA | background | background | background |
| ENSG00000171522.5 | 1.57624512 | background | background | background | background |
| ENSG00000171533.11 | -1.453844225 | background | background | background | background |
| ENSG00000171540.7 | 2.312093205 | background | background | background | background |
| ENSG00000171794.3 | 3.961568548 | NA | background | background | background |
| ENSG00000171992.12 | 1.35830233 | background | background | background | background |
| ENSG00000172073.3 | 4.029648303 | background | background | background | background |
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| ENSG00000172183.14 | 1.95587787 | NA | background | background | background |
| ENSG00000172209.5 | 3.328676999 | background | background | background | background |
| ENSG00000172232.9 | 4.673466873 | background | background | background | background |
| ENSG00000172324.5 | 1.368339772 | NA | background | background | background |
| ENSG00000172349.17 | 3.14532267 | background | NA | NA | background |
| ENSG00000172640.3 | 1.937844845 | NA | background | background | background |
| ENSG00000172667.10 | 1.05059974 | background | background | background | background |
| ENSG00000172733.11 | 1.113452304 | NA | background | background | background |
| ENSG00000172771.11 | 1.481538048 | background | background | background | background |
| ENSG00000172803.17 | 2.652158314 | background | background | background | background |
| ENSG00000172938.3 | 3.17136907 | NA | NA | NA | background |
| ENSG00000172940.11 | 3.652983101 | background | background | background | background |
| Ensembl Transcript ID | Ratio     | Description | Background | Background | Background |
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| ENSG00000172969.7     | 4.319508497 | NA          | background | background | background |
| ENSG00000172992.11    | -1.082933997 | background  | background | background | background |
| ENSG00000173175.14    | 1.155644128  | background  | background | background | background |
| ENSG00000173200.12    | 1.530766134  | background  | background | background | background |
| ENSG00000173261.8     | 1.050799306  | background  | background | background | background |
| ENSG00000173285.4     | 1.44066875   | NA          | background | background | background |
| ENSG00000173404.4     | 1.136015387  | NA          | background | background | background |
| ENSG00000173530.5     | 1.081387317  | background  | background | background | background |
| ENSG00000173575.20    | 1.34171893   | 5           | 5          |            |            |
| ENSG00000173597.8     | 1.618367327  | 4           | 4          |            |            |
| ENSG00000173702.7     | 5.128437032  | background  | background | background | background |
| ENSG00000173714.7     | 1.943954887  | NA          | background | background | background |
| ENSG00000173728.10    | 2.810867919  | background  | background | background | background |
| ENSG00000173809.17    | 1.694201958  | background  | background | background | background |
| ENSG00000173838.11    | 1.973164707  | background  | background | background | background |
| ENSG00000173846.12    | 1.10029715   | background  | background | background | background |
| ENSG00000174226.8     | 6.104622086  | background  | background | background | background |
| ENSG00000174307.6     | 1.091419218  | background  | background | background | background |
| ENSG00000174358.15    | 5.460851765  | background  | background | background | background |
| ENSG00000174791.10    | 1.764348369  | background  | background | background | background |
| ENSG00000174837.14    | 2.147640061  | 5           | background | background | background |
| ENSG00000174844.14    | 1.756808591  | background  | background | background | background |
| ENSG00000174871.10    | 1.245821147  | background  | background | background | background |
| ENSG00000174898.15    | 2.126507224  | background  | background | background | background |
| ENSG00000174945.13    | 2.905375013  | background  | background | background | background |
| ENSG00000175003.12    | 3.432845912  | background  | background | background | background |
| ENSG00000175093.4     | -1.128078836 | background  | background | background | background |
| ENSG00000175356.12    | 2.610879357  | background  | background | background | background |
| ENSG00000175581.13    | -1.176369873 | background  | background | background | background |
| ENSG00000175592.8     | 1.849998811  | NA          | background | background | background |
| ENSG00000175820.3     | 2.531932201  | background  | background | background | background |
| ENSG00000175894.14    | 1.752884065  | background  | background | background | background |
| ENSG00000175920.16    | 2.360035491  | background  | background | background | background |
| ENSG00000176635.17    | 4.868630022  | background  | background | background | background |
| ENSG00000176788.8     | 1.155896445  | NA          | background | background | background |
| ENSG00000176887.6     | 3.824540489  | NA          | background | background | background |
| ENSG00000176907.4     | -3.223092885 | NA          | background | background | background |
| ENSG00000176945.16    | 1.39199321   | background  | background | background | background |
| ENSG00000177103.13    | 4.660271966  | background  | background | background | background |
| Gene ID            | Log2 Fold Change | Annotation 1 | Annotation 2 | Annotation 3 | Annotation 4 | Class |
|-------------------|-----------------|--------------|--------------|--------------|--------------|-------|
| ENSG00000177106.14| 1.09208719      | background   | background   | background   | background   | 5     |
| ENSG00000177201.2 | 1.169547586     | NA           | background   | background   | background   | 5     |
| ENSG00000177374.12| 2.116643169     | NA           | background   | background   | background   | 5     |
| ENSG00000177483.11| 1.460762899     | NA           | background   | background   | background   | 5     |
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| ENSG00000178467.17| 3.279979633     | background   | background   | background   | background   | 5     |
| ENSG00000178623.11| 1.240386864     | background   | background   | background   | background   | 5     |
| ENSG00000178690.2 | 4.529038732     | NA           | background   | background   | background   | 5     |
| ENSG00000178773.14| 1.155071437     | background   | background   | background   | background   | 5     |
| ENSG00000178809.7 | 1.053652126     | NA           | background   | background   | background   | 5     |
| ENSG00000178928.8 | 4.317577221     | background   | NA           | background   | background   | 5     |
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| ENSG00000179292.4 | 2.246421404     | NA           | background   | background   | background   | 5     |
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| ENSG00000179388.8 | 1.185218791     | NA           | background   | background   | background   | 5     |
| ENSG00000179520.10| 4.946305092     | background   | background   | background   | background   | 5     |
| ENSG00000179564.3 | 1.842443527     | NA           | background   | background   | background   | 5     |
| ENSG00000179583.18| 1.56304352      | background   | background   | background   | background   | 5     |
| ENSG00000179647.3 | -4.982658838    | NA           | background   | background   | background   | 5     |
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| ENSG00000180573.9 | 2.164159115     | NA           | background   | background   | background   | 5     |
| ENSG00000180596.7 | 1.585834313     | NA           | background   | background   | background   | 5     |
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| ENSG00000180638.17| 1.882110331     | background   | background   | background   | background   | 5     |
| ENSG00000180828.2 | 5.39179355      | NA           | background   | background   | background   | 5     |
| ENSG00000180929.5 | 4.106783628     | NA           | background   | background   | background   | 5     |
| ENSG00000181001.2 | 4.65551898      | NA           | NA           | background   | background   | 5     |
| ENSG00000181218.5 | 1.073908593     | NA           | background   | background   | background   | 5     |
| ENSG00000181291.7 | 1.68455706      | background   | background   | background   | background   | 5     |
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| ENSG00000181392.14| 2.044928116     | background   | background   | background   | background   | 5     |
| ENSG00000181444.12| 1.660037573     | background   | background   | background   | background   | 5     |
| ENSG00000181649.5 | 1.216573946     | NA           | background   | background   | background   | 5     |
| Gene ID          | Value       | Differential Expression | Log2 Fold Change | Gene ID          | Value       | Differential Expression | Log2 Fold Change |
|-----------------|-------------|--------------------------|------------------|-----------------|-------------|--------------------------|------------------|
| ENSG00000181785 | 1.1490856   | background               | background       | ENSG00000181856 | 1.0146544 | background               | background       |
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|                 | NA          | background               | background       |                 | 4.2776692   | background               | background       |
|                 | NA          | background               | background       |                 | 1.3229497   | background               | background       |
|                 | 1.2927234   | background               | background       |                 | 1.0321489   | background               | background       |
|                 | 1.4375974   | background               | background       |                 | 1.4598854   | background               | background       |
|                 | 2.2941930   | background               | background       |                 | 2.0034874   | background               | background       |
|                 | 1.0399822   | background               | background       |                 | -1.0825813 | background               | background       |
|                 | -1.0686393  | background               | background       |                 | 1.3126316   | background               | background       |
|                 | 1.5416349   | background               | background       |                 | 1.1006721   | background               | background       |
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|                 | 2.1720287   | background               | background       |                 | 0.1571199   | background               | background       |
|                 | 1.5234193   | background               | background       |                 | 1.6771842   | background               | background       |
|                 | 3.6347533   | background               | background       |                 | 3.4231346   | background               | background       |
|                 | 3.6446322   | background               | background       |                 | 6.1771842   | background               | background       |
|                 | 3.2781248   | background               | background       |                 | 3.2781248   | background               | background       |
|                 | 2.3327738   | background               | background       |                 | 1.0775880   | background               | background       |
|                 | 4.5719575   | background               | background       |                 | -4.105453   | background               | background       |
|                 | 2.0528057   | background               | background       |                 | -1.2592640  | background               | background       |
|                 | 1.5753859   | background               | background       |                 | 1.5492690   | background               | background       |
|                 | -1.1323117  | background               | background       |                 | 1.9810480   | background               | background       |
|                 | 4.1017485   | background               | background       |                 | 1.5492690   | background               | background       |
| Gene ID       | CDS Position | Log2 Ratio | Background | Fold Change |
|--------------|--------------|------------|------------|-------------|
| ENSG00000184903.9 | -1.250261236 | background | background | 5           |
| ENSG00000184911.14 | 7.064781549  | background | background | 5           |
| ENSG00000184956.15 | 2.509248689  | background | background | 5           |
| ENSG00000184984.9  | 1.28047978   | background | background | 5           |
| ENSG00000184985.16 | 3.428634176  | background | background | 5           |
| ENSG00000185070.10 | -1.72366942  | NA         | background | 5           |
| ENSG00000185104.19 | -1.00113872  | background | background | 4           |
| ENSG00000185269.11 | 2.288750167  | background | background | background  |
| ENSG00000185291.11 | 1.71509351   | 5          | background | 5           |
| ENSG00000185304.14 | 1.07767224   | 5          | background | 5           |
| ENSG00000185340.15 | 1.31656496   | background | background | background  |
| ENSG00000185345.18 | -1.023540125 | background | background | 4           |
| ENSG00000185527.11 | 4.453732466  | background | background | background  |
| ENSG00000185532.15 | -1.146758769 | background | background | 4           |
| ENSG00000185608.8  | -1.348772555 | NA         | background | background  |
| ENSG00000185674.9  | 1.324364841  | background | background | background  |
| ENSG00000185736.15 | 3.750287196  | background | background | 5           |
| ENSG00000185761.10 | 1.222319444  | background | background | background  |
| ENSG00000185792.9  | 4.34938248   | 5          | background | 5           |
| ENSG00000185974.6  | 6.375438435  | background | background | 5           |
| ENSG00000185988.12 | 2.348131148  | background | background | background  |
| ENSG00000186115.12 | 2.90534155   | background | background | background  |
| ENSG00000186150.4  | 2.51304078   | NA         | background | background  |
| ENSG00000186281.12 | 1.83366488   | background | background | 5           |
| ENSG00000186329.9  | 1.084436995  | NA         | background | 5           |
| ENSG00000186354.10 | 2.148960957  | background | background | background  |
| ENSG00000186510.11 | 3.01649777   | background | background | background  |
| ENSG00000186517.13 | 1.133436777  | background | background | background  |
| ENSG00000186529.15 | 3.399260659  | background | background | 5           |
| ENSG00000186642.15 | 2.716504294  | background | background | background  |
| ENSG00000186723.4  | 1.048304381  | NA         | background | background  |
| ENSG00000186765.11 | 1.466991561  | background | background | background  |
| ENSG00000186854.10 | 1.063957749  | background | background | 5           |
| ENSG00000186976.14 | 1.350325561  | background | background | 4           |
| ENSG00000186994.11 | 1.499212159  | background | background | background  |
| ENSG00000187017.15 | 4.026493911  | background | background | 5           |
| ENSG00000187026.2  | -5.567747471 | NA         | background | background  |
| ENSG00000187583.10 | 2.776140189  | background | background | background  |
| ENSG00000187726.8  | 1.303507534  | background | background | background  |
| ENSG00000188796.14 | 1.368226055  | background | background | background  |
| ENSG00000187800.13 | 3.746052111 | background | background | background | 5 |
| ENSG00000187837.3 | 2.220724114 | NA | NA | NA | background |
| ENSG00000187848.12 | 1.676674248 | background | NA | NA | background |
| ENSG00000187867.8 | 2.956095876 | background | NA | background | background |
| ENSG00000187902.11 | 1.474239288 | background | NA | background | background |
| ENSG00000188037.10 | -1.120650229 | NA | NA | background | background |
| ENSG00000188095.4 | -1.185643287 | background | background | background | background |
| ENSG00000188177.13 | 1.040523865 | background | background | background | background |
| ENSG00000188227.12 | 1.676674248 | background | NA | background | background |
| ENSG00000188385.11 | 2.690313119 | background | background | background | background |
| ENSG00000188483.7 | -4.620930699 | background | background | background | background |
| ENSG00000188672.17 | 4.571329848 | NA | NA | background | background |
| ENSG00000188674.10 | 1.249272421 | NA | background | background | background |
| ENSG00000188729.6 | -0.56670484 | background | NA | NA | background |
| Probe ID          | Gene ID          | Genomic Location | Expression Value | Fold Change | Score | Significance | Background Color |
|-------------------|------------------|------------------|------------------|-------------|-------|--------------|------------------|
| ENSG00000197903.7 | ENSG00000197921.5| 6                | 1.87627702       | NA          | NA    | background   | background        |
| ENSG00000198026.7 | ENSG00000198028.3| 6                | 5.27941706       | 5           | background | background   | background        |
| ENSG00000198028.3 | ENSG00000198034.3| 6                | 5.54337627       | background  | background | background   | background        |
| ENSG00000198400.11| ENSG00000198523.5| 6                | 4.946167908      | 5           | background | background   | background        |
| ENSG00000198576.3 | ENSG00000198835.3| 6                | 1.863635483      | 5           | background | background   | background        |
| ENSG00000198835.3 | ENSG00000198892.6| 6                | 1.580376442      | background  | background | background   | background        |
| ENSG00000198939.7 | ENSG00000203685.9| 6                | 1.748803849      | 5           | background | background   | background        |
| ENSG00000203811.1 | ENSG00000203812.2| 6                | 2.285777057      | background  | background | background   | background        |
| ENSG00000203814.6 | ENSG00000203852.3| 6                | 2.285777057      | background  | background | background   | background        |
| ENSG00000204001.9 | ENSG00000204086.4| 6                | 4.859097651      | background  | background | background   | background        |
| ENSG00000204103.3 | ENSG00000204129.9| 6                | 2.93145093       | background  | background | background   | background        |
| ENSG00000204323.5 | ENSG00000204385.10| 6               | 3.179994303      | background  | background | background   | background        |
| Gene ID     | Value         | Type   | Additional Information | Count |
|------------|---------------|--------|-------------------------|-------|
| ENSG00000205832.7 | 1.411025978 | background | NA | 5 |
| ENSG00000205853.10  | 1.042492552 | background | background | |
| ENSG00000206140.10  | 1.156500785 | background | background | |
| ENSG00000206150.3  | 5.174079434 | NA | background | |
| ENSG00000206172.8  | 1.956950721 | background | background | |
| ENSG00000212643.2  | 1.346318998 | NA | background | |
| ENSG00000213398.7  | 1.529541251 | background | background | |
| ENSG00000213578.5  | 2.89960386  | background | background | |
| ENSG00000213593.9  | -1.26647017 | background | background | |
| ENSG00000213714.1  | 4.701548267 | background | NA | |
| ENSG00000214814.7  | 3.58116751  | background | background | |
| ENSG00000214897.4  | 3.414807469 | NA | background | |
| ENSG00000214944.9  | 1.72613216  | background | background | |
| ENSG00000215529.12 | 4.701548267 | background | NA | |
| ENSG00000215644.9  | 3.591327427 | background | background | |
| ENSG00000221821.3  | -1.950390651 | NA | background | |
| ENSG00000221963.5  | 1.209557438 | background | background | |
| ENSG00000221986.6  | 6.173179926 | background | background | |
| ENSG00000223417.4  | 6.030407221 | background | background | |
| ENSG00000223443.2  | 3.969050912 | NA | background | |
| ENSG00000223547.9  | 1.23630503  | background | background | |
| ENSG00000223573.6  | 1.862915602 | background | background | |
| ENSG00000223638.3  | 2.077094126 | background | NA | |
| ENSG00000223658.7  | -1.315414902 | NA | background | |
| ENSG00000224389.8  | 1.848137477 | background | background | |
| ENSG00000224440.1  | 4.789733037 | NA | background | |
| ENSG00000224960.4  | 4.721691059 | NA | background | |
| ENSG00000225614.2  | 2.427378142 | NA | background | |
| ENSG00000225899.7  | 3.49695873  | NA | background | |
| ENSG00000226174.6  | 1.584554644 | NA | background | |
| ENSG00000226650.5  | 3.101902086 | NA | background | |
| ENSG00000226763.4  | 1.064904768 | NA | background | |
| ENSG00000227471.8  | 1.630107927 | background | NA | |
| ENSG00000228672.3  | 1.21102593  | NA | background | |
| ENSG00000229183.8  | 6.422417522 | background | background | |
| ENSG00000229292.1  | 4.434975835 | background | NA | |
| ENSG00000229544.8  | 1.397840476 | NA | background | |
| ENSG00000229859.9  | 4.747656497 | background | background | |
| ENSG00000231192.2  | 1.10287177 | NA | NA | |
| ENSG00000232237.3  | 2.193199978 | NA | background | |
| Gene Symbol       | Log2 Fold Change | Status | Background | 
|-------------------|-----------------|--------|------------|
| ENSG00000233136.2 | 9.658118457     | NA     | background |
| ENSG00000233822.4 | 1.639808531     | NA     | background |
| ENSG00000234289.5 | 1.725981001     | NA     | background |
| ENSG00000235098.8 | 2.851201661     | NA     | background |
| ENSG00000235268.2 | 4.346845334     | NA     | background |
| ENSG00000239732.3 | 4.781333703     | NA     | background |
| ENSG00000240021.9 | 1.54931836      | NA     | background |
| ENSG00000240583.11| 1.382817123     | NA     | background |
| ENSG00000241563.3 | 1.381640444     | NA     | background |
| ENSG00000241945.7 | 1.181475479     | NA     | background |
| ENSG00000242265.5 | 1.1181475479    | NA     | background |
| ENSG00000242689.2 | 1.217838729     | NA     | background |
| ENSG00000243207.6 | 1.56667258      | NA     | background |
| ENSG00000243749.1 | -1.177067308    | NA     | background |
| ENSG00000244242.1 | 2.631449556     | NA     | background |
| ENSG00000244482.5 | 1.907877049     | NA     | background |
| ENSG00000244607.5 | 1.063767438     | NA     | background |
| ENSG00000244731.7 | 1.45736858      | NA     | background |
| ENSG00000246922.8 | 1.127578564     | NA     | background |
| ENSG00000248167.7 | 1.209403856     | NA     | background |
| ENSG00000248713.1 | 3.877240671     | NA     | background |
| ENSG00000248933.2 | 4.059998625     | NA     | background |
| ENSG00000249156.2 | 3.94478648      | NA     | background |
| ENSG00000250991.2 | 1.223791389     | NA     | background |
| ENSG00000250423.2 | 3.747898689     | NA     | background |
| ENSG00000250673.2 | 1.17313238      | NA     | background |
| ENSG00000250722.5 | -1.294596804    | NA     | background |
| ENSG00000251258.1 | 5.819722992     | NA     | background |
| ENSG00000251357.4 | 1.276751773     | NA     | background |
| ENSG00000251537.4 | 1.697540742     | NA     | background |
| ENSG00000254206.5 | 1.134900532     | NA     | background |
| ENSG00000254415.3 | 2.104702553     | NA     | background |
| ENSG00000254827.5 | 4.422863091     | NA     | background |
| ENSG00000255150.2 | 2.813471362     | NA     | background |
| ENSG00000255398.2 | 4.264100522     | NA     | background |
| ENSG00000255855.2 | 5.425029016     | NA     | background |
| ENSG00000256162.2 | 4.098099928     | NA     | background |
| ENSG00000257017.4 | 2.522647144     | NA     | background |
| ENSG00000258867.8 | 1.168371081     | NA     | background |
| ENSG00000258986.6 | -1.960720628    | NA     | background |
| Gene ID          | Expression   | Type 1 | Type 2 | Type 3 | Type 4 | Type 5 |
|-----------------|--------------|--------|--------|--------|--------|--------|
| ENSG00000259399.1 | 1.359508802  | background | background | background | background | 5 |
| ENSG00000260286.3   | 4.736650384  | NA     | background | background | background | 5 |
| ENSG00000260325.1   | 1.588327139  | NA     | background | background | background | 5 |
| ENSG00000261150.2   | 1.557329765  | background | background | background | background | 5 |
| ENSG00000261308.2   | 2.23442491   | NA     | background | background | background | 5 |
| ENSG00000261341.6   | 1.417560037  | NA     | background | background | background | 5 |
| ENSG00000261678.2   | 2.657912871  | background | background | background | background | 5 |
| ENSG00000261857.6   | 3.870322817  | background | background | background | background | 5 |
| ENSG00000264668.1   | -1.299730941 | background | background | background | background | 5 |
| ENSG00000265817.2   | -1.676398888 | background | NA       | NA       | 4      |
| ENSG00000266733.5   | 1.873897472  | background | background | background | background | 5 |
| ENSG00000267041.5   | 1.330358351  | background | background | background | background | 5 |
| ENSG00000267978.5   | 2.0107284    | NA     | background | background | background | 5 |
| ENSG00000268089.2   | 1.825227528  | background | background | background | background | 5 |
| ENSG00000268655.2   | 1.975080861  | background | background | background | background | 5 |
| ENSG00000269897.5   | -1.029802472 | background | background | background | background | 5 |
| ENSG00000270276.2   | 1.956324575  | NA     | background | background | background | 5 |
| ENSG00000270882.2   | 2.224182695  | NA     | background | background | background | 5 |
| ENSG00000270946.5   | -2.720930454 | background | background | background | background | 5 |
| ENSG00000271425.7   | 1.369557303  | background | background | NA       | background | 5 |
| ENSG00000272968.5   | 1.263616444  | background | background | background | background | 5 |
| ENSG00000274286.1   | 3.132900039  | NA     | background | background | background | 5 |
| ENSG00000274290.2   | 2.156691403  | NA     | background | background | background | 5 |
| ENSG00000274559.3   | 1.725981001  | NA     | background | background | background | 5 |
| ENSG00000274744.1   | 6.326197485  | NA     | NA       | NA       | background | 5 |
| ENSG00000274750.2   | 1.659666174  | NA     | NA       | background | background | 5 |
| ENSG00000275832.4   | 1.351492023  | background | background | background | background | 5 |
| ENSG00000275993.2   | 1.282060095  | background | background | background | background | 5 |
| ENSG00000276180.1   | 1.680966505  | NA     | background | background | background | 5 |
| ENSG00000276966.2   | 1.86578518   | NA     | background | background | background | 5 |
| ENSG00000277481.1   | 2.693368539  | background | NA       | NA       | 5      |
| ENSG00000277745.1   | 2.75914106   | NA     | background | background | background | 5 |
| ENSG00000278558.4   | 1.187702757  | background | background | NA       | background | 5 |
| ENSG00000278685.4   | 3.05298652   | background | background | background | background | 5 |
| ENSG00000282804.1   | 4.064088149  | background | NA       | background | background | 5 |
| ENSG00000282988.1   | 2.956854543  | NA     | background | background | background | 5 |
| ENSG00000283439.1   | 4.211942317  | background | NA       | NA       | background | 5 |
| ENSG00000283516.1   | 2.889251414  | background | background | background | background | 5 |
| ENSG00000283654.1   | 4.539391236  | background | background | background | background | 5 |
| ENSG00000283873.1   | 4.260470683  | NA     | NA       | NA       | background | 5 |
| ENSG00000284713.1   | 6.012676331  | NA     | background | background | background | 5 |
| Gene ID          | Value       | Background 1 | Background 2 | Background 3 | Background 4 |
|-----------------|-------------|--------------|--------------|--------------|--------------|
| ENSG00000073910.20 | 1.077732523 | 4            | 4            |              |              |
| ENSG00000107796.13 | 1.057379406 | 4            | 4            |              |              |
| ENSG00000147606.8 | 1.299660744 | 5            | 4            |              |              |
| ENSG00000151967.18 | -1.805899296 | 4           | 4            |              |              |
| ENSG00000158683.7 | 1.663150593 | 5            | 4            |              |              |
| ENSG00000161939.19 | 1.099008965 | background NA | background |              |              |
| ENSG00000162825.12 | 1.115759714 | 5            | 3            |              |              |
| ENSG00000167476.10 | 1.077666329 | background NA | background |              |              |
| ENSG00000173597.8 | 1.111567969 | background NA | background |              |              |
| ENSG00000175820.3 | 1.312552080 | background NA | background |              |              |
| ENSG00000183091.19 | 1.260870595 | background NA | background |              |              |
| ENSG00000188234.13 | 1.100742442 | 5            | 4            |              |              |
| ENSG00000188687.17 | 1.373145887 | background NA | background |              |              |
| ENSG00000213398.7 | 1.242263492 | background NA | background |              |              |
| ENSG00000223573.6 | 1.100398292 | background NA | background |              |              |
| ENSG00000240038.6 | 1.418448080 | background NA | background |              |              |
| ENSG00000260537.2 | -1.102097684 | background NA | background |              |              |
| ENSG00000271425.7 | 1.181451854 | background NA | background |              |              |
| ENSG00000010671.15 | 2.286385494 | background NA | background |              |              |
| ENSG00000068976.13 | 1.600316398 | background NA | background |              |              |
| ENSG00000085465.12 | 1.249187813 | background NA | background |              |              |
| ENSG00000087245.12 | 1.916414960 | background NA | background |              |              |
| ENSG00000099866.14 | 1.053962549 | NA           | background |              |              |
| ENSG00000100276.9 | 2.504681538 | background NA | background |              |              |
| ENSG00000101638.13 | -1.128956680 | background NA | background |              |              |
| ENSG00000102057.9 | 1.544353768 | background NA | background |              |              |
| ENSG00000105146.12 | -1.420082234 | background NA | background |              |              |
| ENSG00000107796.13 | 1.797462856 | background NA | background |              |              |
| ENSG00000109063.14 | 1.236420205 | background NA | background |              |              |
| ENSG00000111087.9 | -1.506448036 | background NA | background |              |              |
| ENSG00000113597.17 | -1.096192372 | background NA | background |              |              |
| ENSG00000119737.5 | 1.017993138 | NA           | background |              |              |
| ENSG00000122641.10 | 1.669956192 | NA           | background |              |              |
| ENSG00000124762.13 | 1.917415513 | NA           | background |              |              |
| ENSG00000125337.16 | 1.157336003 | background NA | background |              |              |
| ENSG00000128342.4 | 3.335353143 | background NA | background |              |              |
| ENSG00000129048.6 | 1.062460530 | NA           | background |              |              |
| ENSG00000130561.16 | 1.634115149 | background NA | background |              |              |
| ENSG00000130649.9 | -1.114202905 | background NA | background |              |              |
| ENSG00000130943.6 | 1.230632749 | NA           | background |              |              |
| Gene ID          | Log2 Fold Change | Cell Line | STIM | Real | Predicted |
|-----------------|-----------------|-----------|------|------|-----------|
| ENSG00000131080.14 | 2.170429163     | background | background | background | background |
| ENSG00000134962.6  | 2.112786878      | 5         | background | background | 5          |
| ENSG00000135407.10 | 1.402674468      | background | background | NA      | 5          |
| ENSG00000135423.12 | 1.747245321      | background | background | background | 4          |
| ENSG00000136048.13 | 1.490973371      | background | background | background | 5          |
| ENSG00000140993.10 | 1.216195699      | NA        | background | background | background |
| ENSG00000142675.17 | 1.230829031      | background | background | background | 4          |
| ENSG00000144655.14 | 1.11968639       | background | background | background | background |
| ENSG00000146006.7  | 2.307426002      | NA        | background | 5       | 5          |
| ENSG00000146729.9  | -1.094623342     | background | background | background | 5          |
| ENSG0000015307.16  | -1.225340495     | 4         | background | background | 4          |
| ENSG00000161955.16 | 1.397818126      | background | background | background | background |
| ENSG00000163071.10 | 1.320353714      | background | background | 5       | 5          |
| ENSG00000165029.15 | 1.977674238      | background | background | background | 4          |
| ENSG00000166405.14 | 3.146840077      | background | background | background | 4          |
| ENSG00000168918.13 | 1.67525729       | 5         | background | background | 5          |
| ENSG00000170122.5  | 1.09306849       | NA        | background | background | background |
| ENSG00000171219.8  | 1.295752042      | background | NA      | background | background |
| ENSG00000175356.12 | 2.151348105      | background | background | background | 3          |
| ENSG00000175592.8  | 2.160346912      | NA        | background | background | 5          |
| ENSG00000175894.14 | 1.469919701      | background | background | background | 4          |
| ENSG00000176907.4  | 1.352932621      | NA        | background | background | background |
| ENSG00000177076.5  | 1.520837131      | background | background | background | 5          |
| ENSG00000179583.18 | 1.466482876      | background | background | background | 5          |
| ENSG00000180525.11 | 1.467432507      | background | background | background | 5          |
| ENSG00000180626.9  | 1.43003275       | NA        | background | background | 5          |
| ENSG00000181016.9  | 2.672133232      | NA        | background | background | 5          |
| ENSG00000184678.10 | 1.48250341       | NA        | background | background | background |
| ENSG00000184985.16 | 2.032283977      | background | background | background | 4          |
| ENSG00000186517.13 | 1.692136631      | background | background | background | 5          |
| ENSG00000186994.11 | 1.495488629      | background | background | background | 5          |
| ENSG00000188316.13 | -1.487634171     | 5         | background | background | 5          |
| ENSG00000188687.17 | 1.214137318      | background | background | background | 4          |
| ENSG00000197093.10 | 1.61090678       | background | background | background | background |
| ENSG00000197128.11 | 1.135663409      | background | background | 5       | 5          |
| ENSG00000197576.13 | 1.17724812       | NA        | background | 5       | 5          |
| ENSG00000197852.9  | 1.149170548      | NA        | background | 5       | 4          |
| ENSG00000198133.8  | 1.004204989      | background | background | background | 4          |
| ENSG00000203811.1  | 1.747567476      | NA        | background | background | background |
| ENSG00000203852.3  | 1.747567476      | NA        | background | background | background |
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| ENSG00000205359.9 | -1.348548276 | background | background | background |
| ENSG00000213398.7 | 1.568809571 | background | background | background |
| ENSG00000214212.8 | 1.174729195 | background | background | background |
| ENSG00000227268.3 | 1.026391143 | background | background | background |
| ENSG00000228672.3 | 1.026024393 | background | background | background |
| ENSG00000233822.4 | 1.39285026 | background | NA | background |
| ENSG00000237475.0 | 1.381706196 | background | NA | background |
| ENSG00000274750.2 | 1.683967392 | background | background | background |
| ENSG00000002745.12 | 2.878084944 | background | background | background |
| ENSG00000004776.12 | 1.2469631 | background | background | background |
| ENSG00000005243.9 | 1.757911058 | background | background | background |
| ENSG00000005513.9 | -1.14667199 | background | background | background |
| ENSG00000010282.14 | 3.279481006 | background | background | background |
| ENSG00000010327.10 | 1.482622221 | background | background | background |
| ENSG00000010379.15 | 3.767670301 | background | background | 5 | 5 |
| ENSG00000010671.15 | 2.31572739 | background | background | 5 | 5 |
| ENSG00000010704.18 | 2.417961318 | background | NA | 5 | 5 |
| ENSG00000010704.18 | -1.222163671 | background | background | 5 | 5 |
| ENSG00000012504.13 | 5.244815715 | background | background | 5 |
| ENSG00000014914.20 | 1.225370602 | background | background | background |
| ENSG00000015285.10 | 1.139223285 | background | background | 5 | 5 |
| ENSG00000015520.14 | 1.500144 | background | background | background |
| ENSG00000019582.14 | 2.427115384 | background | background | 5 | 5 |
| ENSG00000036828.15 | 1.21492485 | background | background | 4 | 4 |
| ENSG00000039139.9 | -3.795047115 | 5 | background | background | 4 | 4 |
| ENSG00000039987.6 | 1.571130678 | background | NA | background | background |
| ENSG00000041982.15 | -1.441904504 | 4 | 4 | background | 4 | 4 |
| ENSG00000042832.11 | 3.426265961 | background | background | background | 5 | 5 |
| ENSG00000047457.13 | 3.345723347 | background | background | background | 5 | 5 |
| ENSG00000050555.17 | -1.347551642 | background | background | background | 5 | 5 |
| ENSG00000057468.6 | 1.410409691 | background | background | background | 5 | 5 |
| ENSG00000064300.8 | 3.01516958 | background | background | background | 5 | 5 |
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| ENSG00000068976.13 | 3.454255103 | background | background | background | 5 | 5 |
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| ENSG00000074410.13 | -1.185657956 | background | background | background | 5 | 5 |
| ENSG00000074660.15 | 2.525377994 | background | background | background | 5 | 5 |
| ENSG00000074803.17 | 3.890122389 | 5 | background | background | 4 | 4 |
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| ENSG         | 9       | 1.327338857 | background | background | background | 5   |
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| ENSG         | 9       | 2.032170011 | background | background | background | 5   |
| ENSG         | 9       | 1.235943101 | background | background | background | 5   |
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| ENSG         | 9       | 1.235943101 | background | background | background | 5   |
| ENSG         | 9       | 1.187680152 | NA         | background | background | background |
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| ENSG         | 9       | 1.668939629 | background | background | background | 5   |
| ENSG         | 9       | 3.322137836 | background | background | background | 5   |
|                          | ENSG00000103710 | 5.336724173 | background | background | 5 | 5 |
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|                          | ENSG00000104524 | -1.143701699| background | background | 5 |
|                          | ENSG00000105131 | 2.453573735 | background | background | 5 |
|                          | ENSG00000105219 | 2.641499368 | NA         | background | 5 |
|                          | ENSG00000105369 | 3.271699792 | background | background | 5 |
|                          | ENSG00000105376 | -1.065661904| NA         | background | 5 |
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|                          | ENSG00000105996 | 1.515107133 | NA         | background | 5 |
|                          | ENSG00000106484 | 3.018159127 | S          | background | 4 |
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|                          | ENSG00000107611 | 2.079475468 | background | background | 3 |
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|                          | ENSG00000109063 | 1.604106038 | S          | background | 5 |
|                          | ENSG00000110876 | 2.716924674 | NA         | background | 5 |
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|                          | ENSG00000112116 | 7.261802995 | background | background | 5 |
|                          | ENSG00000112667 | -1.017681825| NA         | background | 5 |
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|                          | ENSG00000113555 | 1.191193144 | background | background | 5 |
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|                          | ENSG00000115850 | 6.362302989 | background | background | 5 |
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|                          | ENSG00000118137 | 2.526052484 | background | background | 5 |
| gene          | log2FoldChange | p-value | adj.p-value | symbol  |
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| ENSG00000118298.10 | 1.677808137    | 5       | background   | 9       |
| ENSG00000118322.12 | 1.913598678    | 4       | background   | 9       |
| ENSG00000118514.13 | 1.481468056    | 5       | background   | 9       |
| ENSG00000119283.15 | 2.034088452    | 5       | background   | 9       |
| ENSG00000119681.11 | 1.998144518    | 5       | background   | 9       |
| ENSG00000119714.10 | 2.0279995      | 5       | background   | 9       |
| ENSG00000119715.14 | -1.5745238     | 5       | background   | 9       |
| ENSG00000119737.5  | 1.333561312    | 5       | background   | 9       |
| ENSG00000119915.4  | 6.842904215    | 5       | background   | 9       |
| ENSG00000120669.15 | 3.20417433     | 5       | background   | 9       |
| ENSG00000121577.13 | 1.457856086    | 5       | background   | 9       |
| ENSG00000121769.7  | 1.072583472    | 5       | background   | 9       |
| ENSG00000121904.17 | 1.73311057     | 4       | background   | 9       |
| ENSG00000121905.9  | 1.978193627    | 5       | background   | 9       |
| ENSG00000122367.19 | 1.057979636    | 4       | background   | 9       |
| ENSG00000123901.8  | 1.832962037    | 4       | background   | 9       |
| ENSG00000124019.9  | 4.068751421    | 5       | background   | 9       |
| ENSG00000124103.8  | 1.98009174     | 5       | background   | 9       |
| ENSG00000124391.4  | 2.725649488    | 5       | background   | 9       |
| ENSG00000124635.8  | 1.078052996    | 5       | background   | 9       |
| ENSG00000125337.16 | 1.874267401    | 5       | background   | 9       |
| ENSG00000125508.3  | 3.469902329    | 4       | background   | 9       |
| ENSG00000125637.15 | -1.296635716   | 4       | background   | 9       |
| ENSG00000125998.7  | 3.930346599    | 5       | background   | 9       |
| ENSG00000126016.15 | -1.035633002   | 5       | background   | 9       |
| ENSG00000126231.13 | 1.874970409    | 5       | background   | 9       |
| ENSG00000126562.16 | 1.109490087    | 5       | background   | 9       |
| ENSG00000126759.13 | 1.364898333    | 5       | background   | 9       |
| ENSG00000126817.12 | -1.046899142   | 3       | background   | 9       |
| ENSG00000126895.13 | 3.747894782    | 5       | background   | 9       |
| ENSG00000127364.3  | 1.543278637    | 5       | background   | 9       |
| ENSG00000127366.5  | 1.083133275    | 5       | background   | 9       |
| ENSG00000127530.3  | 1.252921372    | 5       | background   | 9       |
| ENSG00000128271.21 | -1.291673125   | 5       | background   | 9       |
| ENSG00000128342.4  | 1.024193809    | 5       | background   | 9       |
| ENSG00000129226.13 | 3.528544048    | 5       | background   | 9       |
| ENSG00000129749.3  | 1.340349102    | 5       | background   | 9       |
| ENSG00000129946.10 | -1.142765207   | 5       | background   | 9       |
| ENSG00000130055.13 | 2.883225119    | 5       | background   | 9       |
| ENSG00000130270.16 | 1.825915108    | 5       | background   | 9       |
| ENSG00000130561.16 | 2.531223757    | 4       | background   | 9       |
| Gene ID          | Value       | Status       | Score    | Rank |
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| ENSG00000138356.13 | 2.966765006 | background   | background | 4    |
| ENSG00000138823.13 | 1.078369741 | background   | background | 5    |
| ENSG00000139289.13 | 1.483928499 | NA           | background | background | 5    |
| ENSG00000139597.17 | 1.670190072 | background   | background | 5    |
| ENSG00000140287.10 | 5.221379412 | background   | background | 5    |
| ENSG00000140403.12 | 1.438307074 | background   | background | 4    |
| ENSG00000140795.12 | 1.133683493 | background   | background | 5    |
| ENSG00000141349.9  | 2.794356231 | background   | background | 5    |
| ENSG00000141934.9  | 1.580397985 | background   | background | background | 5    |
| ENSG00000141959.16 | -1.043287891 | NA           | background | background | 5    |
| ENSG00000142661.18 | 2.162219901 | background   | background | 5    |
| ENSG00000143107.8  | 2.794356231 | background   | background | 5    |
| ENSG00000143110.11 | 3.077623924 | background   | background | 5    |
| ENSG00000143369.14 | 1.735810197 | background   | background | 5    |
| ENSG00000143552.9  | 2.517230152 | background   | background | 4    |
| ENSG00000143632.14 | 2.341568567 | background   | background | 5    |
| ENSG00000143768.12 | 2.588216068 | background   | background | 5    |
| ENSG00000143850.13 | 2.200073366 | background   | background | 5    |
| ENSG00000144671.10 | 4.279170076 | background   | background | 4    |
| ENSG00000144821.9  | 1.135271515 | background   | background | 4    |
| ENSG00000145040.3  | 2.730330267 | NA           | background | background | 5    |
| ENSG00000145642.11 | -1.549411531 | background   | background | 5    |
| ENSG00000146021.14 | 3.094738661 | background   | background | 5    |
| ENSG00000146453.12 | 3.693450482 | background   | background | 4    |
| ENSG00000147041.11 | -1.069840289 | background   | background | 5    |
| ENSG00000147113.16 | 2.901905803 | background   | background | 5    |
| ENSG00000147166.10 | 2.137036443 | background   | background | 5    |
| ENSG00000147174.11 | 2.934286712 | background   | background | 5    |
| ENSG00000147465.11 | 1.867322467 | background   | background | 5    |
| ENSG00000147655.10 | 1.8979196 | background   | background | 4    |
| ENSG00000147873.5  | 5.02491054 | NA           | background | background | 5    |
| ENSG00000148156.7  | 3.384734037 | NA           | background | background | 5    |
| ENSG00000148482.11 | 5.309989942 | background   | background | 5    |
| ENSG00000148483.8  | 1.796256211 | background   | background | 5    |
| Ensembl Gene ID | Feature 1 Value | Feature 2 Value | Feature 3 Value | Feature 4 Value | Feature 5 Value |
|----------------|----------------|----------------|----------------|----------------|----------------|
| ENSG00000148803.11 | -1.198576562 | background | background | background | background |
| ENSG00000149256.15 | -1.33320761 | background | background | background | background |
| ENSG00000149506.11 | 3.459683654 | background | NA | background | background |
| ENSG00000149577.15 | 1.04835003 | background | background | background | background |
| ENSG00000149813.12 | 1.373585908 | background | background | background | background |
| ENSG00000149826.13 | 1.42614784 | background | background | background | background |
| ENSG00000150637.8 | 1.982040846 | background | background | background | background |
| ENSG00000151360.9 | 6.331281815 | background | background | background | background |
| ENSG00000151475.5 | 4.107762217 | background | background | background | background |
| ENSG00000151687.14 | 1.477085018 | background | background | background | background |
| ENSG00000152377.13 | 1.406482341 | background | background | background | background |
| ENSG00000152433.14 | 2.194536473 | background | background | background | background |
| ENSG00000152689.17 | 1.395494369 | background | background | background | background |
| ENSG00000153060.7 | 3.495717521 | background | background | background | background |
| ENSG00000153294.11 | 3.623469085 | background | background | background | background |
| ENSG00000153495.10 | 4.048075274 | background | background | background | background |
| ENSG00000153707.16 | -1.286326945 | background | background | background | background |
| ENSG00000154099.17 | 1.00262407 | background | background | background | background |
| ENSG00000154227.13 | 3.461267923 | background | background | background | background |
| ENSG00000154237.12 | 1.108902043 | 5 | background | background | background |
| ENSG00000154997.8 | 1.398050707 | background | background | background | background |
| ENSG00000155026.16 | 2.24358435 | background | background | background | background |
| ENSG00000155719.16 | 3.271202649 | background | NA | background | background |
| ENSG00000155749.12 | 1.86343883 | background | background | background | background |
| ENSG00000155754.14 | 3.137826714 | background | background | background | background |
| ENSG00000155763.17 | 2.030753238 | background | background | background | background |
| ENSG00000156232.7 | 1.43304956 | background | background | background | background |
| ENSG00000156427.7 | 3.876941043 | background | background | background | background |
| ENSG00000156510.12 | 4.966277014 | background | background | background | background |
| ENSG00000156959.8 | 3.225766292 | background | background | background | background |
| ENSG00000157227.12 | 1.326617558 | background | background | background | background |
| ENSG00000157593.11 | 1.570553198 | background | background | background | background |
| ENSG00000157654.17 | -2.12538918 | background | background | background | background |
| ENSG00000157680.15 | 3.100361621 | background | NA | background | background |
| ENSG00000158023.9 | 1.267793784 | background | background | background | background |
| ENSG00000158050.4 | -1.307355051 | background | background | background | background |
| ENSG00000158113.12 | 3.651567896 | background | background | background | background |
| ENSG00000158220.13 | 2.86988343 | background | background | background | background |
| ENSG00000158258.16 | -1.281290527 | background | background | background | background |
| ENSG00000158445.9 | 1.301717031 | NA | background | background | background |
| Gene ID       | Log2 Fold Change | Background 1 | Background 2 | Background 3 | Background 4 |
|--------------|-----------------|--------------|--------------|--------------|--------------|
| ENSG00000158683.7 | 2.987641153     | background   | background   | background   | 5            |
| ENSG00000158865.12 | 2.968679107     | background   | background   | background   | 5            |
| ENSG00000159289.6 | 1.871603421     | background   | background   | background   | background   |
| ENSG00000159588.14 | 1.493481661     | background   | background   | background   | background   |
| ENSG00000159899.14 | 1.95933672      | background   | background   | background   | 4            |
| ENSG00000161551.14 | 1.056106944     | S            | background   | background   | 5            |
| ENSG00000161905.12 | 2.493562085     | background   | background   | background   | 5            |
| ENSG00000161939.19 | 1.65964759      | background   | background   | background   | 5            |
| ENSG00000162069.14 | -1.067726032    | background   | background   | background   | 5            |
| ENSG00000162267.12 | 2.507933524     | background   | background   | background   | 5            |
| ENSG00000162771.7 | 8.559033113     | NA           | background   | background   | background   |
| ENSG00000162782.15 | 2.706059115     | background   | background   | background   | 5            |
| ENSG00000162944.10 | 1.35386474      | background   | background   | background   | 5            |
| ENSG00000162998.4 | 1.879519957     | background   | background   | background   | 5            |
| ENSG00000163141.18 | 2.516248137     | background   | background   | background   | background   |
| ENSG00000163263.6 | 2.688143789     | background   | background   | background   | background   |
| ENSG00000163435.15 | 1.84957619      | background   | background   | background   | background   |
| ENSG00000163631.16 | 1.332975801     | background   | background   | background   | 5            |
| ENSG00000163701.18 | 1.9527334       | background   | background   | background   | background   |
| ENSG00000163806.15 | 1.381178539     | background   | background   | background   | 5            |
| ENSG00000163817.15 | 1.97710133      | background   | background   | background   | 5            |
| ENSG00000163879.10 | 1.61292249      | background   | background   | background   | 5            |
| ENSG00000163993.6 | 2.553992506     | NA           | background   | background   | background   |
| ENSG00000164082.14 | 3.252817561     | background   | background   | background   | background   |
| ENSG00000164344.15 | 2.296111305     | background   | background   | background   | 5            |
| ENSG00000164591.13 | 3.961172799     | background   | background   | background   | 4            |
| ENSG00000164972.12 | 2.575059323     | background   | background   | background   | 5            |
| ENSG00000165076.13 | 2.658150545     | background   | background   | background   | 5            |
| ENSG00000165794.9 | 2.628947455     | background   | background   | background   | background   |
| ENSG00000165841.9 | 5.997185477     | background   | background   | background   | 5            |
| ENSG00000165917.9 | 5.434202975     | background   | background   | background   | 5            |
| ENSG00000165923.15 | 5.061546525     | background   | background   | background   | 5            |
| ENSG00000166126.10 | 1.611542661     | background   | background   | background   | background   |
| ENSG00000166250.11 | 1.541223537     | background   | background   | background   | 5            |
| ENSG00000166268.10 | 5.47608623      | background   | background   | background   | 5            |
| ENSG00000166278.14 | 1.152366367     | background   | background   | background   | 5            |
| ENSG00000166349.9 | 1.306350783     | NA           | background   | background   | 5            |
| ENSG00000166405.14 | 2.037341954     | background   | background   | background   | 5            |
| ENSG00000166743.9 | 4.088774433     | background   | background   | background   | 4            |
| ENSG00000166819.11 | 1.99206879      | background   | background   | background   | 4            |
| ENSG00000166825.13 | 1.569839633     | background   | background   | background   | background   |
| Gene ID            | Log2 Ratio | Background | NA   | Background |
|-------------------|------------|------------|------|------------|
| ENSG00000166863.11| 6.30711833 | background | NA   | background |
| ENSG00000166866.12| -1.083393788| background | background | background |
| ENSG00000167555.13| 1.01708293 | background | background | background |
| ENSG00000167723.14| 1.091280882| background | background | background |
| ENSG00000167780.7 | 2.172935661| background | background | background |
| ENSG00000167992.12| 1.570988967| background | background | background |
| ENSG00000168314.17| 3.045040094| background | background | background |
| ENSG00000168477.17| 1.649662836| background | background | background |
| ENSG00000168671.9 | -1.0008174 | background | background | background |
| ENSG00000168878.16| 2.468059312| background | background | background |
| ENSG00000169402.15| 1.541011385| background | background | background |
| ENSG00000169896.16| 3.930810642| background | background | background |
| ENSG00000170122.5 | 1.129983867| background | background | background |
| ENSG00000170482.16| 3.424576342| background | background | background |
| ENSG00000170835.14| 1.557994503| background | background | background |
| ENSG00000171388.11| -1.185472604| background | background | background |
| ENSG00000171522.5 | 1.651754063| background | background | background |
| ENSG00000171649.11| 1.078705798| background | background | background |
| ENSG00000171747.8 | 1.220458236| background | background | background |
| ENSG00000171766.15| 2.542468936| background | background | background |
| ENSG00000171811.13| 2.565912522| background | background | background |
| ENSG00000171931.12| 2.355991315| background | background | background |
| ENSG00000172146.2 | 1.265512375| NA         | NA   | background |
| ENSG00000172183.14| 1.573461337| background | background | background |
| ENSG00000172232.9 | 4.230072059| background | background | background |
| ENSG00000172324.5 | 1.371201682| background | background | background |
| ENSG00000172349.17| 2.413755942| background | NA   | 5          |
| ENSG00000172361.5 | 1.408318091| background | background | background |
| ENSG00000172752.14| 1.055698539| background | background | background |
| ENSG00000172771.11| 1.431361012| background | background | background |
| ENSG00000172940.11| 4.372282068| background | background | background |
| ENSG00000172986.12| -1.004086706| background | background | background |
| Gene Symbol | Value       | Background | Background | Background | Background | 5   |
|-------------|-------------|------------|------------|------------|------------|-----|
| ENSG000000173077.14 | 1.304523999 | background | background | background | background | 4   |
| ENSG000000173110.7 | -1.668685649 | NA         | background | background | background | 5   |
| ENSG000000173198.5 | 1.04567391  | background | background | background | background | 5   |
| ENSG000000173200.12 | 1.679424854 | 5          | background | background | background | 5   |
| ENSG000000173250.2 | 5.063554889 | NA         | background | background | background | 5   |
| ENSG000000173261.8 | 1.06533291  | background | background | background | background | 5   |
| ENSG000000173269.13 | 1.541062483 | background | background | background | background | 5   |
| ENSG000000173285.4 | 1.916931839 | NA         | background | background | background | 5   |
| ENSG000000173357.20 | 1.458834781 | background | background | background | background | 5   |
| ENSG000000173359.7 | 1.870263401 | background | background | background | background | 5   |
| ENSG000000173372.10 | 3.353376665 | background | background | background | background | 5   |
| ENSG000000173380.17 | 2.284130825 | background | background | background | background | 5   |
| ENSG000000173391.5 | 1.593242793 | NA         | background | background | background | 5   |
| ENSG000000174145.7 | -1.317064512 | background | background | background | background | 4   |
| ENSG000000174226.8 | 5.437834531 | background | background | background | background | 5   |
| ENSG000000174226.8 | 5.437834531 | NA         | background | background | background | 5   |
| ENSG000000174527.9 | 2.009646269 | background | NA         | background | background | 5   |
| ENSG000000174564.12 | 1.104174172 | background | background | background | background | 5   |
| ENSG000000174844.14 | 2.413061248 | background | background | background | background | 4   |
| ENSG000000174898.15 | 2.254962632 | background | background | background | background | 5   |
| ENSG000000174945.13 | 2.646444881 | background | background | background | background | 5   |
| ENSG000000174990.4 | 1.341185914 | background | background | background | background | 5   |
| ENSG000000175003.12 | 2.765773033 | background | background | background | background | 5   |
| ENSG000000175356.12 | 4.603062624 | background | background | background | background | 3   |
| ENSG000000175564.12 | 1.214570626 | background | background | background | background | 5   |
| ENSG000000175820.3 | 2.13236525 | background | background | background | background | 5   |
| ENSG000000175894.14 | 1.351971126 | background | background | background | background | 4   |
| ENSG000000175920.16 | 1.518175412 | background | background | background | background | 5   |
| ENSG000000176160.10 | 4.296939153 | background | background | background | background | 4   |
| ENSG000000176381.5 | 3.927229098 | NA         | background | background | background | 5   |
| ENSG000000176601.12 | 4.262393335 | background | background | background | background | 5   |
| ENSG000000176798.2 | 1.974578023 | NA         | NA         | NA         | 5   |
| ENSG000000176945.16 | 1.580541953 | background | background | background | background | 5   |
| ENSG000000177096.8 | 2.685401563 | background | background | background | background | 5   |
| ENSG000000177201.2 | 1.413907791 | NA         | background | background | background | 5   |
| ENSG000000177202.2 | 3.457803154 | NA         | background | background | background | 5   |
| ENSG000000177363.4 | 2.306005124 | NA         | background | background | background | 5   |
| ENSG000000177685.16 | -1.319960545 | background | background | background | background | 5   |
| ENSG000000178057.14 | -1.059375303 | background | background | background | background | 5   |
| ENSG000000178199.13 | 1.592742809 | background | background | background | background | 5   |
| ENSG000000178467.17 | 3.718640035 | background | background | background | background | 5   |
| Gene ID          | Score 1          | Score 2          | Score 3          | Score 4          | Score 5          |
|-----------------|------------------|------------------|------------------|------------------|------------------|
| ENSG00000178623.11 | 1.483606283      | background       | background       | background       | 5                |
| ENSG00000178732.5  | 4.921580481      | NA               | background       | background       | 5                |
| ENSG00000178809.7  | 1.026362111      | NA               | background       | background       | 5                |
| ENSG00000178814.16 | 3.449359795      | background       | background       | background       | 5                |
| ENSG00000178821.12 | -1.03491294      | background       | background       | background       | 5                |
| ENSG00000179168.14 | 2.03301927       | background       | background       | background       | 5                |
| ENSG00000179242.15 | 1.07313576       | background       | background       | background       | 5                |
| ENSG00000179520.10 | 6.59531692       | background       | background       | background       | 5                |
| ENSG00000179532.12 | 1.25726938       | 5                | background       | background       | 5                |
| ENSG00000179580.9  | 2.38816824       | background       | background       | background       | 5                |
| ENSG00000179698.13 | 1.752510977      | background       | background       | background       | 5                |
| ENSG00000179698.13 | 1.752510977      | background       | background       | background       | 5                |
| ENSG00000179841.8  | 1.16425282       | NA               | background       | background       | 5                |
| ENSG00000179915.22 | 3.040947421      | background       | background       | background       | 5                |
| ENSG00000179921.14 | 1.800334941      | NA               | background       | background       | 5                |
| ENSG00000179954.15 | 1.437266422      | NA               | background       | background       | 5                |
| ENSG00000180210.14 | 5.33522826       | background       | background       | background       | 5                |
| ENSG00000180353.10 | 2.809125151      | background       | background       | background       | 5                |
| ENSG00000180535.3  | 3.458149945      | NA               | background       | background       | 5                |
| ENSG00000180549.7  | 4.391131267      | NA               | background       | background       | 5                |
| ENSG00000180573.9  | 1.398276687      | NA               | background       | background       | 5                |
| ENSG00000180626.9  | 1.06163964       | NA               | background       | background       | 5                |
| ENSG00000180934.6  | 1.19136033       | NA               | background       | background       | 5                |
| ENSG00000181392.14 | 2.30266846       | background       | background       | background       | 5                |
| ENSG00000181785.2  | 1.351322104      | NA               | NA              | NA              | 5                |
| ENSG00000182179.12 | 1.364037438      | background       | background       | background       | 5                |
| ENSG00000182308.6  | 2.355528891      | NA               | background       | background       | 5                |
| ENSG00000182324.6  | 1.017602115      | background       | background       | background       | 5                |
| ENSG00000182687.3  | 1.764467798      | NA               | background       | background       | 5                |
| ENSG00000182782.7  | 2.89838666       | NA               | background       | background       | 5                |
| ENSG00000182902.13 | 1.405211993      | background       | background       | background       | 5                |
| ENSG00000182916.7  | -1.05585705      | background       | background       | background       | 5                |
| ENSG00000183091.19 | 1.246828829      | background       | background       | background       | 5                |
| ENSG00000183111.11 | 1.145509461      | background       | background       | background       | 5                |
| ENSG00000183346.6  | -1.222248171     | background       | background       | background       | 5                |
| ENSG00000183423.11 | 1.401061999      | background       | NA              | background       | 5                |
| ENSG00000183615.5  | 2.87611568       | NA               | background       | background       | 5                |
| ENSG00000183751.14 | -1.039655805     | background       | background       | background       | 5                |
| ENSG00000183773.15 | 1.78792291       | background       | background       | background       | 5                |
| ENSG00000184113.9  | 1.634181382      | NA               | background       | background       | 5                |
| ENSG00000184163.3  | 1.013945055      | background       | background       | background       | 5                |
| Gene ID               | Value          | Symbol | Value | Symbol | Value          | Symbol |
|----------------------|----------------|--------|-------|--------|----------------|--------|
| ENSG00000184260.5    | -1.08048877    | NA     | NA    | NA     | background    | background |
| ENSG00000184343.10   | -1.004314323   | background | background | background | background | background |
| ENSG00000184574.9    | 1.80863362     | NA     | background | background | 5 |
| ENSG00000184588.17   | -1.214309745   | 4      | background | background | 4 |
| ENSG00000184619.3    | 1.438875904    | NA     | background | background | background |
| ENSG00000184659.4    | 1.834589603    | NA     | background | background | background |
| ENSG00000184678.10   | 1.83093803     | NA     | background | background | background |
| ENSG00000184811.3    | 4.103815506    | background | background | background | background | background |
| ENSG00000185070.10   | -1.730999179   | NA     | background | background | 4 |
| ENSG00000185291.11   | 2.739980237    | background | background | background | background |
| ENSG00000185527.11   | 3.948931912    | background | background | background | 5 |
| ENSG00000185792.9    | 4.467735625    | background | background | background | background |
| ENSG00000185974.6    | 5.31894903     | background | background | background | background |
| ENSG00000186329.9    | 1.078442588    | NA     | background | background | 4 |
| ENSG00000186472.19   | 1.18600905     | 5      | background | background | 4 |
| ENSG00000186723.4    | 1.147914755    | NA     | background | background | background |
| ENSG00000186897.4    | -1.065575138   | NA     | background | background | background |
| ENSG00000186952.14   | 1.129496149    | background | background | background | 4 |
| ENSG00000187105.8    | 3.204696016    | background | background | background | 5 |
| ENSG00000187479.5    | -1.035471424   | NA     | background | background | background |
| ENSG00000187559.5    | 2.759840304    | NA     | background | background | background |
| ENSG00000187583.10   | 2.303558874    | background | background | background | background |
| ENSG00000187642.9    | 2.458317021    | NA     | background | background | background |
| ENSG00000187726.8    | 1.262843755    | background | background | background | 5 |
| ENSG00000187796.14   | 1.026713376    | background | background | background | background |
| ENSG00000187848.12   | 1.170402843    | background | NA     | NA     | background |
| ENSG00000187862.11   | 3.355874427    | background | background | background | background |
| ENSG00000187902.11   | 1.428151506    | background | NA     | background | background |
| ENSG00000187905.10   | 1.875388905    | background | NA     | NA     | 5 |
| ENSG00000187944.2    | 1.379449297    | background | background | background | 5 |
| ENSG00000187997.11   | 2.652104259    | NA     | background | background | 5 |
| ENSG00000188037.10   | 3.331144666    | background | background | background | 5 |
| ENSG00000188175.9    | 2.568179962    | background | background | background | 4 |
| ENSG00000188199.10   | 1.513677457    | background | background | background | background |
| ENSG00000188305.5    | 1.825759434    | background | background | background | background |
| ENSG00000188467.10   | 4.010215031    | background | background | background | 5 |
| ENSG00000188596.10   | 1.011452146    | 5      | background | background | 4 |
| ENSG00000188626.6    | 2.046182264    | background | NA     | NA     | 5 |
| ENSG00000188738.14   | 1.235806854    | 5      | NA     | background | 4 |
| ENSG00000188766.12   | 1.976934104    | background | background | background | background |
| Accession          | Value       | Type 1 | Type 2 | Type 3 | Type 4 | Type 5 |
|--------------------|-------------|--------|--------|--------|--------|--------|
| ENSG00000188800.5  | 5.70080611  | NA     | background | background | background | background |
| ENSG00000188921.13 | 1.044107772 | background | background | 5       | 5       |
| ENSG00000189881.10 | 2.423872511 | background | background | background | 5       |
| ENSG00000189001.10 | 3.433523051 | NA     | background | background | background | background |
| ENSG00000189030.9  | 4.962281134 | NA     | background | background | background | background |
| ENSG00000189057.10 | 1.110101718 | background | background | background | background | background |
| ENSG00000189334.8  | 3.018905208 | NA     | background | background | background | background |
| ENSG00000189350.12 | 1.780904904 | background | background | 5       | 5       |
| ENSG00000189189.12 | -1.042553182 | background | background | background | background | background |
| ENSG00000189263.7  | 1.047085611 | background | background | background | background | background |
| ENSG00000189335.12 | 1.677054826 | background | background | background | background | background |
| ENSG00000189361.9  | 3.107502558 | background | background | 5       | 5       |
| ENSG00000189378.11 | 2.023119175 | background | background | 5       | 5       |
| ENSG00000189503.3  | 1.515753452 | background | background | background | background | background |
| ENSG00000189666.4  | 2.832140752 | background | background | background | background | background |
| ENSG00000189672.14 | 1.955177071 | background | background | background | background | background |
| ENSG000001896946.10 | 4.435604237 | background | background | background | background | background |
| ENSG00000197128.11 | 1.034795108 | background | background | background | background | background |
| ENSG00000197405.7  | 1.751191633 | NA     | background | background | background | background |
| ENSG00000197410.12 | 1.276828239 | background | NA     | background | background | background |
| ENSG00000197430.10 | 6.148129841 | NA     | background | background | background | background |
| ENSG00000197467.13 | -1.047258268 | background | background | background | background | background |
| ENSG00000197520.10 | 6.219211919 | background | background | background | background | background |
| ENSG00000197576.13 | 1.400735463 | NA     | background | background | background | background |
| ENSG00000197603.13 | 1.140513133 | background | background | background | 4       |
| ENSG00000197653.15 | 1.225795269 | 5      | background | background | background | 5       |
| ENSG00000197653.15 | 1.225795269 | background | background | background | 5       |
| ENSG00000197872.11 | -1.769646907 | background | background | 5       | 4       |
| ENSG00000198028.3  | 6.051074529 | background | background | background | 5       |
| ENSG00000198113.2  | 1.154506863 | NA     | background | background | background | background |
| ENSG00000198156.10 | 1.814212224 | background | background | background | 5       |
| ENSG00000198270.12 | 1.043044094 | background | background | background | 5       |
| ENSG00000198483.12 | 4.971154899 | background | background | background | background | background |
| ENSG00000198590.11 | 2.156254832 | background | background | background | 5       |
| ENSG00000198650.10 | 1.67833072 | background | background | background | 5       |
| ENSG00000198785.4  | 1.439355914 | background | background | background | 4       |
| ENSG00000198835.3  | 1.259613877 | NA     | background | background | background | background |
| ENSG00000198892.6  | 1.299532747 | background | background | background | background | background |
| ENSG00000198939.7  | 1.533077862 | background | background | 5       | 4       |
| ENSG00000203734.11 | 2.036388788 | background | background | background | 5       |
| ENSG00000203811.1  | 1.804780389 | NA     | background | background | background | background |
| Gene ID          | Value          | NA Status | Background Status | Start Position | End Position |
|-----------------|----------------|-----------|-------------------|----------------|--------------|
| ENSG00000203852.3 | 1.804780389    | NA        | background         | 5              | 5            |
| ENSG00000203972.9 | 5.633758074    | background | background         | 5              | 5            |
| ENSG00000204248.10 | 1.525366431  | background | background         | 5              | 5            |
| ENSG00000204385.10 | 2.760764522    | background | background         | 5              | 5            |
| ENSG00000204428.12 | 1.094280343    | NA        | background         | 5              | 5            |
| ENSG00000204490.7 | 1.855886738    | background | background         | 5              | 5            |
| ENSG00000204501.13 | 3.11640586     | NA        | background         | 5              | 5            |
| ENSG00000205111.8 | 5.47228843     | NA        | background         | 5              | 5            |
| ENSG00000205359.9 | -1.460666603   | background | background         | 5              | 5            |
| ENSG00000205649.7 | 1.633904665    | background | background         | 5              | 5            |
| ENSG00000205853.10 | 1.012149453    | background | background         | 4              | 5            |
| ENSG00000206150.3 | 6.123778248    | NA        | background         | 5              | 5            |
| ENSG00000208999.8 | 1.52244664     | background | background         | 5              | 5            |
| ENSG00000209339.15 | 1.46874623     | background | background         | 5              | 5            |
| ENSG00000210212.8 | 1.213767006    | background | background         | 5              | 5            |
| ENSG00000210437.6 | 4.263742924    | NA        | background         | 5              | 5            |
| ENSG00000210649.4 | 1.667477081    | background | background         | 5              | 5            |
| ENSG00000210841.7 | 2.941759491    | background | background         | 4              | 5            |
| ENSG00000211066.8 | 4.767382467    | background | background         | 3              | 5            |
| ENSG00000211552.9 | 4.997364427    | background | background         | 4              | 5            |
| ENSG00000212183.6 | 1.586723656    | NA        | background         | 5              | 5            |
| ENSG00000212357.3 | 1.773479896    | background | background         | 5              | 5            |
| ENSG00000212438.9 | 1.837077007    | background | background         | 5              | 5            |
| ENSG00000212494.0 | -1.066660353   | background | background         | 5              | 5            |
| ENSG00000212665.0 | 3.864077839    | background | background         | 4              | 5            |
| ENSG00000212897.9 | 5.164976891    | background | background         | 5              | 5            |
| ENSG00000213239.8 | 1.152678902    | background | background         | 5              | 5            |
| ENSG00000213539.8 | 6.230873369    | background | background         | 5              | 5            |
| ENSG00000213919.9 | 5.186366323    | background | background         | 5              | 5            |
| ENSG00000214119.2 | 1.263575443    | NA        | background         | 4              | 5            |
| ENSG00000214282.4 | 1.930830163    | NA        | background         | 4              | 5            |
| ENSG00000214395.4 | 1.611763231    | 5         | background         | 5              | 5            |
| ENSG00000214719.8 | 1.337270928    | background | background         | 5              | 5            |
| ENSG00000215863.3 | 1.550970801    | background | background         | 5              | 5            |
| ENSG00000216060.9 | 2.689023717    | background | background         | 5              | 5            |
| ENSG00000216021.9 | 1.475561119    | background | background         | 5              | 5            |
| Gene ID          | Value   | Background | Strain | Strain | Strain | Strain |
|-----------------|---------|------------|--------|--------|--------|--------|
| ENSG00000241322.4 | 1.166839143 | background | NA     | background | background | 5      |
| ENSG00000241563.3 | 1.375713438 | NA         | background | background | background | 4      |
| ENSG00000242715.7 | 1.259834132 | background | background | background | background | 4      |
| ENSG00000243649.8 | 1.225106439 | background | background | background | background | 5      |
| ENSG00000243649.8 | 1.225106439 | background | background | background | background | 5      |
| ENSG00000244242.1 | 2.808174573 | background | background | background | background | 5      |
| ENSG00000244482.5 | 1.674932311 | NA         | background | background | background | 5      |
| ENSG00000244731.7 | 1.837531240 | background | background | background | background | 5      |
| ENSG00000246922.8 | 1.233915333 | background | background | background | background | 5      |
| ENSG00000249437.7 | 1.259151055 | background | background | background | background | 5      |
| ENSG00000249931.4 | 1.515620847 | background | background | background | background | 5      |
| ENSG00000249961.9 | 2.076756114 | background | background | background | background | 5      |
| ENSG00000250374.3 | 2.848012516 | NA         | NA     | NA     | NA     | 5      |
| ENSG00000250479.8 | -1.020873529 | background | background | background | background | 5      |
| ENSG00000250673.2 | 1.755908284 | background | background | background | background | 5      |
| ENSG00000251537.4 | 1.727221818 | background | background | background | background | 5      |
| ENSG00000253304.1 | 2.118047911 | NA         | background | background | background | 5      |
| ENSG00000253305.2 | 1.895824791 | background | background | background | background | 5      |
| ENSG00000253731.2 | 1.293122556 | background | background | background | background | 5      |
| ENSG00000254206.5 | 1.191173672 | background | background | background | background | 5      |
| ENSG00000255398.2 | 5.544651659 | background | background | background | background | 5      |
| ENSG00000257017.4 | 2.828565399 | background | background | background | background | 5      |
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| ENSG00000259803.6 | -1.142652621 | background | background | background | background | 5      |
| ENSG00000260286.3 | 2.624868897 | NA         | background | background | background | 5      |
| ENSG00000261832.6 | 1.0460394    | NA         | NA     | NA     | NA     | 5      |
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| ENSG00000262484.1 | 1.124951476 | background | background | background | background | 5      |
| ENSG00000262576.2 | 3.951579785 | background | background | background | background | 5      |
| ENSG00000263020.6 | 1.061102957 | background | background | background | background | 5      |
| ENSG00000263201.3 | 4.20643921  | NA         | background | background | background | 5      |
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| ENSG00000266714.7 | 1.206510586 | background | NA     | NA     | NA     | 5      |
| ENSG00000266735.5 | 4.034564622 | background | background | background | background | 5      |
| ENSG00000267618.5 | 6.146203436 | background | background | background | background | 5      |
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| ENSG00000269404.6 | 1.002263145 | background | background | background | background | 5      |
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| ENSG00000277481.1 | 3.568096927 | background | background | NA     | NA     | 5      |
| ENSG00000278685.4 | 3.131312139 | background | background | background | background | 5      |
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| ENSG00000283683.1 | 2.852285016     | background  | background | 4       |
| ENSG00000283980.1 | 1.791177173     | NA          | NA         | 5       |
| ENSG00000284461.1 | -2.091806149    | background  | background | 4       |
| ENSG000000004848.7| 1.942490761     | background  | background | 5       |
| ENSG00000105369.9 | 1.92077999      | background  | background | 4       |
| ENSG00000107147.12| -1.397971063    | S           | background | 5       |
| ENSG00000110876.9 | 2.05685502      | NA          | background | 4       |
| ENSG00000115474.6| 1.879592993     | background  | background | 5       |
| ENSG00000128218.7 | 1.522848218     | NA          | background | 5       |
| ENSG00000130958.11| 1.862347074     | background  | background | 5       |
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| ENSG00000147174.11| 1.077432748     | background  | background | 5       |
| ENSG00000149781.12| 1.61566313      | background  | background | 5       |
| ENSG00000152932.7 | -1.027921966    | background  | background | 4       |
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| ENSG00000164406.7 | 1.064245944     | S           | background | 5       |
| ENSG00000168329.13| 1.671973372     | NA          | background | 5       |
| ENSG00000171804.10| 1.244378661     | background  | NA         | 5       |
| ENSG00000172348.14| 1.120132874     | background  | background | 4       |
| ENSG00000173530.5 | 1.069121213     | background  | background | 5       |
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| ENSG00000175267.14| 1.795548726     | background  | background | 5       |
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| ENSG00000182179.12| 1.479720414     | background  | background | 4       |
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| ENSG00000248905.8 | 1.3980973       | S           | NA         | 5       |
| ENSG00000250673.2 | 1.092213029     | S           | background | 5       |
| ENSG00000269058.5 | 1.193490908     | background  | background | 5       |
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| ENSG000000083454.21 | 1.632556394 | background | background | background | background | background |
| ENSG0000010867.14 | -1.257835044 | background | background | background | background | background |
| ENSG00000101204.16 | -1.61809634 | background | background | background | background | background |
| ENSG00000105227.14 | -1.505915106 | background | background | background | background | background |
| ENSG00000113924.11 | 1.765927289 | background | background | background | background | background |
| ENSG00000115850.9 | -1.273200785 | background | background | background | background | background |
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| ENSG00000168819.11 | 1.051915161 | background | background | background | background | background |
| ENSG00000168329.13 | 1.266859653 | background | background | background | background | background |
| ENSG00000168843.13 | -1.951011334 | background | background | background | background | background |
| ENSG00000173530.5 | 1.20342015 | background | background | background | background | background |
| ENSG00000174844.14 | 1.02622988 | background | background | background | background | background |
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| ENSG00000214376.5 | 2.207087253 | background | background | background | background | background |
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| ENSG00000266953.6 | -3.611901694 | background | NA | NA | background | 5 |
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| ENSG00000118507.15 | -1.238325263 | 4 | background | background | background | 4 |
| ENSG00000120438.11 | -1.249410745 | background | background | background | background | 4 |
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| ENSG00000095303.14 | 4.412012571 | background | background | background | background | 5 |
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| ENSG00000132561.13 | 1.070844717 | NA | background | background | background | 3 |
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| ENSG00000158806.13 | 1.174459986 | background | background | background |            |
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| ENSG00000164114.18 | -1.03867861 | 3          | background |            | 3          |
| ENSG00000164125.15 | -2.419622834 | 5          | background |            | 4          |
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|     | ENSG00000213578.5  | 2.96950782   | background | background | background |         |
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|     | ENSG00000269711.1  | -7.924783088 | NA         | NA         | background |         |
| Gene ID      | Value1     | Value2     | Value3     | Value4     | Value5     | Value6     | Value7     | Value8     | Value9     | Value10    | Value11    | Value12    | Value13    | Value14    | Value15    | Value16    | Value17    | Value18    | Value19    | Value20    | Value21    |
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| ENSG00000270946.5 | -5.066072444 | background | background | background | NA         | NA         | background | background | background | background | background | background | background | background | background | background | background | background | background | background |
| ENSG00000274810.4 | 1.232950365  | background | NA         | NA         | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background |
| ENSG00000277277.3 | -1.637117983 | NA         | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background |
| ENSG0000007314.12 | 3.154729021  | NA         | NA         | NA         | NA         | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background |
| ENSG0000007379.15 | 2.16940519   | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background |
| ENSG0000007379.15 | 1.635730553  | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background |
| ENSG0000007379.15 | 1.8334584    | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background |
| ENSG0000007379.15 | 1.728397248  | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background |
| ENSG0000007379.15 | 0.105586247  | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background |
| ENSG0000007379.15 | 2.228667326  | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background |
| ENSG0000007379.15 | 2.602704821  | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background |
| ENSG0000007379.15 | 1.035906054  | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background |
| ENSG0000007379.15 | 1.088646209  | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background |
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| ENSG0000007379.15 | 1.014668815  | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background |
| ENSG0000007379.15 | 2.244681299  | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background |
| ENSG0000007379.15 | 1.156289391  | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background |
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| ENSG0000007379.15 | 1.693976826  | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background |
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| ENSG0000007379.15 | 1.920758553  | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background |
| ENSG0000007379.15 | 4.096750325  | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background |
| ENSG0000007379.15 | 1.849863837  | background | NA         | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background |
| ENSG0000007379.15 | 1.231040441  | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background |
| ENSG0000007379.15 | 4.189641006  | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background |
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| ENSG0000007379.15 | -1.015923877 | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background |
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| ENSG0000007379.15 | 1.775552898  | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background |
| ENSG0000007379.15 | 2.366967677  | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background |
| ENSG0000007379.15 | 1.922531249  | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background |
| ENSG0000007379.15 | 2.170112925  | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background |
| ENSG0000007379.15 | 1.037928044  | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background |
| ENSG0000007379.15 | 1.646005338  | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background | background |
| Gene ID | log2 fold change | Background | Background | 5 | 5 |
|---------|-----------------|------------|------------|---|---|
| ENSG00000102359.6 | -1.624289668 | background | background | 4 | 4 |
| ENSG00000102554.13 | -1.141775063 | background | background | 5 | 5 |
| ENSG00000103740.9 | 1.273916331 | background | background | 5 | 5 |
| ENSG00000104967.6 | 1.298631817 | background | background | 5 | 5 |
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| ENSG00000105641.3 | 1.308493136 | background | background | 5 | 5 |
| ENSG00000105808.13 | 1.105292458 | background | background | 5 | 5 |
| ENSG00000105967.15 | 4.345554812 | background | background | 4 | 4 |
| ENSG00000106000.4 | 1.046740826 | NA | background | 5 | 5 |
| ENSG00000106006.6 | 1.581838741 | NA | background | 5 | 5 |
| ENSG00000106018.13 | 1.991947561 | background | background | 5 | 5 |
| ENSG00000106031.7 | -1.035125321 | NA | background | 5 | 5 |
| ENSG00000106526.10 | 1.172793316 | background | background | 5 | 5 |
| ENSG00000106772.17 | 1.015421908 | S | background | 4 | 4 |
| ENSG00000106927.11 | -1.031458523 | background | background | 5 | 5 |
| ENSG00000107282.7 | 1.961488501 | background | background | 4 | 4 |
| ENSG00000107611.14 | 1.223503997 | background | background | 4 | 4 |
| ENSG00000108825.17 | 1.320632593 | background | background | 5 | 5 |
| ENSG00000109063.14 | 1.570927622 | S | background | 5 | 5 |
| ENSG00000110628.13 | -1.209291123 | S | background | 5 | 5 |
| ENSG00000110900.14 | 1.103784146 | background | background | 5 | 5 |
| ENSG00000111087.9 | -1.709425775 | background | background | 5 | 5 |
| ENSG00000111181.12 | 2.944674091 | background | background | 4 | 4 |
| ENSG00000111199.10 | 1.495695178 | background | background | 5 | 5 |
| ENSG00000111452.12 | 1.473253523 | background | background | 5 | 5 |
| ENSG00000111679.16 | 1.278282284 | background | background | 5 | 5 |
| ENSG00000112983.17 | 1.023007978 | background | background | 5 | 5 |
| ENSG00000115850.9 | 2.769397368 | background | background | 5 | 5 |
| ENSG00000116748.21 | 3.175587309 | background | background | 5 | 5 |
| ENSG00000117148.7 | 1.529886578 | NA | background | 5 | 5 |
| ENSG00000117425.13 | 2.031011434 | background | background | 5 | 5 |
| ENSG00000118298.10 | 3.293826291 | background | background | 5 | 5 |
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| ENSG00000118898.15 | 2.327146129 | background | background | 5 | 5 |
| ENSG00000119681.11 | 1.107887851 | background | background | 5 | 5 |
| ENSG00000119943.12 | 1.337885513 | background | background | 5 | 5 |
| ENSG00000120156.20 | 3.668647843 | background | background | 5 | 5 |
| ENSG00000120332.15 | 1.917250131 | background | background | 4 | 4 |
| ENSG00000121053.5 | 1.398723121 | background | background | 4 | 4 |
| ID             | Value        | Background | Background | Background | Background |
|----------------|--------------|------------|------------|------------|------------|
| ENSG00000121101.15 | 1.757008584 | background | background | background | 5          |
| ENSG00000122592.7  | 1.220849481 | NA         | background | background | 5          |
| ENSG00000122641.10 | -1.148668411| NA         | background | background | 5          |
| ENSG00000123338.12 | 1.289014517 | background | background | background | 5          |
| ENSG00000123434.12 | 1.915595754 | NA         | background | background | 5          |
| ENSG00000124635.8  | 1.619045708 | NA         | NA         | NA         | background |
| ENSG00000124942.13 | 1.755434227 | background | background | background | 5          |
| ENSG00000125337.16 | 1.01482969  | background | background | background | 5          |
| ENSG00000125510.15 | -1.0236575  | NA         | background | background | 5          |
| ENSG00000126583.10 | 1.782150119 | background | background | background | 5          |
| ENSG00000128242.12 | 1.295520677 | NA         | background | background | 5          |
| ENSG00000128340.14 | 1.68319306  | background | background | background | 5          |
| ENSG00000128342.4  | 1.992050473 | background | background | background | 5          |
| ENSG00000128609.14 | -1.437367815| NA         | background | background | 5          |
| ENSG00000129048.6  | 1.440533982 | NA         | background | background | 5          |
| ENSG00000129749.9  | 1.383923783 | background | background | background | 5          |
| ENSG00000130021.13 | -1.38174248 | background | background | background | 5          |
| ENSG00000130513.6  | 2.485913361 | NA         | background | background | 5          |
| ENSG00000130783.13 | 1.27547145 | background | background | background | 5          |
| ENSG00000130813.17 | 1.225634662 | background | background | background | 5          |
| ENSG00000130856.15 | 1.469105853 | background | background | background | 5          |
| ENSG00000130940.14 | 1.295878949 | background | background | background | 5          |
| ENSG00000130958.11 | 1.748643367 | background | background | background | 5          |
| ENSG00000131018.22 | 1.330067434 | background | background | background | 4          |
| ENSG00000131061.13 | 1.160996648 | background | background | background | 5          |
| ENSG00000131127.13 | 2.1892839  | background | background | background | 5          |
| ENSG00000131477.10 | -1.048615742| background | background | background | 5          |
| ENSG00000131721.5  | 2.554259902 | background | background | background | 5          |
| ENSG00000133401.15 | 1.849973938 | background | background | background | 5          |
| ENSG00000133710.15 | 1.002981669 | background | background | background | 5          |
| ENSG00000134242.15 | 1.507551184 | background | background | background | 5          |
| ENSG00000134668.12 | 1.080132437 | background | background | background | 5          |
| ENSG00000134940.13 | 1.308030993 | NA         | background | background | 5          |
| ENSG00000135046.13 | -2.321952554| background | background | background | 5          |
| ENSG00000135245.9  | -1.027585301| NA         | background | background | 5          |
| ENSG00000135318.11 | 1.494763593 | background | background | background | 5          |
| ENSG00000135517.6  | 1.868862154 | NA         | background | background | 5          |
| ENSG00000135519.6  | 2.274866972 | background | background | background | 5          |
| ENSG00000135925.8  | 3.624215505 | background | background | background | 5          |
| ENSG00000136999.4  | 1.242208907 | background | background | background | 5          |
| ENSG00000137434.11 | -1.214960075| background | background | background | 5          |
| Chromosome | Gene | Start Position | End Position | log2 Fold Change | Significance | p-value |
|------------|------|----------------|-------------|-----------------|-------------|---------|
| 61         | ENSG00000137501.17 | 1.315900118 | background | background | background | 5       |
| 61         | ENSG00000137507.11 | 1.97890153  | background | background | background | 5       |
| 61         | ENSG00000138100.13 | 2.076070782 | background | background | background | 5       |
| 61         | ENSG00000138347.15 | 3.871326525 | background | background | background | 5       |
| 61         | ENSG00000138823.13 | 1.589671254 | background | background | background | 4       |
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| 61         | ENSG00000139597.17 | 1.147498695 | background | background | background | 5       |
| 61         | ENSG00000140057.8  | -1.10898594 | background | background | background | 5       |
| 61         | ENSG00000140470.13 | -1.10662549 | background | background | background | 4       |
| 61         | ENSG00000143512.12 | 1.437428038 | background | background | background | 5       |
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| 61         | ENSG00000144130.11 | 1.77372139  | background | background | background | 4       |
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| 61         | ENSG00000146006.7  | 2.886973134 | NA          | background     | background | 5       |
| 61         | ENSG00000146453.12 | 1.561043227 | background | background | background | 5       |
| 61         | ENSG00000147041.11 | -1.02481094 | background | background | background | 5       |
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| 61         | ENSG00000147465.11 | 2.002686375 | background | background | background | 5       |
| 61         | ENSG00000147614.3  | -1.103264576 | background | background | background | 5       |
| 61         | ENSG00000148156.7  | 3.374216568 | NA          | background     | background | 5       |
| 61         | ENSG00000148677.6  | -1.66644556 | background | background | background | 5       |
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| 61         | ENSG00000149781.12 | 1.79389539  | background | background | background | 5       |
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| 61         | ENSG00000151360.9  | 4.213925957 | background | background | background | 5       |
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| 61         | ENSG00000154997.8  | 1.167740103 | background | background | background | 5       |
| 61         | ENSG00000155026.16 | 1.599124431 | background | background | background | 5       |
| 61         | ENSG00000155367.15 | -1.258442197 | background | background | background | 5       |
| 61         | ENSG00000155465.18 | 1.140828386 | background | background | background | 4       |
| 61         | ENSG00000155749.12 | 1.602501784 | background | background | background | 5       |
| 61         | ENSG00000156097.12 | 1.361391753 | NA          | background     | background | 5       |
| ID                | Value          | Type | Value  | Type  | Value  | Type  | Value  | Type  |
|-------------------|----------------|------|--------|-------|--------|-------|--------|-------|
| ENSG00000156427.7 | 1.228234481    |      | background |   | background |   | background |   |
| ENSG00000158023.9 | 1.536475535    |      | background |   | background |   | background |   |
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| ENSG00000158373.8 | 1.010460674    |      | NA       |   | background |   | background |   |
| ENSG00000158406.4 | 1.458358211    |      | NA       |   | background |   | background |   |
| ENSG00000158683.7 | 2.137552923    |      | background |   | background |   | background |   |
| ENSG00000158865.12 | 1.988009419   |      | background |   | background |   | background |   |
| ENSG00000159167.11 | -1.491834991   |      | background |   | background |   | background |   |
| ENSG00000160716.5 | 2.621300512    |      | background |   | background |   | background |   |
| ENSG00000161649.12 | 2.369136026   |      | background |   | background |   | background |   |
| ENSG00000162004.16 | -1.058719728  |      | background |   | background |   | background |   |
| ENSG00000162148.10 | 1.37696301    |      | background |   | background |   | background |   |
| ENSG00000162438.11 | 2.116595976    |      | background |   | background |   | background |   |
| ENSG00000162490.6 | 1.18888603     |      | background |   | background |   | background |   |
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| ENSG00000162595.5 | 1.499821087    |      | background |   | background |   | background |   |
| ENSG00000162772.16 | -1.022346406  |      | background |   | background |   | background |   |
| ENSG00000162782.15 | 2.119796844    |      | background |   | background |   | background |   |
| ENSG00000162825.12 | 1.035600206    |      | background |   | background |   | background |   |
| ENSG00000162981.13 | 3.791160344    |      | NA       |   | background |   | background |   |
| ENSG00000163606.10 | 1.67667093     |      | background |   | background |   | background |   |
| ENSG00000163995.19 | 1.860163165    |      | background |   | background |   | background |   |
| ENSG00000164082.14 | 1.941545156    |      | background |   | background |   | background |   |
| ENSG00000164136.16 | 1.451963249    |      | background |   | background |   | background |   |
| ENSG00000164304.15 | 3.837769765    |      | background |   | background |   | background |   |
| ENSG00000164379.6 | 2.759015473    |      | NA       |   | background |   | background |   |
| ENSG00000164675.10 | 2.235351325    |      | background |   | background |   | background |   |
| ENSG00000165029.15 | 1.239288394    |      | background |   | background |   | background |   |
| ENSG00000165140.9 | 1.930174078    |      | background |   | background |   | background |   |
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| ENSG00000166592.11 | 2.189144784    |      | background |   | background |   | background |   |
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| ENSG00000166947.11 | 3.168013296    |      | background |   | background |   | background |   |
| ENSG00000167207.12 | 1.530927888    |      | background |   | background |   | background |   |
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| Gene     | Value  | Background | Background | Background | 5 |
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| ENSG00000167723.14 | 1.11389181 | background | background | background | 5 |
| ENSG00000167992.12 | 1.022303357 | background | background | background | 5 |
| ENSG00000168267.6 | 1.491457304 | NA | background | background | background |
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| ENSG00000170074.19 | 2.783214587 | background | NA | background | 5 |
| ENSG00000170324.20 | 3.149169997 | background | background | background | 5 |
| ENSG00000170325.14 | 1.43355812 | background | background | background | 5 |
| ENSG00000170608.2 | 1.24898427 | NA | background | background | 5 |
| ENSG00000171931.12 | 1.610073339 | background | background | background | background |
| ENSG00000172209.5 | 2.207317449 | background | background | background | 5 |
| ENSG00000172349.17 | 1.588573506 | background | NA | NA | 4 |
| ENSG00000172508.10 | 2.405879446 | background | background | background | background |
| ENSG00000172803.17 | 1.306989853 | background | background | background | 5 |
| ENSG00000173575.20 | 1.307668424 | background | background | background | 5 |
| ENSG00000173728.10 | 4.315234518 | background | background | background | background |
| ENSG00000174004.5 | 1.838150577 | background | background | background | background |
| ENSG00000174226.8 | 3.156935491 | background | background | background | background |
| ENSG00000174226.8 | 3.156935491 | NA | background | background | background |
| ENSG00000174306.21 | -1.02290185 | background | background | background | 4 |
| ENSG00000174844.14 | 1.423747838 | background | background | background | 5 |
| ENSG00000175356.12 | 2.047851544 | background | background | background | 5 |
| ENSG00000175564.12 | 1.970244204 | background | background | background | 5 |
| ENSG00000175592.8 | 1.351982717 | NA | background | background | 5 |
| ENSG00000175820.3 | 1.39218726 | background | background | background | 5 |
| ENSG00000176402.5 | 2.540957422 | NA | NA | background | background |
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| ENSG00000178055.11 | 1.758843357 | background | NA | NA | background |
| ENSG00000178690.2 | 1.650311762 | NA | background | background | 5 |
| ENSG00000179023.8 | 2.117420724 | NA | background | background | background |
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| ENSG00000179855.5 | 1.035598542 | background | background | background | background |
| ENSG00000180353.10 | 1.606885133 | background | background | background | background |
| ENSG00000180525.11 | 1.717006716 | background | background | background | background |
|------------------|-------------|------------|------------|------------|------------|
| ENSG00000180626.9 | 1.230271888 | NA         | background | background | background |
| ENSG00000181982.18 | 3.055857215 | background | background | background | 5          |
| ENSG00000182308.6 | 1.076923428 | NA         | background | background | background |
| ENSG00000182459.4 | 2.446930476 | NA         | background | background | background |
| ENSG00000182600.9 | 1.077408724 | NA         | background | background | 5          |
| ENSG00000182687.3 | 2.249234999 | NA         | background | background | background |
| ENSG00000182902.13 | 1.182198867 | background | background | background | background |
| ENSG00000183044.11 | 1.104013688 | background | background | 5          | 4          |
| ENSG00000183092.16 | -1.059540387 | background | background | 5          | background |
| ENSG00000183346.6 | -1.121746498 | background | background | 5          | background |
| ENSG00000183454.16 | 4.573292536  | background | background | background | 4          |
| ENSG00000183971.6 | 1.178194784 | NA         | NA         | NA         | 4          |
| ENSG00000184254.16 | 1.048785914  | background | background | background | 5          |
| ENSG00000184351.7 | -1.051945282 | NA         | background | background | background |
| ENSG00000184384.13 | -1.246266179 | background | background | 5          | background |
| ENSG00000184786.5 | 1.347090336  | NA         | background | background | background |
| ENSG00000184867.13 | -1.173278113 | background | background | background | background |
| ENSG00000184985.16 | 2.425009092  | background | background | 5          | background |
| ENSG00000185340.15 | 1.36221319   | background | background | background | background |
| ENSG00000185345.18 | 1.237240403  | background | background | background | 4          |
| ENSG00000185499.16 | 1.251607393  | background | background | background | background |
| ENSG00000185674.9 | 1.284831439  | background | background | background | background |
| ENSG00000186115.12 | 3.613844965  | background | background | 5          | background |
| ENSG00000186335.8 | 2.349978366  | background | background | background | background |
| ENSG00000186732.13 | -1.116154697 | background | background | background | 5          |
| ENSG00000186854.10 | 1.047936188  | background | background | background | 5          |
| ENSG00000187754.8 | 2.892959362  | background | background | background | background |
| ENSG00000187837.3 | 1.251684984  | NA         | NA         | NA         | background |
| ENSG00000188315.7 | 1.084632365  | background | background | background | background |
| ENSG00000188368.9 | 1.070574355  | background | background | background | background |
| ENSG00000188523.8 | 1.573877273  | background | background | background | 5          |
| ENSG00000188629.11 | 1.408636805  | background | background | background | background |
| ENSG00000188729.6 | -2.234078903 | NA         | NA         | 5          | background |
| ENSG00000189056.13 | -1.396890148 | background | background | 5          | background |
| ENSG00000189350.12 | 1.311430691  | background | background | 5          | background |
| ENSG00000196172.9 | -1.477599912 | background | background | background | background |
| ENSG00000196569.11 | -1.153389263 | background | background | 4          | background |
| ENSG00000196754.10 | 1.454645357  | background | background | background | background |
| ENSG00000196787.3 | 1.228938805  | NA         | background | background | background |
| ENSG00000196860.7 | 2.02239069   | background | background | background | background |
| Gene ID        | Log2 Fold Change | p-value  | Background | Background | Background | Background |
|---------------|-----------------|----------|------------|------------|------------|------------|
| ENSG00000197062.11 | -1.103312301     | 61       | background | background | background | background |
| ENSG00000197128.11 | 1.02382391       | 61       | background | background | background | background |
| ENSG00000197467.13 | -1.154531952     | 61       | background | background | background | background |
| ENSG00000197483.9  | 1.479844871      | 61       | NA         | background | background | background |
| ENSG00000197620.10 | -1.049000964     | 61       | NA         | background | background | background |
| ENSG00000197653.15 | 1.300881847      | 61       | background | background | background | background |
| ENSG00000197653.15 | 1.300881847      | 61       | background | background | background | background |
| ENSG00000197748.12 | 1.49051006       | 61       | background | background | background | background |
| ENSG00000197921.5  | 5.653809968      | 61       | background | background | background | background |
| ENSG00000198026.7  | 1.228479032      | 61       | background | background | background | background |
| ENSG00000198113.2  | 1.067812519      | 61       | NA         | background | background | background |
| ENSG00000198590.11 | 1.292982058      | 61       | background | background | background | background |
| ENSG00000198753.11 | 1.76371027       | 61       | background | background | background | background |
| ENSG00000198939.7  | 1.123340405      | 61       | background | background | background | background |
| ENSG00000203734.11 | 2.473319557      | 61       | background | background | background | background |
| ENSG00000204086.4  | 1.727048157      | 61       | NA         | background | background | background |
| ENSG00000204103.3  | 1.024566924      | 61       | NA         | background | background | background |
| ENSG00000204176.13 | 1.264918612      | 61       | background | background | background | background |
| ENSG00000204531.17 | 1.10538467       | 61       | background | background | background | background |
| ENSG00000204677.10 | 2.05412582       | 61       | background | background | background | background |
| ENSG00000204947.8  | 1.433416198      | 61       | background | background | background | background |
| ENSG00000204956.5  | 1.379132357      | 61       | background | NA         | background | background |
| ENSG00000205336.11 | 2.011473155      | 61       | background | background | background | background |
| ENSG00000205863.10 | 2.023321878      | 61       | NA         | background | background | background |
| ENSG00000206172.8  | 1.180891327      | 61       | background | background | background | background |
| ENSG00000213648.10 | 1.505106772      | 61       | background | background | background | background |
| ENSG00000213689.11 | 2.286518635      | 61       | NA         | NA         | background | background |
| ENSG00000213967.10 | 1.071100393      | 61       | background | background | NA         | background |
| ENSG00000213999.15 | 1.885897911      | 61       | background | background | background | background |
| ENSG00000214814.7  | 4.515225906      | 61       | background | background | background | background |
| ENSG00000215186.6  | 2.447929697      | 61       | background | NA         | background | background |
| ENSG00000215529.12 | 4.773965318      | 61       | background | background | NA         | background |
| ENSG00000219435.5  | 2.065088079      | 61       | background | background | background | background |
| ENSG00000221986.6  | 4.050600441      | 61       | background | background | background | background |
| ENSG00000223573.6  | 1.288061104      | 61       | background | background | background | background |
| ENSG00000226174.6  | 1.420874542      | 61       | NA         | background | background | background |
| ENSG00000226763.4  | 2.286045366      | 61       | NA         | background | background | background |
| ENSG00000231192.2  | 1.376626833      | 61       | NA         | NA         | background | background |
| ENSG00000232237.3  | 3.53969496      | 61       | background | background | background | background |
| ENSG00000233822.4  | 1.180667384      | 61       | NA         | background | background | background |
| ENSG00000237452.2  | 1.525435367      | 61       | background | background | background | background |
| 61  | ENSG00000241322.4 | 1.046367948 | background | NA | background | background |
| 61  | ENSG00000242220.6 | 1.29811133  | background | background | background | background |
| 61  | ENSG00000243207.6 | 1.314704704 | background | NA | NA | background |
| 61  | ENSG00000243444.7 | 1.314820482 | background | background | background | background |
| 61  | ENSG00000251537.4 | 1.147765984 | background | background | background | background |
| 61  | ENSG00000253251.2 | 1.044618261 | NA | background | background | background |
| 61  | ENSG00000253910.2 | 2.321859461 | background | NA | background | background |
| 61  | ENSG00000255150.2 | 2.605602419 | NA | background | background | background |
| 61  | ENSG00000258986.6 | -1.471596852 | background | background | background | background |
| 61  | ENSG00000259332.3 | -1.188428247 | background | background | background | background |
| 61  | ENSG00000260325.1 | 2.150448829 | NA | background | background | background |
| 62  | ENSG00000004838.13 | 1.109497511 | background | background | background | background |
| 62  | ENSG00000004848.7 | 5.04038793  | background | background | background | background |
| 62  | ENSG00000007237.18 | -1.262849938 | background | background | background | background |
| 62  | ENSG00000042781.12 | 1.709350222 | background | background | background | background |
| 62  | ENSG00000057468.6 | 1.828778842 | NA | NA | background | background |
| 62  | ENSG00000057468.6 | -1.378214166 | background | background | background | background |
| 62  | ENSG00000064300.8 | -1.355846571 | background | background | background | background |
| 62  | ENSG00000068976.13 | 1.86371582 | background | background | background | background |
| 62  | ENSG00000074660.15 | 1.44288441 | background | background | background | background |
| 62  | ENSG00000081148.11 | 1.941900055 | background | background | background | background |
| 62  | ENSG00000084110.10 | 1.465210836 | background | background | background | background |
| 62  | ENSG00000084636.17 | -1.59460598 | background | background | background | background |
| 62  | ENSG00000085465.12 | 1.202115739 | background | background | background | background |
| 62  | ENSG00000085514.15 | 1.113678326 | background | background | background | background |
| 62  | ENSG00000101605.12 | 1.543452743 | background | background | background | background |
| 62  | ENSG00000105467.8 | -1.300823757 | background | background | background | background |
| Gene ID     | Value         | Annotation 1 | Annotation 2 | Annotation 3 | Annotation 4 | Annotation 5 |
|------------|---------------|--------------|--------------|--------------|--------------|--------------|
| ENSG00000105996.6 | 1.205259168   | NA           | background   | background   | 5            |
| ENSG00000109063.14 | 1.494220182   | S            | background   | background   | 5            |
| ENSG00000109743.10 | 1.230344826   | background   | background   | background   | 5            |
| ENSG00000111834.12 | 1.27452874    | background   | background   | background   |              |
| ENSG00000117425.13 | 1.056065426   | S            | background   | background   | 5            |
| ENSG00000118298.10 | 2.321637956   | background   | background   | background   |              |
| ENSG00000118729.11 | 2.83850519    | background   | background   | background   | 5            |
| ENSG00000119681.11 | 1.055731672   | background   | background   | background   | 5            |
| ENSG00000119737.5  | 1.051922512   | NA           | background   | 5            | 5            |
| ENSG00000120729.9  | 1.3708667     | background   | background   | background   |              |
| ENSG00000123338.12 | 1.20207771    | background   | background   | background   |              |
| ENSG00000124253.10 | -1.684042914  | background   | background   | background   |              |
| ENSG00000124721.17 | 1.855257075   | background   | background   | background   | 3            |
| ENSG00000125398.5  | -1.01170122   | background   | background   | background   |              |
| ENSG00000125510.15 | -1.02516086   | background   | background   | background   |              |
| ENSG00000125650.4  | 1.026909299   | NA           | NA           | NA           | background   |
| ENSG00000125959.9  | 1.42026885    | background   | background   | background   | 5            |
| ENSG00000127493.3  | 1.275553047   | background   | background   | background   |              |
| ENSG00000130822.15 | -1.118532446  | background   | background   | background   | 5            |
| ENSG00000130958.11 | 2.575913792   | background   | background   | background   | 5            |
| ENSG00000134207.15 | -1.36478205   | S            | background   | S            | 5            |
| ENSG00000134242.15 | 1.698374505   | background   | background   | background   | 5            |
| ENSG00000134962.6  | 1.617594697   | background   | background   | background   |              |
| ENSG00000135046.13 | -1.356701125  | background   | background   | background   |              |
| ENSG00000136235.15 | 1.711894737   | background   | background   | background   |              |
| ENSG00000136542.8  | 1.209684064   | background   | background   | S            | 5            |
| ENSG00000136881.11 | 1.576304273   | background   | background   | background   | 4            |
| ENSG00000138823.13 | 1.486364877   | background   | background   | background   | 5            |
| ENSG00000139597.17 | 1.343084125   | background   | background   | background   | 5            |
| ENSG00000140866.17 | -1.404588231  | background   | background   | background   | 5            |
| ENSG00000141086.17 | -1.224802771  | background   | background   | background   | 5            |
| ENSG00000142552.7  | -1.121712549  | background   | background   | background   |              |
| ENSG00000143127.12 | 1.426017957   | background   | background   | background   |              |
| ENSG00000143369.14 | 1.336840635   | background   | background   | background   |              |
| ENSG00000143632.14 | 1.573245594   | background   | background   | background   |              |
| ENSG00000144339.11 | 1.262554918   | background   | background   | background   | 5            |
| ENSG00000146453.12 | 2.098967302   | background   | background   | background   |              |
| ENSG00000147174.11 | 1.203813839   | background   | background   | background   | 5            |
| ENSG00000148655.14 | 1.302998702   | background   | background   | background   | 4            |
| ENSG00000148677.6  | -1.147922089  | NA           | background   | background   | 5            |
| ENSG00000149256.15 | -1.327802253  | background   | background   | background   | 4            |
| Gene ID       | Value       | Feature 1 | Feature 2 | Feature 3 | Feature 4 |
|--------------|-------------|-----------|-----------|-----------|-----------|
| ENSG00000149781.12 | 2.241930365 | background | background | background | background |
| ENSG00000150637.8  | 2.457785852 | background | background | background | 4         |
| ENSG00000151687.14 | 1.260744077 | background | background | background | 5         |
| ENSG00000151967.18 | 1.51726687  | background | background | background | 5         |
| ENSG00000152137.6  | -1.170650677| background | background | background | 5         |
| ENSG00000155026.16 | 1.344689564 | background | background | background | 4         |
| ENSG00000155749.12 | 1.140954402 | background | background | background | 4         |
| ENSG00000156427.7  | -1.03892691 | background | background | background | 4         |
| ENSG00000158023.9  | 1.39862086  | background | background | background | 4         |
| ENSG00000158683.7  | 3.090731574 | background | background | background | 5         |
| ENSG00000158865.12 | 1.234596538 | background | background | background | 5         |
| ENSG00000159167.11 | 1.346189564 | background | background | background | 5         |
| Gene          | Log2 Fold Change | Score | Background | Background |
|--------------|-----------------|-------|------------|------------|
| ENSG00000176907.4 | -1.273408841    | NA    | background | background |
| ENSG00000177363.4 | 2.061006856     | NA    | background | background |
| ENSG00000178125.14 | 1.382170398     | background | background | background |
| ENSG00000180353.10 | 2.126939798     | background | background | background |
| ENSG00000182179.12 | 1.216951501     | background | background | background |
| ENSG00000182308.6 | 1.325332137     | background | background | background |
| ENSG00000182916.7 | -1.532790962    | background | background | background |
| ENSG00000183117.18 | 3.298218244     | background | background | background |
| ENSG00000183454.16 | 5.467423336     | background | background | background |
| ENSG00000183773.15 | 1.383720323     | background | background | background |
| ENSG00000184343.10 | -1.149031674    | background | background | background |
| ENSG00000185499.16 | -1.16553586     | background | background | background |
| ENSG00000185958.9 | 1.452254938     | 5      | NA         | background |
| ENSG00000188629.11 | 1.507983102     | background | background | background |
| ENSG00000189350.12 | 1.080784999     | background | background | background |
| ENSG00000197576.13 | 1.062612899     | NA     | background | background |
| ENSG00000197748.12 | 1.190810421     | background | background | background |
| ENSG00000197921.5 | 3.173050603     | background | background | background |
| ENSG00000205238.9 | -1.291564666    | background | NA         | background |
| ENSG00000205670.10 | 1.276629365     | background | background | background |
| ENSG00000213648.10 | 1.151720688     | background | background | background |
| ENSG00000213999.15 | 1.380336604     | background | background | background |
| ENSG00000215529.12 | 5.587891809     | background | NA         | background |
| ENSG00000220201.7 | 1.614696511     | background | background | background |
| ENSG00000232237.3 | 2.288715284     | NA     | background | background |
| ENSG00000233954.6 | 1.106275049     | NA     | background | background |
| ENSG00000241322.4 | 1.301708895     | background | NA         | background |
| ENSG00000243414.5 | 2.443621393     | NA     | background | background |
| ENSG00000250673.2 | 1.170305029     | 5      | background | background |
| ENSG00000251537.4 | 1.644768602     | background | background | background |
| ENSG00000261210.7 | 1.289715314     | background | NA         | background |
| ENSG00000265590.9 | -1.45537561     | background | NA         | background |
| ENSG00000273079.5 | 5.968205904     | background | background | background |
| ENSG00000284461.1 | 2.372140265     | background | background | background |
| ENSG0000002745.12 | 1.9500356       | background | background | background |
| ENSG00000004139.13 | -1.106599273    | background | background | background |
| ENSG00000004487.15 | -1.010424025    | 4      | background | background |
| ENSG00000004975.11 | -1.031879016    | background | background | background |
| ENSG00000005102.12 | -1.016637749    | background | background | background |
| ENSG00000006756.15 | 1.35135106      | 5      | background | background |
| ENSG  | Value   | Background | Background | Background | Background |
|-------|---------|------------|------------|------------|------------|
| 63    | -1.247735771 | background | background | background | background |
| 63    | 1.38051016   | background | background | background | background |
| 63    | -1.0963693  | background | background | background | background |
| 63    | 2.715440155 | background | background | background | background |
| 63    | 1.580469689 | background | background | background | background |
| 63    | 1.254757974 | background | background | background | background |
| 63    | 1.377651316 | background | background | background | background |
| 63    | -1.02109142 | background | background | background | background |
| 63    | 2.96047028  | background | background | background | background |
| 63    | 2.068926022 | background | background | background | background |
| 63    | -1.20063985 | background | background | background | background |
| 63    | 1.693381513 | NA         | background | background | background |
| 63    | -1.121409021| background | background | background | background |
| 63    | -4.45785775 | background | background | background | background |
| 63    | 1.035900949 | NA         | background | background | background |
| 63    | -1.076588152| background | background | background | background |
| 63    | 2.291429321 | background | background | background | background |
| 63    | 1.272070851 | background | background | background | background |
| 63    | 2.01193836  | background | background | background | background |
| 63    | -1.17692135 | background | background | background | background |
| 63    | 1.791189218 | background | background | background | background |
| 63    | 1.230259586 | background | background | background | background |
| 63    | 4.990679361 | background | background | background | background |
| 63    | -1.210969892| background | background | background | background |
| 63    | -1.088958487| background | background | background | background |
| 63    | -1.340946015| background | background | background | background |
| 63    | 2.242961951 | background | background | background | background |
| 63    | 4.310920817 | background | background | background | background |
| 63    | 1.389795658 | background | background | background | background |
| 63    | -1.019106874| NA         | background | background | background |
| 63    | 1.081089169 | background | background | background | background |
| 63    | -1.326152966| background | background | background | background |
| 63    | -1.051479845| background | background | background | background |
| 63    | 1.222847766 | background | background | background | background |
| 63    | 1.311218148 | NA         | background | background | background |
| 63    | 1.209030284 | background | background | background | background |
| 63    | 1.799056288 | background | background | background | background |
| 63    | 1.560204511 | background | background | background | background |
| 63    | 1.277358463 | background | background | background | background |
| 63    | 1.123362312 | NA         | background | background | background |
| 63    | 2.163851435 | background | background | background | background |
| Gene ID          | Value    | Symbol | Actual Value | Background Value | Count |
|-----------------|----------|--------|--------------|------------------|-------|
| ENSG00000084110.10 | 1.448226962 | background | background | background | 5     |
| ENSG00000084636.17 | -2.577564737 | background | background | background | 5     |
| ENSG00000086570.12 | 1.622670071 | background | background | 5         |       |
| ENSG00000086696.10 | 1.28761887  | NA      | background | background | 4     |
| ENSG00000088386.16 | 2.181201407 | background | background | 5         |       |
| ENSG00000091106.18 | 1.127525114 | background | background | 5         |       |
| ENSG00000091879.13 | 1.574370411 | background | background | 5         |       |
| ENSG00000095752.6  | -1.325270933 | background | background | background |        |
| Gene ID               | Value      | Background | Background | Background | Background |
|----------------------|------------|------------|------------|------------|------------|
| ENSG00000106804.7    | 1.205946537| background | background | background | 4          |
| ENSG00000106927.11   | -1.077734444| 4          | background | background | 4          |
| ENSG00000107147.12   | -1.40778935 | background | background | background | 5          |
| ENSG00000107281.9    | -1.099054488| background | background | background | 5          |
| ENSG00000108242.12   | 2.250059874 | background | background | background | 5          |
| ENSG00000109063.14   | 1.347860749 | background | background | background | 5          |
| ENSG00000109743.10   | 1.881935311 | background | background | background | 5          |
| ENSG00000110076.18   | -1.051831894| background | background | background | 4          |
| ENSG00000110077.14   | 1.268902253 | background | background | background | 5          |
| ENSG00000110237.3    | -1.030450613| background | background | background | 5          |
| ENSG00000111181.12   | 2.982846469 | background | background | background | 4          |
| ENSG00000111321.10   | 1.081016522 | background | background | background | 5          |
| ENSG00000111834.12   | 1.354747099 | background | background | background | 5          |
| ENSG000001112902.11  | 2.37047024  | background | background | background | 5          |
| ENSG000001123248.5   | 2.257370949 | NA         | background | background | 5          |
| ENSG00000112361.12   | 1.445574774 | NA         | background | 5          | 4          |
| ENSG000001113361.12  | 1.445574774 | S          | background | 5          | 4          |
| ENSG000001113905.4   | 1.995967932 | background | background | background | 5          |
| ENSG000001114786.16  | -1.561871779| S          | NA         |NA          | 5          |
| ENSG000001114854.7   | -1.626404091| background | background | background | 5          |
| ENSG000001115085.13  | -1.664270605| background | background | background | 5          |
| ENSG000001115339.13  | 1.229691105 | background | background | background | 5          |
| ENSG000001115850.9   | 2.388901581 | background | background | background | 4          |
| ENSG000001116649.9   | -1.038720769| background | background | background | 5          |
| ENSG000001116690.12  | 1.219744676 | background | background | background | 5          |
| ENSG000001117971.11  | 1.519705657 | background | background | background | 4          |
| ENSG000001118322.12  | 1.51542106  | background | background | 5          | 5          |
| ENSG000001118898.15  | 1.86663483  | background | background | 5          | 5          |
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| ENSG000001119737.5   | 1.375163541 | NA         | background | background | 5          |
| ENSG000001120251.18  | 4.176254615 | S          | background | background | 4          |
| ENSG000001120327.6   | 2.280861597 | NA         | background | background | 4          |
| ENSG000001121011.15  | 1.044954052 | background | background | 5          | 5          |
| ENSG000001121577.13  | 1.694923041 | background | background | 3          | 3          |
| ENSG000001121764.11  | 3.602651471 | background | background | background | 4          |
| ENSG000001122367.19  | 1.805454436 | background | NA        | 5          | 4          |
| ENSG00000122592.7 | 1.248426138 | NA | background | background | background |
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| ENSG00000123338.12 | 1.516649735 | 5 | background | background | background |
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| ENSG00000124256.14 | 2.512024767 | NA | background | background | background |
| ENSG00000124635.8 | 1.491179773 | NA | NA | NA | background |
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| ENSG00000130234.10 | -1.36264248 | background | background | background | background |
| ENSG00000130368.5 | 1.017265358 | NA | background | background | background |
| ENSG00000130377.13 | 1.92416283 | background | background | background | background |
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| ENSG00000130958.11 | 2.052487646 | background | background | background | background |
| ENSG00000131127.13 | 1.615662734 | background | background | background | background |
| ENSG00000131914.10 | 1.399703971 | background | background | background | background |
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| ENSG00000134830.5 | 1.019835989 | NA | background | background | background |
| ENSG00000134962.6 | 1.091157362 | background | background | background | background |
| ENSG00000135127.11 | 1.152845334 | background | NA | background | background |
| ENSG00000135245.9 | -1.031430468 | NA | background | background | background |
| Gene ID | Accession | Value | Sign | Background | Shape | Size |
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| ENSG00000137960.5 | 1.15549388 | background | background | background | 4 |
| ENSG00000138061.11 | 1.332548802 | background | background | background | 5 |
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| ENSG00000138798.11 | 1.750718259 | background | background | background | 4 |
| ENSG00000138813.9 | 1.11554938 | background | background | background | 4 |
| ENSG00000139318.7 | -1.279706974 | NA | background | background | 5 |
| ENSG00000139597.17 | 1.30576405 | background | background | background | 5 |
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| ENSG00000140009.18 | 1.018329281 | background | background | background | 4 |
| ENSG00000140403.12 | 2.278261425 | background | background | background | 4 |
| ENSG00000140538.16 | 1.179243386 | background | background | background | 5 |
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| ENSG00000141971.12 | -1.0622155 | background | background | background | 5 |
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| ENSG00000142552.7 | -1.301354228 | background | background | background | 5 |
| ENSG00000143127.12 | 1.82563092 | background | background | background | 4 |
| ENSG00000143248.12 | 1.067349997 | background | background | background | 5 |
| ENSG00000143469.18 | 1.048368989 | background | background | background | 5 |
| ENSG00000143632.14 | 1.38496926 | background | background | background | 4 |
| ENSG00000143847.15 | -1.213324439 | background | background | background | 4 |
| ENSG00000144057.15 | 1.59483666 | background | background | background | 5 |
| ENSG00000144285.18 | 1.943613498 | background | background | background | 5 |
| ENSG00000144406.18 | -1.034670434 | background | background | background | 3 |
| ENSG00000144810.15 | 1.361124995 | background | background | background | 5 |
| Ensembl | Value | Status | Status | Status | Count |
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| ENSG00000144847.12 | 1.178960856 | background | background | background | 5 |
| ENSG00000145451.12 | 2.01649091 | background | background | background | 4 |
| ENSG00000145888.10 | 2.271427006 | background | background | background | 5 |
| ENSG00000145975.14 | -2.517196287 | background | background | background | 4 |
| ENSG00000146070.16 | -1.034772334 | background | background | background | 5 |
| ENSG00000146453.12 | 1.613636405 | background | background | background | 5 |
| ENSG00000147174.11 | 1.853820843 | background | background | background | 5 |
| ENSG00000147488.11 | 2.541476601 | background | background | background | 4 |
| ENSG00000147614.3 | -1.247228808 | background | background | background | 4 |
| ENSG00000147799.11 | -1.110894533 | background | background | background | 3 |
| ENSG00000148600.14 | -1.462447546 | background | background | background | 4 |
| ENSG00000148604.13 | 1.619805773 | background | background | background | background |
| ENSG00000148655.14 | 1.695090144 | background | background | background | 4 |
| ENSG00000148677.6 | 2.105897543 | NA | background | background | background |
| ENSG00000148848.14 | 2.419531157 | background | background | background | 4 |
| ENSG00000148926.9 | -1.023977438 | background | background | 5 |
| ENSG00000149300.9 | 1.234281726 | background | background | background | 5 |
| ENSG00000149418.10 | 1.861120689 | background | background | background | background |
| ENSG00000149781.12 | 2.044377672 | background | background | background | background |
| ENSG00000149922.10 | -1.014576194 | background | background | background | 4 |
| ENSG00000149970.14 | 2.057207316 | background | background | background | 4 |
| ENSG00000150637.8 | 2.638041609 | background | background | 5 |
| ENSG00000151023.16 | -1.850955505 | background | background | 4 |
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| ENSG00000151715.7 | 1.776631969 | background | background | background | background |
| ENSG00000151789.10 | 2.138506421 | background | background | background | 3 |
| ENSG00000151967.18 | 2.052383823 | background | background | background | 5 |
| ENSG00000152049.6 | 1.264260922 | NA | background | background | 5 |
| ENSG00000152578.12 | 1.251922625 | 5 | background | background | 4 |
| ENSG00000152784.15 | -1.391399175 | 5 | 5 | background | 5 |
| ENSG00000152977.9 | 1.146165904 | background | background | background | 4 |
| ENSG00000153162.8 | -1.068296328 | background | background | background | 4 |
| ENSG00000153789.12 | 1.080734376 | background | background | background | background |
| ENSG00000154227.13 | 2.988412055 | background | background | background | 4 |
| ENSG00000154262.12 | 1.662520993 | 5 | background | background | 4 |
| ENSG00000154263.17 | 1.384242493 | background | background | background | 5 |
| ENSG00000154928.16 | -1.05751625 | background | background | background | 4 |
| ENSG00000154997.8 | 1.142172826 | background | background | background | 5 |
| ENSG00000155026.16 | 2.037359652 | background | background | background | 5 |
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| ENSG00000155886.11 | 1.442536053 | background | background | background | 5 |
| ENSG00000163995.19     | 2.359904256 | background | background | background | 2   |
| ENSG00000164082.14     | 2.302854679 | background | background | background | 5   |
| ENSG00000164344.15     | 2.714225077 | 5          | background | background | 5   |
| ENSG00000164362.18     | -1.053350673 | background | background | background | 5   |
| ENSG00000164675.10     | 1.983012508 | background | background | background | 5   |
| ENSG00000164690.7      | 2.16391011  | background | background | background | 5   |
| ENSG00000164691.16     | 2.02738038  | background | background | background | 5   |
| ENSG00000164742.14     | -1.129673458 | background | background | background | 5   |
| ENSG00000165181.16     | 2.284091181 | background | background | background | 5   |
| ENSG00000165197.4      | 2.151701213 | 5          | background | background | 5   |
| ENSG00000165323.15     | 1.584879542 | background | background | background | 3   |
| ENSG00000165474.5      | 1.360107376 | NA         | background | background | 5   |
| ENSG00000165685.8      | 2.452747535 | background | background | background | 5   |
| ENSG00000165704.14     | -1.177862022 | background | background | background | 0   |
| ENSG00000165762.3      | 2.289668111 | NA         | background | background | 5   |
| ENSG00000165923.15     | 2.315959215 | 5          | background | background | 5   |
| ENSG00000166111.9      | 1.907670171 | background | background | background | 4   |
| ENSG00000166268.10     | 2.577434333 | background | background | background | 4   |
| ENSG00000166292.11     | -1.406372455 | NA         | background | background | 5   |
| ENSG00000166446.14     | 3.183748732 | background | background | background | 5   |
| ENSG00000166682.10     | -1.737832699 | background | background | background | 5   |
| ENSG00000166862.6      | 2.074118176 | NA         | background | background | 4   |
| ENSG00000166866.12     | 2.014079143 | background | background | background | 4   |
| ENSG00000166922.8      | 1.897859038 | background | background | background | 4   |
| ENSG00000166923.10     | 1.176230866 | NA         | background | background | 5   |
| ENSG00000167371.17     | -1.44834216  | background | background | background | 5   |
| ENSG00000167555.13     | 1.102955836 | background | background | background | 5   |
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| ENSG00000167751.12     | 1.397603678 | background | background | background | 4   |
| ENSG00000167971.15     | -1.310205471 | background | background | background | 4   |
| ENSG00000168594.15     | 1.428506077 | background | background | background | 5   |
| ENSG00000168878.16     | 2.550028814 | background | background | background | 5   |
| ENSG00000168916.15     | 1.378303891 | background | background | background | 5   |
| ENSG00000168955.3      | 2.405622856 | background | background | background | 5   |
| ENSG00000168961.16     | 1.975202083 | background | background | background | 5   |
| ENSG00000169026.12     | -1.266347044 | background | background | background | 5   |
| ENSG00000169031.18     | 2.081820102 | background | background | background | 5   |
| ENSG00000169224.12     | 1.439862922 | background | background | background | 5   |
| ENSG00000170006.11     | 1.268502359 | background | background | background | 5   |
| ENSG00000170074.19     | 2.469182308 | background | NA         | background | 5   |
| ENSG00000170122.5      | 1.170630409 | NA         | background | background | 5   |
| Gene               | Log2FoldChange | Value 1 | Value 2 | Value 3 | Value 4 | Value 5 |
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| ENSG00000170345.9  | -1.278908037  | NA      | background | background | 5       |
| ENSG00000170703.15| 1.879320755   | background | background | background | 5       |
| ENSG00000171121.16| 1.77058485    | background | background | background | 5       |
| ENSG00000171291.8 | 1.816228729   | background | background | background | 5       |
| ENSG00000171388.11| -1.204121874  | background | background | background | 5       |
| ENSG00000171790.15| -1.028021735  | background | background | background | 5       |
| ENSG00000171931.12| 1.636200487   | background | background | background | 5       |
| ENSG00000172146.2 | 1.141686286   | NA      | NA      | NA      | 5       |
| ENSG00000172159.15| 1.081258559   | background | background | background | 4       |
| ENSG00000172260.14| 2.280461757   | background | background | background | 5       |
| ENSG00000172320.3 | 1.00947206    | NA      | background | background | 5       |
| ENSG00000172350.9 | -1.175327991  | background | background | background | 5       |
| ENSG00000172461.10| 2.022267247   | background | background | background | 5       |
| ENSG00000172578.11| 1.56374718    | background | background | background | 5       |
| ENSG00000172602.9 | 1.104571949   | background | background | background | 5       |
| ENSG00000172638.12| -1.201878317  | background | background | background | 5       |
| ENSG00000173114.12| 1.192120045   | background | background | background | 4       |
| ENSG00000173334.3 | -1.091728408  | background | background | background | 5       |
| ENSG00000173404.4 | 1.84584214    | NA      | background | background | 5       |
| ENSG00000173531.15| -1.159958932  | background | background | background | 5       |
| ENSG00000173546.7 | -1.175414753  | background | background | background | 5       |
| ENSG00000173575.20| 1.115023912   | background | background | background | 4       |
| ENSG00000173597.8 | 1.133798226   | background | background | background | 5       |
| ENSG00000173626.9 | 1.031259984   | background | background | background | 5       |
| ENSG00000173728.10| 4.150168299   | background | background | background | 5       |
| ENSG00000173826.14| 1.672247795   | background | background | background | 5       |
| ENSG00000173991.5 | 1.099286503   | NA      | background | background | 5       |
| ENSG00000174306.21| -1.096113327  | background | background | background | 4       |
| ENSG00000174460.3 | -1.295052381  | background | background | background | 5       |
| ENSG00000174667.4 | 1.587293576   | NA      | background | background | 5       |
| ENSG00000174844.14| 1.100374191   | background | background | background | 5       |
| ENSG00000175003.12| 2.518202708   | background | background | background | 4       |
| ENSG00000175164.13| 1.139556262   | background | background | NA       | 5       |
| ENSG00000175356.12| 2.667453299   | background | background | background | 5       |
| ENSG00000175745.11| 1.082847084   | NA      | background | background | 5       |
| ENSG00000175820.3 | 1.298834574   | background | background | background | 4       |
| ENSG00000176563.9 | -1.191640415  | background | background | background | 5       |
| ENSG00000176723.9 | 1.111447495   | NA      | background | background | 5       |
| ENSG00000176971.3 | -1.286371323  | NA      | background | background | 5       |
| ENSG00000177363.4 | 1.582766285   | NA      | background | background | 5       |
| ENSG00000177685.16| -1.118218862  | background | background | background | 5       |
| Gene ID            | Value         | Background | Background | Background | Background |
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| ENSG00000177943.13 | -1.63486695   | background | background | background | background |
| ENSG00000178026.12 | -1.199544259  | background | background | background | background |
| ENSG00000178175.11 | 2.64210662    | background | background | background | 5          |
| ENSG00000178343.4  | -1.148677968  | NA         | background | background | 5          |
| ENSG00000178821.12 | -1.567848883  | background | background | background | background |
| ENSG00000178878.12 | 1.028123625   | NA         | background | background | 5          |
| ENSG00000179520.10 | 3.214396007   | background | background | 5          | 5          |
| ENSG00000179869.14 | 1.458734444   | background | background | 4          |
| ENSG00000180251.4  | 1.686397751   | S          | background | background | 5          |
| ENSG00000180336.17 | 1.271334736   | S          | background | background | 5          |
| ENSG00000180353.10 | 1.62293668    | background | background | background | 5          |
| ENSG00000180532.10 | 2.36682279    | background | background | background | background |
| ENSG00000180596.7  | 1.512918804   | NA         | background | background | background |
| ENSG00000180934.6  | 1.091982356   | NA         | background | background | 5          |
| ENSG00000181085.14 | -1.36488499   | background | background | background | background |
| ENSG00000181291.7  | -1.385192184  | background | background | 5          | 5          |
| ENSG00000181785.2  | 1.010987078   | NA         | NA         | NA         | background |
| ENSG00000182782.7  | 3.785072388   | NA         | background | background | background |
| ENSG00000182916.7  | -1.23700641   | background | background | background | background |
| ENSG00000182983.14 | 2.016826424   | background | background | 5          |
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| ENSG00000183114.7  | -1.341969383  | NA         | background | background | background |
| ENSG00000183150.7  | 1.225125452   | background | background | 5          |
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| ENSG00000183454.16 | 4.563030787   | background | background | 4          |
| ENSG00000183691.4  | -1.953861036  | NA         | background | background | background |
| ENSG00000183813.6  | 1.089980831   | NA         | background | background | background |
| ENSG00000183918.15 | 3.05368956    | background | background | 5          |
| ENSG00000184166.2  | 1.023983033   | NA         | NA         | NA         | 5          |
| ENSG00000185905.3  | 1.709936335   | NA         | background | background | background |
| ENSG00000185985.8  | -1.204039939  | NA         | background | background | background |
| ENSG00000186340.14 | 2.30465581    | background | background | 5          |
| ENSG00000186480.12 | -1.159464941  | background | background | background | background |
| ENSG00000186526.12 | 1.370260979   | background | background | 5          |
| ENSG00000186723.4  | 1.182406622   | NA         | background | 5          |
| ENSG00000186973.10 | 2.116950155   | background | NA         | background | 5          |
| ENSG00000187527.10 | 2.04545627    | background | background | 5          |
| ENSG00000187559.5  | 2.209110889   | NA         | background | background | background |
| ENSG00000187837.3  | 1.250401624   | NA         | NA         | NA         | background |
| Gene Accession | Log2 Fold Change | p-value | Background | CPM | Background |
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| ENSG00000188000.4 | 1.113332377 | NA | background | background | 5 |
| ENSG00000188199.10 | 1.059446813 | background | background | background | 5 |
| ENSG00000188467.10 | 2.802537347 | background | background | background | 5 |
| ENSG00000188580.14 | 2.080700432 | background | background | background | 4 |
| ENSG00000188729.6 | -1.349179992 | background | NA | NA | 5 |
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| ENSG00000188868.13 | 1.227540311 | background | background | background | background |
| ENSG00000188959.9 | 2.81517677 | background | background | background | 5 |
| ENSG00000189001.10 | 2.699744917 | background | background | background | 5 |
| ENSG00000189190.9 | 2.287436465 | background | background | background | background |
| ENSG00000189233.11 | 1.111832957 | background | background | background | 4 |
| ENSG00000189410.11 | -1.062162257 | 4 | background | background | 4 |
| ENSG00000196335.12 | 1.748346895 | background | background | background | 5 |
| ENSG00000196517.11 | -1.44757573 | background | background | background | 5 |
| ENSG00000196569.11 | 1.252988134 | background | background | background | 4 |
| ENSG00000196581.10 | 1.826504796 | background | background | background | 4 |
| ENSG00000196787.3 | 1.009350463 | NA | background | background | 5 |
| ENSG00000196812.4 | 1.159606157 | background | background | background | 5 |
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| ENSG00000197044.10 | 1.148503547 | background | background | background | 5 |
| ENSG00000197467.13 | -1.121104919 | background | background | background | 4 |
| ENSG00000197471.11 | 1.497293053 | NA | background | background | background |
| ENSG00000197620.10 | -1.63691764 | NA | background | background | 5 |
| ENSG00000197748.12 | 1.211847824 | background | background | background | 4 |
| ENSG00000197768.10 | -1.332617512 | background | background | background | 5 |
| ENSG00000198010.12 | 3.854427054 | 5 | background | background | 4 |
| ENSG00000198099.8 | 1.438611928 | background | background | background | 5 |
| ENSG00000198131.13 | 1.230258246 | background | background | background | 5 |
| ENSG00000198203.9 | -1.29703705 | background | background | background | 5 |
| ENSG00000198223.16 | 1.634401126 | background | background | background | 5 |
| ENSG00000198223.16 | 1.634401126 | background | background | background | 5 |
| ENSG00000198771.10 | 1.439473614 | NA | background | background | 5 |
| ENSG00000198835.3 | 1.268001574 | NA | background | background | 5 |
| ENSG00000200347.4 | 1.747088441 | background | background | background | 5 |
| ENSG00000203383.6 | -1.005850903 | NA | background | background | 5 |
| ENSG00000204313.9 | -1.082848393 | background | background | background | 5 |
| ENSG00000204228.3 | -1.087903248 | background | background | background | 5 |
| ENSG00000204248.10 | 1.041814964 | background | background | background | 5 |
| ENSG00000204677.10 | 2.187904931 | background | background | background | 5 |
| Accession         | Value       | Label | Value 2 | Label 2 | Value 3 | Label 3 | Value 4 | Label 4 | Value 5 | Label 5 |
|------------------|-------------|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| ENSG00000204701.2| 2.391989288 | NA    | background | background | background | 5       |
| ENSG00000204740.10| 2.940687439 | background | background | background | background | 4       |
| ENSG00000204956.5| 1.511890238 | NA    | NA      | background | background | 4       |
| ENSG00000205085.11| 1.12426612  | NA    | NA      | background | background | 5       |
| ENSG00000205359.9| -1.128825493| background | background | background | background | 5       |
| ENSG00000205544.3| -1.112597226| background | background | background | background | 5       |
| ENSG00000205649.7| 1.692537444 | background | background | background | background | 5       |
| ENSG00000212643.2| 1.628354968 | NA    | background | background | background | 5       |
| ENSG00000213213.13| -1.071228159| S     | background | background | background | 5       |
| ENSG00000213901.10| 1.93097021  | background | background | background | background | 5       |
| ENSG00000214814.7| 3.675629997 | S     | background | background | background | 4       |
| ENSG00000215018.9| 1.218463224 | background | background | background | background | 5       |
| ENSG00000215045.8| -1.127508056| background | NA      | NA      | background | 4       |
| ENSG00000215529.12| 4.689856802 | background | NA      | background | background | 5       |
| ENSG00000221947.7| 1.574135237 | background | background | background | background | 5       |
| ENSG00000221963.5| 1.084063367 | background | background | background | background | 5       |
| ENSG00000223573.6| 1.001082137 | background | background | background | background | 5       |
| ENSG00000224389.8| 1.649452242 | background | background | background | background | 5       |
| ENSG00000224940.8| -1.249763851| background | background | background | background | 5       |
| ENSG000002231887.6| 1.249250779 | background | background | background | background | 5       |
| ENSG000002232268.6| 1.490460172 | NA    | background | background | background | 5       |
| ENSG000002232434.2| -1.068461532| NA    | NA      | background | background | 5       |
| ENSG000002233822.4| 1.318751195 | NA    | NA      | background | background | 5       |
| ENSG000002234965.2| -1.006918127| background | NA      | background | background | 5       |
| ENSG000002237452.2| -1.360865528| background | background | background | background | 5       |
| ENSG000002237515.8| 1.0982482   | background | background | background | background | 5       |
| ENSG000002239704.10| 1.401974401| background | background | background | background | 5       |
| ENSG000002239998.5| 2.12277066  | NA    | background | background | background | 5       |
| ENSG000002240583.11| -1.531665597| NA    | background | background | background | 5       |
| ENSG000002240654.6| 2.387436122 | background | background | background | background | 5       |
| ENSG000002241644.2| 1.444496653 | background | background | background | background | 5       |
| ENSG000002243137.7| 2.134895081 | NA    | background | background | background | 5       |
| ENSG000002243414.5| 3.253461615 | NA    | background | background | background | 5       |
| ENSG000002243978.8| -2.181664064| background | background | background | background | 5       |
| ENSG000002244731.7| 1.626517284 | background | background | background | background | 5       |
| ENSG000002250673.2| 1.31930939  | background | background | background | background | 5       |
| ENSG000002251357.4| 6.696875374 | background | NA      | background | background | 5       |
| ENSG000002251537.4| 1.108669879 | background | background | background | background | 5       |
| ENSG000002253293.4| 1.073785652 | NA    | NA      | background | background | 4       |
| ENSG000002253598.1| 1.272879164 | NA    | background | background | background | 4       |
| ENSG000002253731.2| 1.542431214 | background | background | background | background | 4       |
| Chromosome | Gene | Gene ID | Description | Value | Quality | Flags | Phase | Score | Gene ID | Value | Quality | Flags | Phase | Score |
|------------|------|--------|-------------|-------|---------|-------|-------|-------|--------|-------|---------|-------|-------|-------|
| 63         |      | ENSG00000253910.2 | 2.548670009 | background | NA | background | 4 |
| 63         |      | ENSG00000255150.2 | 2.27293351 | NA | background | background | 5 |
| 63         |      | ENSG00000259803.6 | -1.049892207 | background | NA | background | 5 |
| 63         |      | ENSG00000260286.3 | 2.613947013 | NA | background | background | 5 |
| 63         |      | ENSG00000261210.7 | 1.593682238 | background | NA | background | 4 |
| 63         |      | ENSG00000263020.6 | 1.046265013 | background | background | background | 5 |
| 63         |      | ENSG00000265590.9 | -1.443282136 | background | NA | background | 4 |
| 63         |      | ENSG00000270024.5 | -1.13103669 | background | background | background | 4 |
| 63         |      | ENSG00000270882.2 | 1.003870572 | background | background | background | 5 |
| 63         |      | ENSG00000271503.5 | 1.431259408 | background | background | background | 5 |
| 63         |      | ENSG00000272196.2 | 1.473245073 | NA | background | background | 5 |
| 63         |      | ENSG00000274750.2 | 1.084903642 | NA | background | background | 5 |
| 63         |      | ENSG00000276302.1 | 3.401443379 | background | background | background | 5 |
| 63         |      | ENSG00000279486.5 | 1.387652649 | NA | background | background | 5 |
| 65         |      | ENSG00000002746.14 | -1.557536528 | background | 5 | background | 5 |
| 65         |      | ENSG00000005073.5 | 1.412188495 | NA | background | background | 5 |
| 65         |      | ENSG00000005102.12 | -2.117021183 | background | 5 | background | 5 |
| 65         |      | ENSG00000005108.15 | -1.470238848 | 4 | background | 4 |
| 65         |      | ENSG00000006606.8 | 3.361652373 | background | background | background | 5 |
| 65         |      | ENSG00000006611.15 | -1.454705713 | 5 | background | 5 |
| 65         |      | ENSG00000008056.13 | 1.30690172 | background | 5 | background | 4 |
| 65         |      | ENSG00000008853.16 | 1.801567196 | 5 | background | 5 |
| 65         |      | ENSG00000009724.16 | 1.972923671 | 5 | background | 5 |
| 65         |      | ENSG00000009950.15 | -1.20749206 | 5 | background | 5 |
| 65         |      | ENSG00000010379.15 | 2.980218881 | background | background | background | 4 |
| 65         |      | ENSG00000010671.15 | 1.062681892 | 5 | background | 5 |
| 65         |      | ENSG00000011028.13 | -1.525973127 | 5 | background | 3 |
| 65         |      | ENSG00000011243.17 | 1.141463018 | 4 | background | 4 |
| 65         |      | ENSG00000013619.13 | -1.588117766 | background | 4 | background | 3 |
| 65         |      | ENSG00000015520.14 | 2.38126257 | 5 | background | 5 |
| 65         |      | ENSG00000019582.14 | 2.348402406 | background | background | background | 5 |
| 65         |      | ENSG00000023909.9 | 1.01536583 | background | background | background | 4 |
| 65         |      | ENSG00000031100.16 | 1.368522373 | background | background | background | 5 |
| 65         |      | ENSG00000038427.15 | -1.123442232 | 5 | background | 4 |
| 65         |      | ENSG00000039987.6 | 1.571002727 | background | NA | background | 4 |
| 65         |      | ENSG00000040731.10 | 1.302040318 | 5 | background | 4 |
| 65         |      | ENSG00000041353.9 | -1.75759886 | 5 | background | 3 |
| 65         |      | ENSG00000041982.15 | -1.03081662 | 5 | background | 4 |
| 65         |      | ENSG00000042286.14 | 1.349896064 | background | background | background | 4 |
| Gene ID            | Value         | Background | Rank | Related Gene ID | Value         | Background | Rank |
|-------------------|---------------|------------|------|-----------------|---------------|------------|------|
| ENSG00000042832.1 | 2.189707377   | background | 5    | ENSG00000042832 | 1.093948635  | background | 5    |
| ENSG00000044524.1 | -1.34716864   | background | 5    | ENSG00000044524 | -1.24115663   | background | 5    |
| ENSG00000047662.4 | 1.487476737   | background | 5    | ENSG00000047662 | 1.047548133   | background | 5    |
| ENSG00000053456.1 | -3.491675342  | background | 5    | ENSG00000053456 | 1.483967632   | background | 5    |
| ENSG00000056487.1 | -1.4885115    | background | 5    | ENSG00000056487 | 1.199456113   | background | 5    |
| ENSG00000057468.6 | 2.710927655   | background | 5    | ENSG00000057468 | -1.324086683  | background | 5    |
| ENSG00000058335.1 | 1.155435042   | background | 5    | ENSG00000058335 | -1.475821865  | background | 5    |
| ENSG00000059728.1 | -1.149866172  | background | 5    | ENSG00000059728 | 2.067565987   | background | 5    |
| ENSG00000060140.8 | 1.199456113   | background | 5    | ENSG00000060140 | -1.0435466   | background | 5    |
| ENSG00000061656.9 | -1.475821865  | background | 5    | ENSG00000061656 | 2.12844394   | background | 5    |
| ENSG00000062370.16| 1.199456113   | background | 5    | ENSG00000062370 | -1.324086683  | background | 5    |
| ENSG00000063127.15| -1.324086683  | background | 5    | ENSG00000063127 | 1.206873183   | background | 5    |
| ENSG00000064300.8 | 2.067565987   | background | 5    | ENSG00000064300 | -1.1453786   | background | 5    |
| ENSG00000066382.16| -1.149866172  | background | 5    | ENSG00000066382 | 2.12844394   | background | 5    |
| ENSG00000067064.10| -1.0435466   | background | 5    | ENSG00000067064 | 1.093948635   | background | 5    |
| ENSG00000068781.21| 2.067565987   | background | 5    | ENSG00000068781 | 2.12844394   | background | 5    |
| ENSG00000068976.13| 2.12844394   | background | 5    | ENSG00000068976 | -1.1453786   | background | 5    |
| ENSG00000069188.16| -1.1453786   | background | 5    | ENSG00000069188 | 1.093948635   | background | 5    |
| ENSG00000070366.13| 1.206873183   | background | 5    | ENSG00000070366 | -1.0435466   | background | 5    |
| ENSG00000071575.11| -1.080743565  | background | 5    | ENSG00000071575 | 1.199456113   | background | 5    |
| ENSG00000072041.16| -1.068423761  | background | 5    | ENSG00000072041 | 1.199456113   | background | 5    |
| ENSG00000072818.11| -1.193359474  | background | 5    | ENSG00000072818 | 1.199456113   | background | 5    |
| ENSG00000073067.13| 2.292671117   | background | 5    | ENSG00000073067 | 1.206873183   | background | 5    |
| ENSG00000073670.13| -1.068423761  | background | 5    | ENSG00000073670 | 2.12844394   | background | 5    |
| ENSG00000073756.11| -1.317145396  | background | 5    | ENSG00000073756 | 1.199456113   | background | 5    |
| ENSG00000074317.10| -1.537688719  | background | 5    | ENSG00000074317 | 1.199456113   | background | 5    |
| ENSG00000074527.11| -1.33090603   | background | 5    | ENSG00000074527 | 1.199456113   | background | 5    |
| ENSG00000074706.13| 1.384720253   | background | 5    | ENSG00000074706 | 1.199456113   | background | 5    |
| ENSG00000074803.17| 4.11260167    | background | 5    | ENSG00000074803 | 1.199456113   | background | 5    |
| ENSG00000075223.13| 1.512226171   | background | 5    | ENSG00000075223 | 1.199456113   | background | 5    |
| ENSG00000076242.14| 1.963661444   | background | 5    | ENSG00000076242 | 1.199456113   | background | 5    |
| ENSG00000076258.9 | -1.01818814   | background | 5    | ENSG00000076258 | 1.199456113   | background | 5    |
| ENSG00000076356.6 | -1.465326872  | background | 5    | ENSG00000076356 | 1.199456113   | background | 5    |
| ENSG00000076604.14| 1.004532272   | background | 5    | ENSG00000076604 | 1.199456113   | background | 5    |
| ENSG00000076826.9 | 1.111803002   | background | 5    | ENSG00000076826 | 1.199456113   | background | 5    |
| Gene ID       | Log2 Fold Change | P-value       | FDR             | Background Count |
|--------------|-----------------|---------------|-----------------|------------------|
| ENSG00000077092.18 | -1.243519855    | background    | background      | 5                |
| ENSG00000078399.17 | 1.723708817     | NA            | background      | 5                |
| ENSG00000078898.6 | 4.387103902     | 5             | 5 background    | 4                |
| ENSG00000079931.14 | -1.080760278    | background    | background      | 5                |
| ENSG00000080031.9 | 1.728397805     | background    | background      | 5                |
| ENSG00000080561.13 | -1.129161125    | 3             | background      | 3                |
| ENSG00000081665.13 | 1.016376434     | background    | background      | 5                |
| ENSG00000083307.10 | 2.433423559     | 5             | background      | 5                |
| ENSG00000083454.21 | 2.440194842     | background    | background      | 5                |
| ENSG00000084110.10 | 1.577543559     | 5             | background      | 5                |
| ENSG00000084674.14 | 4.394922782     | 5             | background      | 5                |
| ENSG00000085465.12 | -1.35559652     | background    | background      | 5                |
| ENSG00000086506.2  | -1.250039373     | background    | background      | 5                |
| ENSG00000086544.2  | 1.029313238     | background    | background      | 4                |
| ENSG00000086696.10 | 1.108630507     | NA            | background      | 3                |
| ENSG00000087074.7  | 1.34776992      | 5             | background      | 5                |
| ENSG00000087076.8  | 1.617588353     | 4             | 5 background    | 4                |
| ENSG00000087116.14 | -1.182897174    | background    | background      | 5                |
| ENSG00000087589.16 | 1.255305903     | background    | background      | 4                |
| ENSG00000088881.20 | -1.538976702    | background    | background      | 4                |
| ENSG00000088992.17 | 1.03994701      | background    | background      | 4                |
| ENSG00000089127.12 | 2.968465666     | 5             | 5 background    | 4                |
| ENSG00000089847.12 | -1.444637828    | 4             | background      | 4                |
| ENSG00000090238.11 | 1.52460563      | 5             | background      | 5                |
| ENSG00000090382.6  | 3.703094385     | background    | background      | 5                |
| ENSG00000090889.11 | 1.141297912     | 5             | background      | 3                |
| ENSG00000091106.18 | 1.402999727     | background    | background      | 4                |
| ENSG00000091583.10 | 3.475521268     | 5             | background      | 4                |
| ENSG00000092607.13 | 1.520928407     | 5             | background      | 3                |
| ENSG00000095752.6  | -1.744368694    | background    | background      | 5                |
| ENSG00000096088.16 | 3.229823705     | background    | background      | 4                |
| ENSG00000099812.8  | 2.955546965     | background    | background      | 5                |
| ENSG00000099937.10 | 4.180795873     | background    | background      | 5                |
| ENSG00000099977.13 | -1.271864076    | background    | background      | 5                |
| ENSG00000099994.10 | 1.83586916      | background    | background      | 5                |
| ENSG00000100097.11 | 1.026654971     | background    | background      | 4                |
| ENSG00000100196.10 | -1.0580999     | background    | background      | 4                |
| ENSG00000100292.16 | 3.492403096     | background    | background      | 4                |
| ENSG00000100399.15 | 2.049257883     | background    | background      | 4                |
| ENSG00000100439.10 | 1.132739563     | 5             | background      | 5                |
| Gene ID       | Value          | Background 1 | Background 2 | Background 3 | Background 4 |
|--------------|----------------|--------------|--------------|--------------|--------------|
| ENSG00000100504.16 | -1.071539364   | background   | background   | background   | 4            |
| ENSG00000100647.7  | 1.265321502    | background   | background   | background   | 4            |
| ENSG00000100889.11 | -1.137928493   | background   | background   | background   | 4            |
| ENSG00000100987.14 | 3.771468419    | background   | background   | background   | 5            |
| ENSG00000101000.5  | -1.054180434   | NA           | background   | background   | 4            |
| ENSG00000101049.14 | 2.531362585    | background   | background   | background   | 5            |
| ENSG00000101076.16 | 4.05828423     | background   | background   | background   | 5            |
| ENSG00000101096.19 | 2.790475677    | 5 background | 5 background | background   | 4            |
| ENSG00000101194.17 | 3.341481727    | background   | background   | background   | 4            |
| ENSG00000101213.6  | 1.576742673    | 5 background | 5 background | 5            |
| ENSG00000101311.15 | 1.345851799    | 5 background | 5 background | 3            |
| ENSG00000101335.9  | 4.110816781    | NA           | background   | background   | 5            |
| ENSG00000101638.13 | 1.833143362    | background   | background   | background   | 4            |
| ENSG00000101746.15 | -1.296504923   | 5 background | 5 background | 3            |
| ENSG00000101842.13 | 1.760373357    | background   | background   | background   | 4            |
| ENSG00000101955.14 | -1.056076747   | background   | background   | background   | 3            |
| ENSG00000102057.9  | 1.827739729    | 5 background | 5 background | 5            |
| ENSG00000102128.8  | 1.711750592    | NA           | background   | background   | 5            |
| ENSG00000102174.8  | 2.406854018    | 4 background | 5 background | 3            |
| ENSG00000102362.15 | -1.059985679   | background   | background   | background   | 3            |
| ENSG00000102738.7  | -1.511182543   | background   | background   | background   | 4            |
| ENSG00000102878.16 | -1.377680699   | 5 NA         | background   | background   | 5            |
| ENSG00000102981.9  | 1.819802901    | background   | background   | background   | 5            |
| ENSG00000103152.11 | -1.132847762   | 5 background | 5 background | 5            |
| ENSG00000103154.9  | -1.579475804   | 5 background | 5 background | 4            |
| ENSG00000103253.17 | -1.502379835   | background   | background   | background   | 4            |
| ENSG00000103260.8  | -1.206432859   | background   | background   | background   | 4            |
| ENSG00000103888.16 | 1.731169764    | 5 background | 5 background | 4            |
| ENSG00000104177.17 | 1.01712454     | 4 background | 4 background | 4            |
| ENSG00000104221.12 | 1.030506817    | background   | background   | background   | 5            |
| ENSG00000104368.17 | -1.252413213   | 5 background | 5 background | 4            |
| ENSG00000104518.10 | 2.210233973    | background   | background   | background   | 5            |
| ENSG00000104760.16 | 3.386380846    | background   | background   | background   | 3            |
| ENSG00000104883.7  | -1.626855798   | background   | background   | background   | 5            |
| ENSG00000104953.19 | -2.428325154   | 3 background | 3 background | background   | 3            |
| ENSG00000104983.8  | -1.243308221   | background   | background   | background   | 4            |
| ENSG00000105048.16 | -1.006020391   | background   | background   | background   | 5            |
| ENSG00000105327.17 | 1.252048092    | background   | background   | 5            |
| ENSG00000105376.4  | -1.653128259   | NA           | background   | background   | 5            |
| ENSG00000105419.17 | -1.682232643   | 5 background | 5 background | 4            |
| ENSG00000105443.14 | 1.234917525    | background   | background   | background   | 4            |
| Gene ID            | Log2 Fold Change | Annotation | Background | Background | Background | Background | Background | Background | Background | Background | Background | Background | Background | Background | Background | Background | Background | Background | Background | Background | Background | Background | Background | Background |
|-------------------|-----------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Ensembl Transcript  | Log2FoldChange | Annotation  | Strain 1 | Strain 2 |
|--------------------|----------------|-------------|----------|----------|
| ENSG00000113083.13 | -1.194027696   | background  | 5        | 4        |
| ENSG00000113196.2 | -1.161851755   | NA          | background| background|
| ENSG00000113389.15| 1.74950985     | 5           | background| background|
| ENSG00000113494.16| 2.57359987     | 5           | 5        | 4        |
| ENSG00000113739.10| -1.034825059   | background  | 5        | 5        |
| ENSG00000113763.10| -1.734953807   | 5           | background| background|
| ENSG00000114019.14| 1.121808193    | background  | 5        | 4        |
| ENSG00000114268.11| -1.274283462   | 5           | background| 5        |
| ENSG00000114854.7 | -1.384673803   | background  | background| background|
| ENSG00000115041.12| -1.132673764   | background  | background| 3        |
| ENSG00000115738.9 | 1.242627006    | background  | background| 5        |
| ENSG00000115850.9 | 2.236265187    | 5           | background| background| 4 |
| ENSG00000115963.13| -1.183917738   | 5           | background| 5        | 3 |
| ENSG00000116254.17| 3.197208511    | background  | background| background| 4 |
| ENSG00000116514.16| 1.096716906    | background  | NA       | background| 5 |
| ENSG00000116663.10| 1.599841773    | background  | background| 5        | 5 |
| ENSG00000116717.11| 1.218380071    | NA          | background| background|
| ENSG00000116717.11| 1.218380071    | background  | background| background|
| ENSG00000117069.14| -1.567973542   | background  | background| background| 4 |
| ENSG00000117399.13| 1.485846546    | background  | background| background| 5 |
| ENSG00000117601.13| 3.452175062    | background  | background| background| 4 |
| ENSG00000118004.17| 1.544608695    | NA          | background| background| 4 |
| ENSG00000118137.9 | 3.680116752    | background  | background| background|
| ENSG00000118298.10| 1.083772378    | 5           | background| 5        | 5 |
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| ENSG00000119950.20| -1.158797637   | background  | background| background| 4 |
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| ENSG00000120889.12| 1.267989693    | background  | background| 5        | 4 |
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| ENSG00000121764.11| 3.834490618    | 5           | background| 5        |
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|   | ENSG00000155886.11 | 1.678145863 | 5 | background | 5 | 3 |
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| ENSG00000162342.13 | -1.301378002| background      | 4          | background |
| ENSG00000162510.5  | -1.813604991| background      | 5          | background |
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| ENSG00000162591.15 | -1.406002691| background      | 4          | background |
| ENSG00000162735.18 | -1.135026575| background      | 3          | background |
| ENSG00000162771.7  | 7.30494373  | NA              | 4          | background |
| ENSG00000163032.11 | 2.201967901 | background      | 5          | background |
| ENSG00000163157.14 | 1.739103352 | background      | 4          | background |
| ENSG00000163263.6  | 2.560615827 | background      | 5          | background |
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| ENSG00000163347.5  | 2.675290918 | background      | 4          | background |
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| ENSG00000163584.17 | -1.145538696| background      | background | background |
| ENSG00000163631.16 | 3.852077134 | background      | 5          | background |
| ENSG00000163661.3  | -1.196346213| NA              | 4          | background |
| ENSG00000163666.8  | -1.348478091| background      | 4          | background |
| ENSG00000163701.18 | 2.085407514 | background      | 5          | background |
| ENSG00000163975.11 | -1.608139642| background      | 5          | background |
| ENSG00000163993.6  | 3.129234396 | NA              | 4          | background |
| ENSG00000164082.14 | 2.014219217 | background      | 5          | background |
| ENSG00000164099.3  | -1.341964596| background      | 4          | background |
| ENSG00000164176.12 | -1.236087477| background      | 5          | background |
| ENSG00000164241.13 | -1.009210912| background      | 4          | background |
| ENSG00000164304.15 | 3.008466088 | 5              | 4          | background |
| ENSG00000164344.15 | 3.596368979 | 5              | 4          | background |
| ENSG00000164362.18 | -1.53195514 | background      | 4          | background |
| ENSG00000164379.6  | 2.914948079 | NA              | 4          | background |
| ENSG00000164619.8  | 1.609278737 | background      | 3          | background |
| ENSG00000164690.7  | 2.953842887 | background      | 5          | background |
| ENSG00000164691.16 | 2.018788621 | background      | 5          | background |
| Gene ID          | Value        | Strain   | Strain   | Strain   | Strain   |
|-----------------|--------------|----------|----------|----------|----------|
| ENSG00000164742.14 | -1.103014423 | background | background | 5       | 3        |
| ENSG00000164938.13 | 1.81264847   | 5        | background | 5       | 5        |
| ENSG00000164972.12 | 2.251162969  | background | background | background | 4 |
| ENSG00000165029.15 | 2.73312789   | 4        | background | 5       | 4        |
| ENSG00000165092.12 | 3.665827968  | background | background | background | 4 |
| ENSG00000165124.17 | -1.02474035  | 4        | background | 4        |
| ENSG00000165171.10 | -1.600830508 | background | background | background | 5 |
| ENSG00000165182.10 | 1.385117603  | 5        | background | 5        |
| ENSG00000165443.11 | 2.368179965  | 5        | background | 4        |
| ENSG00000165471.6  | 4.115313079  | NA       | background | 5       | 5        |
| ENSG00000165474.5   | 1.138722333  | NA       | background | 4       | 4        |
| ENSG00000165655.16  | 2.125735788  | NA       | background | background | 5 |
| ENSG00000165704.14  | -1.382918044 | background | background | 0       | 0        |
| ENSG00000165929.12  | -1.2444877   | 5        | background | 5       | 4        |
| ENSG00000165949.12  | 1.858231153  | background | background | 5        |
| ENSG00000165972.12  | 1.121728375  | 5        | background | 5       |
| ENSG00000166268.10  | 2.692332293  | background | background | background | 3 |
| ENSG00000166292.11  | -1.91209882  | NA       | background | 5        |
| ENSG00000166510.13  | 1.363856563  | background | 5        | background | 2 |
| ENSG0000016664.13   | -1.249118082 | background | background | 5       | 4        |
| ENSG00000166689.15  | 1.053379609  | background | background | 4        |
| ENSG00000166851.14  | 1.17674245   | 5        | background | 5        |
| ENSG00000166866.12  | 2.466376558  | 5        | background | 4        |
| ENSG00000166922.8    | 1.993450754 | background | background | 4        |
| ENSG00000166924.8    | 1.046624561  | background | background | 5        |
| ENSG00000166963.12   | 1.466986312  | 5        | background | 5        |
| ENSG00000167371.17   | -1.705485656 | 5        | background | 5        |
| ENSG00000167525.13   | -1.462310122 | background | background | 5        |
| ENSG00000167641.10   | -1.062755744 | NA       | background | 4        |
| ENSG00000167676.12   | 1.747597465  | background | NA       | 5       |
| ENSG00000167711.13   | 3.233534486  | background | background | 4        |
| ENSG00000167992.12   | 1.526077652  | background | background | 3        |
| ENSG00000168140.4    | 1.820183488  | NA       | background | 5        |
| ENSG00000168497.4    | 2.926023409  | NA       | 5        | background | 5 |
| ENSG00000168748.13   | 3.278191699  | background | background | 4        |
| Gene ID          | Value 1     | Value 2     | Value 3     | Value 4     | Value 5     |
|-----------------|-------------|-------------|-------------|-------------|-------------|
| ENSG00000168824.14 | 1.047942832 | background  | background  | background  | 4           |
| ENSG00000168878.16 | 3.138215817 | 5           | background  | 5           | 5           |
| ENSG00000168913.6  | -1.173282759 | NA          | background  | background  | background  |
| ENSG00000168916.15 | 2.068374346 | 5           | background  | background  | 5           |
| ENSG00000168961.16 | 2.988380274 | background  | background  | background  | 5           |
| ENSG00000169026.12 | -1.031633438 | 5           | background  | 4           | 4           |
| ENSG00000169031.18 | 1.556537636 | background  | background  | background  | 5           | 4           |
| ENSG00000169064.12 | -1.281608687 | 4           | background  | background  | 4           |
| ENSG00000169169.14 | -1.0125232   | 5           | background  | background  | 4           |
| ENSG00000169231.13 | -1.42649812  | background  | background  | background  | 5           |
| ENSG00000169252.5  | 1.039264048  | NA          | 5           | 5           | 5           |
| ENSG00000169403.11 | 2.43182991   | background  | background  | background  | 4           |
| ENSG00000169715.14 | 2.642911444  | NA          | background  | background  | 5           |
| ENSG00000169884.13 | -1.03519229  | background  | 5           | background  | 5           |
| ENSG00000169918.9  | 1.104112132  | background  | background  | 5           | 3           |
| ENSG00000170099.5  | 2.6135141    | 5           | background  | 5           |
| ENSG00000170122.5  | 1.768173472  | NA          | background  | 4           | 4           |
| ENSG00000170324.20 | 2.399964733  | 5           | background  | background  | 3           |
| ENSG00000170349.9  | -1.183559708 | NA          | background  | 5           | background  |
| ENSG00000170385.9  | 1.216908845  | NA          | background  | 5           | background  |
| ENSG00000170468.7  | 3.39054415   | NA          | background  | 5           | 4           |
| ENSG00000170571.11 | -1.061371629 | background  | background  | 5           | 4           |
| ENSG00000170734.11 | 1.31303049   | 5           | background  | background  | 4           |
| ENSG00000170835.14 | 1.564087955  | background  | background  | 5           |
| ENSG00000170961.6  | -1.19484763  | NA          | 5           | 5           | 5           |
| ENSG00000170988.8  | -1.097998967 | NA          | background  | 5           | 5           |
| ENSG00000171121.16 | 1.683093792  | background  | background  | 4           |
| ENSG00000171124.12 | 3.199735956  | background  | background  | background  | 5           |
| ENSG00000171345.13 | 2.532136212  | NA          | background  | background  | 5           |
| ENSG00000171345.13 | 2.532136212  | background  | background  | 5           |
| ENSG00000171388.11 | -1.75201339  | background  | background  | 5           | 5           |
| ENSG00000171476.21 | -1.080894256 | NA          | background  | 4           |
| ENSG00000171551.11 | -1.209134665 | background  | background  | 5           | 5           |
| ENSG00000171560.14 | 3.925213385  | 5           | background  | 5           | 5           |
| ENSG00000171564.11 | 3.265044118  | background  | background  | background  | 4           |
| ENSG00000171759.9  | 3.734056601  | 5           | background  | 5           | 4           |
| ENSG00000171843.15 | -1.034387922 | 5           | background  | 5           | 4           |
| ENSG00000171877.20 | 1.043253571  | 4           | background  | 5           | 3           |
| ENSG00000171951.4  | 1.964543976  | NA          | background  | background  | 5           |
| ENSG00000172000.7  | 1.291369963  | background  | background  | 5           | 5           |
| Gene ID               | Feature 1 | Feature 2 | Feature 3 | Feature 4 | Feature 5 |
|----------------------|-----------|-----------|-----------|-----------|-----------|
| ENSG00000172020.12   | -1.219696635 | background | background | background | 4         |
| ENSG00000172159.15   | 1.408475093  | background | background | 5         | 4         |
| ENSG00000172752.14   | 1.67325586  | 4         | background | 5         | 4         |
| ENSG00000172940.11   | 3.593347762  | 5         | background | background | 5         |
| ENSG00000173110.7    | 2.401180945  | NA        | background | background | background |
| ENSG00000173137.11   | -1.210811166 | 5         | background | background | 5         |
| ENSG00000173175.14   | 1.057344003  | background | background | background | 4         |
| ENSG00000173366.11   | 2.474100577  | background | NA        | background | 4         |
| ENSG00000173376.13   | -1.18856244  | background | background | 4         | 4         |
| ENSG00000173404.4    | 2.299371777  | NA        | background | 5         | 5         |
| ENSG00000173442.12   | -1.032397843 | 5         | background | background | 5         |
| ENSG00000173530.5    | 1.520159441  | background | background | background | 4         |
| ENSG00000173546.7    | -1.026064352 | 5         | background | 5         | 5         |
| ENSG00000173575.20   | 1.369168113  | 5         | background | 5         | 4         |
| ENSG00000173621.8    | -1.08860831  | NA        | background | background | background |
| ENSG00000173728.10   | 3.637443503  | background | background | background | 4         |
| ENSG00000173762.7    | 2.55800424   | background | background | background | background |
| ENSG00000173846.12   | 1.729928734  | background | background | background | background |
| ENSG00000173991.5    | 1.878081434  | NA        | background | background | 5         |
| ENSG00000174145.7    | -1.952421721 | 5         | 5         | 5         | 3         |
| ENSG00000174226.8    | 2.995136013  | background | background | 5         | 4         |
| ENSG00000174307.6    | 1.619900818  | background | 5         | background | 5         |
| ENSG00000174460.3    | -1.446087348 | background | 5         | background | 5         |
| ENSG00000174567.7    | 2.826204582  | background | background | background | 5         |
| ENSG00000174791.10   | 1.742099345  | 5         | background | 5         | 5         |
| ENSG00000174827.13   | 1.225841609  | 5         | background | background | 4         |
| ENSG00000174844.14   | 1.42253683   | 5         | 5         | background | 4         |
| ENSG00000174946.6    | 5.343236491  | background | 5         | background | 4         |
| ENSG00000175105.6    | 1.255170033  | 4         | background | background | 4         |
| ENSG00000175274.18   | -1.010172608 | background | background | background | 4         |
| ENSG00000175356.12   | 3.354908293  | background | background | background | 4         |
| ENSG00000175445.14   | -1.082691313 | background | 5         | 5         | 4         |
| ENSG00000175564.12   | 1.235254953  | background | 5         | 5         | 5         |
| ENSG00000175592.8    | 1.20696887   | NA        | background | 5         | 5         |
| ENSG00000175697.10   | 1.14440152   | background | background | 5         | 4         |
| ENSG00000175745.11   | 1.901443046  | NA        | background | background | 5         |
| ENSG00000175868.13   | -1.344893578 | background | 5         | background | 4         |
| ENSG00000175899.14   | 3.784066306  | 5         | background | background | 4         |
| ENSG00000176102.11   | -1.069548139 | 5         | background | background | 3         |
| ENSG00000176171.11   | -1.231711389 | background | background | 5         | 5         |
| ENSG00000176340.3 | -1.16578079 | NA | background | background | 4 |
| ENSG00000176381.5 | 2.598140538 | NA | background | background | 5 |
| ENSG00000176454.13 | -1.084713453 | background | background | background | 5 |
| ENSG00000176678.5 | -1.370073408 | NA | background | background | 5 |
| ENSG00000176723.9 | 1.17174273 | NA | background | background | 5 |
| ENSG00000176971.3 | -1.23552092 | NA | background | background | 5 |
| ENSG00000177076.5 | 1.706913944 | background | 5 | background | 4 |
| ENSG00000177363.4 | 1.605388147 | NA | background | background | 5 |
| ENSG00000177483.11 | 1.057188954 | background | background | background | 5 |
| ENSG00000177685.16 | -1.120743023 | background | background | background | 5 |
| ENSG00000177932.6 | -1.830596381 | background | background | background | 4 |
| ENSG00000178038.16 | -1.314215991 | background | background | background | 4 |
| ENSG00000178233.17 | 2.972534111 | NA | background | background | 5 |
| ENSG00000178343.4 | -1.546355301 | NA | background | background | 5 |
| ENSG00000178381.11 | 1.076269222 | background | background | background | 4 |
| ENSG00000178567.7 | 1.794866815 | NA | background | background | 5 |
| ENSG00000178573.6 | 1.348547365 | NA | background | background | 5 |
| ENSG00000178623.11 | 1.829837906 | background | background | background | 5 |
| ENSG00000178695.5 | -1.272212894 | NA | background | background | 5 |
| ENSG00000178726.6 | -1.55315935 | NA | background | background | 5 |
| ENSG00000178752.15 | -1.092879778 | background | NA | NA | background |
| ENSG00000178772.6 | 2.041938273 | NA | background | background | 4 |
| ENSG00000178821.12 | -1.337842396 | background | background | background | background |
| ENSG00000178878.12 | 1.543727185 | NA | background | background | 5 |
| ENSG00000178947.8 | -1.059264182 | NA | background | background | 5 |
| ENSG00000179029.14 | -1.044882426 | background | 5 | background | 5 |
| ENSG00000179111.8 | -1.8444504752 | background | NA | NA | background |
| ENSG00000179455.7 | 1.016340399 | NA | background | background | 4 |
| ENSG00000179673.4 | -1.036512409 | NA | background | background | background |
| ENSG00000179761.11 | 1.417598441 | background | background | background | 3 |
| ENSG00000180071.19 | -1.312579275 | background | background | background | 4 |
| ENSG00000180096.11 | -1.110420029 | background | background | background | 4 |
| ENSG00000180113.15 | -1.519106783 | 5 | NA | background | 4 |
| ENSG00000180155.19 | 2.387259572 | background | background | background | 5 |
| ENSG00000180210.14 | 4.073759874 | 4 | background | background | 4 |
| ENSG00000180287.16 | 2.39892037 | background | background | background | 3 |
| ENSG00000180316.12 | 2.605655527 | background | NA | NA | 4 |
| ENSG00000180336.17 | 1.923242501 | background | 4 | background | 5 |
| ENSG00000180353.10 | 1.769323155 | background | 5 | background | 4 |
| ENSG00000180448.10 | 1.116351719 | background | 5 | background | 5 |
| ENSG00000180549.7 | 6.736678315 | NA | 5 | 5 | 5 |
| Gene       | Score     | Log2FoldChange | Status | PValue | Background | FoldChange | Tissue | Chromosome |
|------------|-----------|----------------|--------|--------|------------|------------|--------|------------|
| ENSG00000180573.9 | 1.421040659 | NA | background | background | 5 | 5 |
| ENSG00000180596.7 | 1.894458034 | NA | background | background | 5 | 5 |
| ENSG00000180767.9 | 2.059625505 | background | background | 4 | 4 |
| ENSG00000181026.14 | 1.259639345 | -1.673749428 | background | background | 5 | 5 |
| ENSG00000181264.8 | -1.153941872 | background | background | 5 | 4 |
| ENSG00000181291.7 | -2.306566188 | background | background | 5 | 4 |
| ENSG00000181350.11 | -1.183133367 | NA | background | background | 4 | 4 |
| ENSG00000181625.17 | 1.80644525 | background | background | 4 | 3 |
| ENSG00000181885.18 | -2.077163933 | background | background | 5 | 3 |
| ENSG00000182103.4 | -1.30958034 | NA | background | background | 5 | 5 |
| ENSG00000182179.12 | 1.344826408 | 5 | background | background | 5 | 5 |
| ENSG00000182308.6 | 1.064108911 | NA | background | background | 5 | 4 |
| ENSG00000182379.9 | -1.354479383 | NA | background | background | 5 | 5 |
| ENSG00000182600.9 | 1.80644525 | background | background | 4 | 3 |
| ENSG00000182687.3 | 2.077163933 | background | background | 5 | 5 |
| ENSG00000182782.7 | 3.562607198 | NA | background | background | 4 | 2 |
| ENSG00000182809.10 | 1.848513605 | background | background | 5 | 5 |
| ENSG00000182916.7 | -1.16595695 | background | background | 5 | 5 |
| ENSG00000183023.18 | -1.333081646 | background | NA | NA | 3 | 2 |
| ENSG00000183049.12 | -1.168389867 | 5 | background | background | 4 | 2 |
| ENSG00000183092.16 | -1.332656789 | background | background | 4 | 2 |
| ENSG00000183114.7 | -1.72257891 | NA | background | background | 5 | 5 |
| ENSG00000183117.18 | 1.667523524 | 4 | background | background | 3 | 2 |
| ENSG00000183153.6 | 1.140933018 | NA | NA | NA | background | 3 | 2 |
| ENSG00000183287.13 | 2.007349102 | background | background | 4 | 2 |
| ENSG00000183307.3 | 1.076750383 | NA | background | background | 5 | 5 |
| ENSG00000183454.16 | 5.405220913 | 5 | background | background | 3 | 2 |
| ENSG00000183463.5 | 2.043743955 | NA | background | background | 4 | 2 |
| ENSG00000183647.10 | 1.01015023 | background | 5 | 4 | 3 |
| ENSG00000183691.4 | 4.23837994 | 5 | background | background | 4 | 3 |
| ENSG00000183715.13 | -1.059520545 | NA | background | background | 5 | 3 |
| ENSG00000183775.10 | 1.089126906 | 5 | background | background | 5 | 3 |
| ENSG00000184060.10 | 3.564579023 | background | background | 5 | 5 |
| ENSG00000184465.15 | -1.138584156 | background | background | 3 | 2 |
| ENSG00000184489.11 | -1.208241342 | background | background | 3 | 2 |
| ENSG00000184659.4 | 1.598877647 | NA | background | background | 5 | 5 |
| Gene          | GeneID          | Value       | Column1 | Column2 | Column3 | Column4 | Column5 |
|--------------|-----------------|-------------|---------|---------|---------|---------|---------|
| ENSG00000184678.10 | 1.096762225 | NA          | background | background | background | background | background |
| ENSG00000184697.6  | 3.26423801   | NA          | background | background | 5        | 5       | 5       |
| ENSG00000184838.14 | -1.073925706 | NA          | background | background | 4        | 4       | 4       |
| ENSG00000185013.16 | 2.31937065   | background | background | background | 5        | 5       | 5       |
| ENSG00000185101.12 | 3.992575656  | background | background | background | 5        | 5       | 5       |
| ENSG00000185261.14 | 1.121724699  | background | background | background | 3        | 3       | 3       |
| ENSG00000185340.15 | 1.343503987  | background | background | background | background | background | background |
| ENSG00000185519.8  | -1.353621959 | background | background | background | 4        | 4       | 4       |
| ENSG00000185559.13 | 4.541358932  | background | background | background | 5        | 5       | 5       |
| ENSG00000185615.15 | -1.132284718 | background | background | background | 5        | 5       | 5       |
| ENSG00000185885.15 | -1.670121003 | NA          | background | background | 4        | 4       | 4       |
| ENSG00000185924.6  | -1.194552339 | NA          | background | background | 5        | 5       | 5       |
| ENSG00000185955.4  | 2.701984528  | NA          | background | background | 4        | 4       | 4       |
| ENSG00000185985.8  | -1.676416767 | NA          | background | background | 5        | 5       | 5       |
| ENSG00000186115.12 | 2.093783746  | 5           | background | background | 5        | 5       | 5       |
| ENSG00000186340.14 | 2.87055136   | 5           | background | background | 4        | 4       | 4       |
| ENSG00000186340.14 | 2.87055136   | background | background | background | 4        | 4       | 4       |
| ENSG00000186352.8  | -1.190547652 | 4           | background | background | 4        | 4       | 4       |
| ENSG00000186480.12 | -1.37657393  | background | background | background | 5        | 5       | 5       |
| ENSG00000186523.14 | -1.175761028 | background | background | background | 5        | 5       | 5       |
| ENSG00000186732.13 | -1.25877148  | background | background | background | 5        | 5       | 5       |
| ENSG00000186867.10 | -1.102084905 | 5           | background | NA         | 4        | 4       | 4       |
| ENSG00000186973.10 | 2.559739944  | background | NA         | background | 4        | 4       | 4       |
| ENSG00000187134.13 | 4.434873063  | background | 5         | 5         | 5       | 5       | 5       |
| ENSG00000187186.14 | -1.115649714 | NA          | background | background | 5        | 5       | 5       |
| ENSG00000187479.5  | -1.952105519 | NA          | background | background | 5        | 5       | 5       |
| ENSG00000187559.5  | 2.467866232  | NA          | background | background | 4        | 4       | 4       |
| ENSG00000187796.14 | 1.422829385  | background | background | background | 4        | 4       | 4       |
| ENSG00000187837.3  | 1.107610409  | NA          | NA         | background | background | background | background |
| ENSG00000188060.7  | 1.491128712  | NA          | background | background | background | background | background |
| ENSG00000188095.4  | -1.089112237 | NA          | background | background | 4        | 4       | 4       |
| ENSG00000188176.11 | -1.132024991 | background | background | background | 5        | 5       | 5       |
| ENSG00000188199.10 | 1.273957662  | background | background | background | 4        | 4       | 4       |
| ENSG00000188488.13 | 3.570956682  | background | background | background | 5        | 5       | 5       |
| ENSG00000188522.14 | 1.023439294  | background | background | background | 4        | 4       | 4       |
| ENSG00000188643.10 | 1.672679548  | background | background | background | 5        | 5       | 5       |
| ENSG00000188729.6  | -2.270484692 | 5           | NA         | NA         | 4        | 4       | 4       |
| ENSG00000188747.8  | -2.077502873 | background | background | background | 4        | 4       | 4       |
| ENSG00000188761.11 | 1.492836562  | background | background | background | 4        | 4       | 4       |
| ENSG00000188868.13 | 1.675062238  | 5           | background | background | 5        | 5       | 5       |
| ENSG00000188959.9  | 3.810839252  | NA          | background | background | 5        | 5       | 5       |
| Gene ID      | Value   | Background | Count |
|-------------|---------|------------|-------|
| ENSG00000188981.10 | 1.888778774 | background | 4     |
| ENSG00000188993.3 | 1.481612793 | background | 4     |
| ENSG00000189350.12 | 1.178889803 | background | 5     |
| ENSG00000189410.11 | -1.37748114  | background | 4     |
| ENSG00000189410.11 | -1.148317429 | background | 5     |
| ENSG00000189410.11 | -1.040864096 | background | 5     |
| ENSG00000189410.11 | 3.883894285  | background | 4     |
| ENSG00000196139.13 | 4.097284159  | background | 4     |
| ENSG00000196152.10 | 1.767032953  | background | 5     |
| ENSG00000196189.12 | -1.031945196 | background | 5     |
| ENSG00000196296.13 | 1.05662409   | background | 5     |
| ENSG00000196511.14 | -1.044386352 | background | 5     |
| ENSG00000196597.11 | 1.000357487  | background | 3     |
| ENSG00000196711.8  | -1.339859483 | background | 5     |
| ENSG00000196787.3  | 1.205605471  | background | 5     |
| ENSG00000196812.4  | 1.18001901   | background | 5     |
| ENSG00000196972.8  | -1.184387901 | NA         | 5     |
| ENSG00000197044.10 | 1.874113562  | background | 4     |
| ENSG00000197063.10 | 1.179281614  | background | 5     |
| ENSG00000197102.10 | 1.048713114  | background | 4     |
| ENSG00000197119.12 | -1.184129382 | background | 5     |
| ENSG00000197128.11 | 1.009074527  | background | 5     |
| ENSG00000197136.4  | 1.03075036   | background | 5     |
| ENSG00000197249.13 | 4.006849014  | background | 5     |
| ENSG00000197467.13 | -1.561159113 | background | 3     |
| ENSG00000197483.9  | 1.234592538  | background | 5     |
| ENSG00000197620.10 | -1.923937478 | background | 5     |
| ENSG00000197748.12 | 1.710457857  | background | 3     |
| ENSG00000197768.10 | -2.08171385  | background | 5     |
| ENSG00000198003.11 | -1.047599355 | background | 4     |
| ENSG00000198108.3  | -1.002066645 | background | 4     |
| ENSG00000198113.2  | 1.214559243  | background | 5     |
| ENSG00000198156.10 | 1.076338913  | background | 5     |
| ENSG00000198520.10 | -1.798360519 | 5          | 5     |
| ENSG00000198553.8  | -1.005269164 | background | 5     |
| ENSG00000198835.3  | 2.332527957  | background | 5     |
| ENSG00000198848.12 | 2.63279069   | background | 4     |
| ENSG00000203618.5  | -1.06639732  | background | background |
| Gene ID       | Value       | Description | Level | Background | Previous Level |
|--------------|-------------|-------------|-------|------------|----------------|
| ENSGO00000204220.11 | -1.065756401 | background | 5     | background | background     |
| ENSGO00000204228.3 | -1.30525881  | background | background | background | background |
| ENSGO00000204248.10 | 1.61580408   | background | background | background | background |
| ENSGO00000204264.8 | 2.45657051   | background | 5     | background | background     |
| ENSGO00000204323.5 | -1.942860142 | background | 5     | background | background     |
| ENSGO00000204389.9 | 1.60319177   | NA          | 4     | background | background     |
| ENSGO00000204410.14| -1.226478215 | background | 5     | background | background     |
| ENSGO00000204461.9 | 1.291748846  | background | 5     | background | background     |
| ENSGO00000204467.10| 1.81316858   | background | background | background | background |
| ENSGO00000204710.2 | -1.425678937 | background | background | background | background |
| ENSGO00000204740.10| 3.112972344  | 5           | 3     | background | background     |
| ENSGO00000204956.5 | 1.345235827  | background | NA    | background | background     |
| ENSGO00000205309.13| -1.121089329 | background | background | background | background |
| ENSGO00000205336.11| 1.807295095  | 5           | 4     | background | background     |
| ENSGO00000205359.9 | -1.37941793  | background | 5     | background | background     |
| ENSGO00000205544.3 | -1.588579291 | background | background | background | background |
| ENSGO00000205643.10| -1.15052861  | background | 5     | background | background     |
| ENSGO00000206052.10| 1.099117682  | 5           | 3     | background | background     |
| ENSGO00000212643.2 | 2.124361191  | NA          | 4     | background | background     |
| ENSGO00000212710.4 | 3.04120036   | NA          | 4     | background | background     |
| ENSGO00000213145.9 | 2.835008107  | background | background | background | background |
| ENSGO00000213626.11| -1.463567087 | background | 5     | background | background     |
| ENSGO00000213648.10| 2.724862803  | background | 5     | background | background     |
| ENSGO00000213889.10| -1.250249694 | background | NA    | background | background     |
| ENSGO00000213901.10| 2.568071626  | background | background | background | background |
| ENSGO00000213999.15| 1.75659498   | background | background | background | background |
| ENSGO00000214290.8 | 4.933300818  | background | background | background | background |
| ENSGO00000214814.7 | 3.652872165  | 4           | 3     | background | background     |
| ENSGO00000214940.4 | 2.66705191   | background | 5     | background | background     |
| ENSGO00000215045.8 | -1.021558618 | 5           | NA    | NA         | NA             |
| ENSGO00000215529.12| 3.847919602  | 5           | 5     | background | NA             |
| ENSGO00000219438.8 | 3.361277996  | background | background | background | background |
| ENSGO00000220201.7 | 1.713188941  | background | background | background | background |
| ENSGO00000221947.7 | 1.272554987  | 4           | 4     | 5          | 4              |
| ENSGO00000221995.5 | 1.007683911  | NA          | 5     | background | 5              |
| ENSGO00000223573.6 | 2.157530867  | background | background | background | background |
| ENSGO00000224389.8 | 2.762663921  | background | background | background | background |
| ENSGO00000224420.3 | 1.259017615  | NA          | background | background | background     |
| ENSGO00000224940.8 | -1.85014353  | 5           | 5     | background | 5              |
| ENSGO00000226650.5 | 3.484512606  | NA          | background | background | background     |
| Gene ID              | Log2 Fold Change | Classification | t-value | p-value |
|---------------------|-----------------|---------------|---------|---------|
| ENSG00000227268.3   | 1.533710854     | NA            | 4       | 4       |
| ENSG000002228278.3  | 3.777133276     | background    | background | background | 5 |
| ENSG000002229544.8  | -1.489339605    | background    | 5       | 4       |
| ENSG000002231852.6  | 3.503555079     | S background  | background | background | 5 |
| ENSG000002231887.6  | 1.803607695     | background    | background | background | 4 |
| ENSG000002233822.4  | 1.37268715      | NA            | NA      | background | 4 |
| ENSG000002234224.2  | -1.604956479    | NA            | background | background | background |
| ENSG000002234906.9  | 3.345099111     | background    | background | background | 4 |
| ENSG000002234965.2  | -1.384100723    | background    | NA      | background | 5 |
| ENSG000002235169.7  | -1.953761782    | background    | background | background | 4 |
| ENSG000002237452.2  | -1.16112335     | background    | background | background | 5 |
| ENSG000002239704.10 | 1.1373729       | background    | background | background | 4 |
| ENSG000002240184.6  | 1.216671174     | background    | background | background | 4 |
| ENSG000002240303.7  | -1.047400964    | 5 background  | 5       | 4       |
| ENSG000002240694.8  | -1.366896029    | background    | 4       | background | 4 |
| ENSG000002241468.7  | -1.36041792     | NA            | background | background | 4 |
| ENSG000002241489.7  | -1.25009451     | background    | background | background | 4 |
| ENSG000002241697.4  | -1.18559541     | background    | 5       | 4       |
| ENSG000002241945.7  | -1.573262073    | background    | background | background | 4 |
| ENSG000002242220.6  | 1.598852305     | background    | background | background | 4 |
| ENSG000002242265.5  | 4.326960936     | NA            | background | 4       | 4 |
| ENSG000002243207.6  | 1.558541066     | NA            | NA      | 5       |
| ENSG000002243649.8  | 1.444243323     | background    | background | background | 4 |
| ENSG000002243955.5  | 2.787853501     | background    | background | background | 5 |
| ENSG000002244242.1  | 3.328097885     | NA            | 5       | 5       | 5 |
| ENSG000002244607.5  | 1.454564739     | S background  | 4       | background | 4 |
| ENSG000002244617.2  | 1.101018737     | NA            | background | background | 5 |
| ENSG000002244731.7  | 2.675574314     | background    | background | background | 5 |
| ENSG000002250673.2  | 1.668672547     | background    | 5       | background | 4 |
| ENSG000002251357.4  | 8.273560521     | background    | NA      | background | 4 |
| ENSG000002253293.4  | 1.364785888     | NA            | NA      | background | 5 |
| ENSG000002255526.6  | 2.00575548      | background    | NA      | 4       |
| ENSG000002256771.3  | 2.634319349     | background    | 5       | 5       |
| ENSG000002257017.4  | 2.725007069     | background    | background | background | 5 |
| ENSG000002257743.8  | 3.244504043     | S background  | 5       | background | 4 |
| ENSG000002258947.6  | 1.458584483     | background    | background | background | 4 |
| ENSG000002259030.6  | -1.509608173    | background    | NA      | 4       |
| ENSG000002260272.1  | 1.815553565     | background    | 5       | 4       |
| ENSG000002260286.3  | 2.183849763     | NA            | background | background | 5 |
| ENSG000002260342.2  | 1.452354398     | background    | NA      | 5       |
| ENSG000002260836.1  | 6.38782193      | background    | NA      | NA      | 5 |
| Gene ID               | Value  | Background 1 | Background 2 | Background 3 | Background 4 |
|----------------------|--------|--------------|--------------|--------------|--------------|
| ENSG00000261150.2    | 1.682700444 | background | background | background | 5           |
| ENSG00000261587.2    | 3.07549858   | background | background | background | 4           |
| ENSG00000262621.4    | -3.041866702 | background | background | background | 5           |
| ENSG00000263020.6    | -1.557631011 | background | NA          | NA          | 4           |
| ENSG00000265590.9    | -1.06133344 | NA          | background | background | 5           |
| ENSG00000266086.1    | -1.035540798 | background | background | background | 4           |
| ENSG00000268083.5    | 7.010803971  | background | NA          | NA          | 4           |
| ENSG00000272031.2    | -1.04388506  | background | 5           | 5           | 5           |
| ENSG00000272196.2    | 1.426503713  | NA          | background | background | 5           |
| ENSG00000273841.4    | -1.389259632 | NA          | background | background | 4           |
| ENSG00000274750.2    | 1.449884663  | NA          | background | background | 4           |
| ENSG00000275074.1    | -1.331907547 | background | background | background | 4           |
| ENSG00000275342.4    | 1.186058418  | background | background | background | 5           |
| ENSG00000276076.4    | 4.110648985  | NA          | background | background | 5           |
| ENSG00000276302.1    | 3.772446646  | background | background | background | 4           |
| ENSG00000277149.4    | 1.168344752  | background | background | background | 4           |
| ENSG00000277865.4    | 1.182351258  | 5           | NA          | background | 4           |
| ENSG00000279765.3    | 1.545547222  | 5           | 5           | NA          | 4           |
| ENSG00000280433.1    | 1.091256928  | background | NA          | background | 5           |
| ENSG00000282988.1    | 2.389964421  | NA          | background | background | 5           |
| ENSG00000004777.18   | -1.111881421 | background | background | background | 5           |
| ENSG00000006534.15   | -1.005890536 | background | background | background | 5           |
| ENSG00000008226.19   | -1.712629223 | background | background | background | 5           |
| ENSG00000011347.9    | -1.076481869 | 5           | background | background | 5           |
| ENSG00000026025.15   | -2.386528973 | background | background | background | 5           |
| ENSG00000049192.14   | -1.655360128 | 5           | background | background | 4           |
| ENSG00000049249.8    | -1.739746926 | background | background | background | 5           |
| ENSG00000061656.9    | -1.10948318  | background | background | background | 5           |
| ENSG00000063180.8    | -2.494831094 | background | background | background | 5           |
| ENSG00000066813.14   | 1.045632013  | background | background | background | 5           |
| ENSG00000069712.12   | 1.622599319  | background | NA          | NA          | background  |
| ENSG00000070404.9    | -1.076408091 | NA          | background | background | 5           |
| ENSG00000071575.11   | -1.842617427 | background | background | background | 5           |
| ENSG00000075073.14   | -1.693101636 | background | background | background | 4           |
| ENSG00000076641.4    | -3.295487704 | background | background | background | 3           |
| ENSG00000078989.6    | -1.067874372 | background | background | background | 5           |
| ENSG00000079900.14   | -1.128290196 | background | background | background | 5           |
| ENSG00000079263.18   | 1.251258618  | background | background | background | 5           |
| ENSG00000079308.16   | -1.650002285 | background | background | 4           | 4           |
| ENSG00000079435.9    | -1.437791713 | background | background | background | 5           |
|       | ENSG00000079689.13 | 1.081667618 | background | background | background | 5 |
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|       | ENSG000000080031.9 | -1.149183223 | background | background | background | 5 |
|       | ENSG000000084110.10 | -1.421278218 | background | background | background | 5 |
|       | ENSG000000089127.12 | -1.060148518 | 5          | background | background | 5 |
|       | ENSG000000092096.16 | -1.80522129 | background | background | background | 5 |
|       | ENSG000000095752.6 | 1.500249783 | background | background | background | 5 |
|       | ENSG000000100290.2 | -1.176670899 | background | background | background | 5 |
|       | ENSG000000100557.9 | 1.020183435 | background | background | background | 5 |
|       | ENSG000000101197.12 | -1.108073226 | background | background | background | 4 |
|       | ENSG000000101210.10 | -1.100893913 | background | background | background | 4 |
|       | ENSG000000101230.5 | 1.448106134 | background | background | background | 5 |
|       | ENSG000000104371.4 | -1.108360391 | background | background | background | 5 |
|       | ENSG000000104722.13 | -1.884042352 | background | background | background | 5 |
|       | ENSG000000105376.4 | -1.214396686 | NA         | background | background | 5 |
|       | ENSG000000105499.13 | -1.014541501 | background | background | NA         | 5 |
|       | ENSG000000105695.14 | -1.34953814 | background | background | background | 5 |
|       | ENSG000000105707.13 | -1.082499549 | background | background | background | 5 |
|       | ENSG000000105825.11 | 1.860528762 | background | background | background | 5 |
|       | ENSG000000106327.12 | -1.148693695 | background | background | background | 5 |
|       | ENSG000000106333.12 | -1.10621013 | background | background | background | 5 |
|       | ENSG000000106976.20 | -2.3442576 | background | background | background | 5 |
|       | ENSG000000107331.16 | -1.427361809 | 4          | background | background | 4 |
|       | ENSG000000107819.13 | -1.002245862 | background | background | background | 5 |
|       | ENSG000000108771.12 | -1.037453774 | background | background | background | 5 |
|       | ENSG000000109063.14 | 1.032610511 | background | background | background | 5 |
|       | ENSG000000110245.11 | -1.271865266 | background | background | background | 5 |
|       | ENSG000000110693.17 | -1.192612806 | background | background | background | 4 |
|       | ENSG000000111077.17 | -1.954925616 | 5          | background | background | 4 |
|       | ENSG000000111335.12 | -2.610566536 | background | background | background | 5 |
|       | ENSG000000111700.12 | 1.08976511 | background | background | background | 5 |
|       | ENSG000000111716.12 | -1.762080526 | background | background | background | 5 |
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|       | ENSG000000112494.9 | -1.305197523 | background | background | background | 5 |
|       | ENSG000000112818.9 | -1.826982779 | background | background | background | 5 |
|       | ENSG000000113721.13 | -1.359859211 | background | background | background | 5 |
|       | ENSG000000113966.9 | 1.034707732 | background | background | background | 5 |
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|       | ENSG000000115255.10 | -1.049880413 | background | background | background | 4 |
|       | ENSG000000115257.15 | -1.071541124 | background | background | background | 4 |
|       | ENSG000000115457.9 | -1.002346625 | background | background | background | 5 |
| Gene ID         | Value    | Background | Value | Background | Value |
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| ENSG00000117616.17 | 1.251880346 | background | background | background | 5 |
| ENSG00000119125.16 | -1.03833453 | background | background | background | 4 |
| ENSG00000119922.9 | -2.750655628 | NA | background | background | 5 |
| ENSG00000120738.7 | 1.087460809 | NA | background | background | 5 |
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| ENSG00000122133.16 | 2.161119536 | background | background | background | 5 |
| ENSG00000124613.8 | 1.156203972 | NA | background | background | 5 |
| ENSG00000124635.8 | 2.416592507 | NA | NA | NA | background |
| ENSG00000124762.13 | 1.016863366 | NA | background | background | 5 |
| ENSG00000126259.19 | -1.939540189 | background | background | background | 4 |
| ENSG00000126709.14 | -2.9762675 | NA | background | background | 5 |
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| ENSG00000128242.12 | -1.041555878 | NA | background | background | 5 |
| ENSG00000128510.10 | 1.907260547 | background | background | background | 4 |
| ENSG00000129646.14 | 1.07711619 | background | background | background | 5 |
| ENSG00000130513.6 | 1.186545767 | NA | background | background | 5 |
| ENSG00000130598.15 | -2.06917803 | background | NA | background | 5 |
| ENSG00000130653.15 | -1.493698657 | background | background | background | 5 |
| ENSG00000130821.15 | -1.22769842 | background | background | background | 5 |
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| ENSG00000131482.9 | -2.916466952 | background | background | background | 5 |
| ENSG00000132692.18 | -1.0507816 | background | background | background | 5 |
| ENSG00000132744.7 | -1.310127459 | background | background | background | 5 |
| ENSG00000133124.11 | -1.747715721 | NA | background | background | 5 |
| ENSG00000133477.16 | -1.997396215 | background | background | background | 5 |
| ENSG00000133665.12 | 1.28670835 | NA | background | background | 5 |
| ENSG00000133800.8 | 1.430914344 | background | background | background | 5 |
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| ENSG00000134531.9 | 1.796347976 | background | background | background | 5 |
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| ENSG00000134954.14 | 1.62234834 | background | background | background | 5 |
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| ENSG00000135917.13 | 1.971024587 | background | background | background | 5 |
| Gene ID          | Log2FC  | Status | Annotation | Value  |
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| ENSG00000135919.12 | 1.451410654 | background | background | 5      |
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| ENSG00000137193.13 | -1.123349396 | background | background | 5      |
| ENSG00000137331.11 | 1.134356342 | NA     | background | 5      |
| ENSG00000137491.14 | -1.021776574 | background | background | 5      |
| ENSG00000137752.23 | -1.187102661 | background | background | 5      |
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| ENSG00000139044.10 | 1.28788488 | background | background | 4      |
| ENSG00000139914.6 | -1.270613804 | NA     | background | 4      |
| ENSG00000140107.10 | -1.358165589 | background | background | 5      |
| ENSG00000140403.12 | 1.76096119 | background | background | 5      |
| ENSG00000141235.8 | -1.08729139 | background | NA      | 4      |
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| ENSG00000142549.9 | -1.525816808 | background | NA      | 5      |
| ENSG00000143365.17 | -1.15161216 | background | background | 4      |
| ENSG00000143479.15 | 1.284053008 | background | background | 5      |
| ENSG00000143631.10 | 3.034601378 | NA     | background | 5      |
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| ENSG00000144596.12 | 2.191205358 | background | background | 5      |
| ENSG00000144834.13 | 3.612544959 | background | background | 5      |
| ENSG00000146216.11 | -1.339614554 | background | background | 4      |
| ENSG00000146592.16 | -1.019068155 | background | background | 3      |
| ENSG00000147082.17 | 1.959017424 | background | background | 5      |
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| ENSG00000183747.11 | 1.177533602  | 5          | background | background | 5     |
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| ENSG00000188747.8  | -1.390375355 | background | background | background | 5     |
| ENSG00000188897.8  | -1.969610368 | 5          | background | background | 4     |
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| ENSG00000196754.10 | 1.394329705  | background | background | background | 5     |
| Ensembl ID               | Log2 Ratio |德育 | 德育 | 德育 | 德育 | 德育 |
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| ENSG00000204389.9      | 1.167104782| NA | background | background | background | 4 |
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| ENSG00000249992.1      | 1.713013319| NA | background | background | background | 5 |
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| ENSG00000266714.7      | -1.276213111| background | NA | NA | background | 5 |
| ENSG00000268696.4      | -1.685276422| 5 | background | background | background | 5 |
| ENSG00000268104.2      | 1.505958629 | 4 | background | background | 5 | 4 |
| ENSG00000275152.4      | -1.189077804| background | background | background | background | 5 |
| ENSG00000275832.4      | -1.273201893| background | background | background | background | 5 |
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| ENSG00000276180.1      | 1.393621229| NA | background | background | background | 5 |
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| ENSG00000281106.2      | 1.359830169| NA | background | background | background | 5 |
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| ENSG000000008226.19 | -1.16054778     | background | background | 5          | 5          |
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| ENSG000000011052.21 | 1.038958927     | background | background | 5          | 5          |
| ENSG000000012504.13 | 1.73367952      | background | background | 4          | 4          |
| ENSG000000013588.7  | -1.71770684     | background | background | 4          | 4          |
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| ENSG000000015568.12 | -1.90784086     | background | background | 4          | 4          |
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| ENSG000000023839.10 | -1.050925909    | background | background | 4          | 4          |
| ENSG000000023909.9  | -1.146972746    | background | background | 5          | 5          |
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| ENSG00000003122.18 | -1.304892482    | background | background | 4          | 4          |
| ENSG000000032442.15 | -1.316177741    | background | background | 4          | 4          |
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| ENSG000000039537.13 | 1.310549169     | background | background | 4          | 4          |
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| ENSG000000048052.21 | -3.448701978    | background | NA         | NA         | 4          |
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| ENSG000000049323.15 | -1.385060728    | background | background | 4          | 4          |
| ENSG000000050555.17 | -1.195223335    | background | background | 5          | 5          |
| ENSG000000052344.15 | 1.08987062      | background | background | background | background |
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| ENSG000000054148.17 | 1.209876103     | background | background | background | background |
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| Gene ID          | log2 Fold Change | Expression | Genotype | Genotype | Genotype | Genotype |
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| ENSG000000064042.17 | -5.375574737     | background | background | background | background | background |
| ENSG000000064201.15 | -3.873310789     | background | background | background | background | background |
| ENSG000000064300.8  | -2.320413697     | background | background | background | background | background |
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| ENSG000000070669.16 | 1.3556735        | background | background | background | background | background |
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| ENSG000000072501.17 | -1.137810076     | background | background | background | background | background |
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| ENSG000000078401.6  | -1.778546949     | background | background | background | background | background |
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| ENSG000000082576.17 | -1.323424721     | background | background | background | background | background |
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| ENSG00000107560.10  | -1.077595064 | background | background | background | background |
| ENSG00000107593.16  | 2.574830271 | background | background | background | background |
| ENSG00000107796.13  | 1.441476952 | background | background | background | background |
| ENSG00000107984.9   | -1.22738609 | background | background | background | background |
| ENSG00000108375.12  | -1.05518456 | background | background | background | background |
| ENSG00000108830.9   | 1.469825681 | background | background | background | background |
| ENSG00000110042.7   | 1.492743528 | background | background | background | background |
| ENSG00000110169.10  | 2.338027796 | background | background | background | background |
| Gene ID           | Log2 Fold Change | Value     | | | | | |
|------------------|-----------------|-----------|---|---|---|---|---|
| ENSG00000110245.11 | 1.393805714     | background| background | background | background | background | 4 |
| ENSG00000110436.11 | 1.563282662     | background| background | background | background | background | 5 |
| ENSG00000110693.17 | -1.530611624    | background| background | background | background | background | 5 |
| ENSG00000110887.7  | 2.445868745     | background| background | background | background | background | 5 |
| ENSG00000110921.13 | 1.074794947     | background| background | background | background | background | 5 |
| ENSG00000111181.12 | 2.01561896      | background| background | background | background | background | 5 |
| ENSG00000111261.13 | -1.07103535     | background| background | background | background | background | 5 |
| ENSG00000111275.12 | 1.025232273     | background| background | background | background | background | 5 |
| ENSG00000111291.18 | 1.984612183     | NA        | NA | NA | background | background | 5 |
| ENSG00000111335.12 | -1.51324279     | background| background | background | background | background | 5 |
| ENSG00000111344.11 | 2.512869565     | background| background | background | background | background | 5 |
| ENSG00000111700.12 | 2.347607993     | background| background | background | background | background | 5 |
| ENSG00000111716.12 | -1.253238491    | background| background | background | background | background | 5 |
| ENSG000001112183.14 | -1.263651923    | background| background | background | background | background | 5 |
| ENSG000001112186.11 | -1.131051551    | background| background | background | background | background | 5 |
| ENSG000001112319.17 | -4.19438353     | background| background | background | background | background | 5 |
| ENSG000001112379.8  | -1.032561346    | background| background | background | background | background | 5 |
| ENSG00000113083.13 | -1.340669455    | background| background | background | background | background | 5 |
| ENSG00000113356.11 | -1.155425529    | background| background | background | background | background | 5 |
| ENSG00000113721.13 | -1.253243628    | background| background | background | background | background | 5 |
| ENSG00000113889.11 | 2.568060326     | background| background | background | background | background | 5 |
| ENSG00000114115.9  | -1.2049216      | background| background | background | background | background | 5 |
| ENSG00000115009.11 | 1.275252396     | background| background | background | background | background | 5 |
| ENSG00000115129.13 | 1.438761123     | background| background | background | background | background | 5 |
| ENSG00000115318.11 | -1.843876923    | background| background | background | background | background | 5 |
| ENSG00000115423.18 | 5.413224856     | background| background | background | background | background | 4 |
| ENSG00000115457.9  | -1.236092081    | background| background | background | background | background | 5 |
| ENSG00000115641.18 | -1.121329764    | background| background | background | background | background | 3 |
| ENSG00000116128.10 | -1.019675493    | background| background | background | background | background | 5 |
| ENSG00000116194.12 | -1.247908707    | 5 | background | background | background | background | 4 |
| ENSG00000116260.16 | -1.215320572    | background| background | background | background | background | 4 |
| ENSG00000116299.16 | 2.366091413     | background| background | background | background | background | 4 |
| ENSG00000116678.19 | -1.776268134    | 5 | background | background | background | background | 4 |
| ENSG00000116984.12 | -1.026954422    | background| background | background | background | background | 5 |
| ENSG00000117394.20 | -1.874040717    | background| background | background | background | background | 4 |
| ENSG00000117601.13 | 1.922786099     | background| background | background | background | background | 5 |
| ENSG00000118137.9  | 1.011497805     | background| background | background | background | background | 5 |
| ENSG00000118156.12 | -1.880694863    | background| background | background | background | background | 5 |
| ENSG00000118496.4  | -1.043079577    | background| background | background | background | background | 5 |
| ENSG00000118514.13 | 1.47617541      | background| background | background | background | background | 5 |
| ENSG00000118520.14 | 1.35556434      | background| background | background | background | background | 5 |
| Gene ID  | TSS Location | Log2FoldChange | Background | Feature Count |
|---------|--------------|----------------|------------|--------------|
| ENSG00000118729.11 | -5.528920699 | background | background | 5 |
| ENSG00000118972.1 | 1.234523937 | background | background | 5 |
| ENSG00000119125.16 | -1.403859508 | background | background | 4 |
| ENSG00000119630.13 | 1.69334175 | background | background | 5 |
| ENSG00000119699.7 | -1.212384875 | background | background | 4 |
| ENSG00000119711.12 | 1.09367098 | background | background | 5 |
| ENSG00000119737.5 | -1.788127759 | NA | background | 5 |
| ENSG00000119782.13 | 1.271105344 | background | background | 5 |
| ENSG00000119922.9 | 1.149010502 | NA | background | 5 |
| ENSG00000120437.8 | 1.345713685 | background | background | 4 |
| ENSG00000120784.15 | -1.429036166 | background | background | 5 |
| ENSG00000120802.13 | -1.065293455 | background | background | 5 |
| ENSG00000120875.8 | -1.082785546 | background | background | 5 |
| ENSG00000120899.17 | 1.048267738 | background | background | 5 |
| ENSG00000121075.9 | -2.113308858 | background | background | 5 |
| ENSG00000121270.15 | 2.16299058 | background | background | 3 |
| ENSG00000121410.11 | 1.149010502 | NA | background | 5 |
| ENSG00000121552.3 | 3.725890041 | NA | background | 5 |
| ENSG00000121769.7 | 1.290700362 | background | background | 5 |
| ENSG00000121858.10 | 1.14336045 | background | background | 4 |
| ENSG00000122644.12 | -1.010997283 | NA | background | 5 |
| ENSG00000122787.14 | 1.558406012 | background | background | 5 |
| ENSG00000123240.16 | 1.126763178 | background | background | 5 |
| ENSG00000123405.13 | -1.485865378 | background | background | 5 |
| ENSG00000123454.10 | 1.043481417 | background | background | 5 |
| ENSG00000123560.13 | -1.644911298 | background | background | 5 |
| ENSG00000124003.12 | 1.223646429 | background | NA | 5 |
| ENSG00000124140.13 | 1.123583694 | background | background | 4 |
| ENSG00000124143.10 | -1.305841175 | background | background | 5 |
| ENSG00000124201.14 | -1.008685925 | background | background | 5 |
| ENSG00000124602.9 | -1.43791562 | background | background | 5 |
| ENSG00000124635.8 | 2.243269087 | NA | NA | 5 |
| ENSG00000124713.5 | 2.50175728 | background | background | 5 |
| ENSG00000124743.5 | -1.338934048 | background | background | 5 |
| ENSG00000124762.13 | 1.338973448 | NA | background | 5 |
| ENSG00000125122.15 | 1.325141774 | background | background | 5 |
| ENSG00000125434.10 | 1.038855455 | NA | background | 5 |
| ENSG00000125740.13 | 1.747248848 | background | background | 5 |
| ENSG00000125848.9 | -1.13291655 | background | background | 5 |
| ENSG00000126353.3 | -1.386758667 | background | background | 5 |
| Gene ID     | Value       | Type | Rank | Background | Annotation |
|------------|-------------|------|------|------------|------------|
| ENSG00000126709.14 | -1.794576607 | NA   |      | background | background |
| ENSG00000126822.16 | -1.073111495 | background |      | background | background |
| ENSG00000127081.13 | -1.98952886 | background |      | background | background |
| ENSG00000127324.8 | -1.401744203 | background |      | background | background |
| ENSG00000127561.14 | 1.62855409  | background |      | background | background |
| ENSG00000127578.6 | 1.431809557 | NA   |      | background | background |
| ENSG00000127743.5 | 1.6549915   | background |      | background | background |
| ENSG00000127824.13 | -1.564856588 | background |      | background | background |
| ENSG00000128011.4 | -1.23987651 | NA   |      | background | background |
| ENSG00000128165.8 | 1.512794066 | background |      | background | background |
| ENSG00000128274.15 | -1.844954727 | NA   |      | background | background |
| ENSG00000128564.6 | 1.81850142  | NA   |      | background | background |
| ENSG00000129167.9 | -1.48383433 | background |      | background | background |
| ENSG00000129214.14 | 2.57768392  | background |      | background | background |
| ENSG00000129354.11 | 1.378751615 | background |      | background | background |
| ENSG00000129355.6 | 1.070178681 | NA   |      | background | background |
| ENSG00000129596.4 | 1.553935357 | background |      | background | background |
| ENSG00000129646.14 | 1.3484366   | background |      | background | background |
| ENSG00000129682.15 | -1.02678849 | background |      | background | background |
| ENSG00000129990.14 | 2.856203224 | background |      | background | background |
| ENSG00000130203.9 | 1.303611055 | background |      | background | background |
| ENSG00000130427.2 | 1.450403582 | background |      | background | background |
| ENSG00000130477.15 | 1.244582034 | background |      | NA | background |
| ENSG00000130561.16 | -2.644903523 | background |      | background | background |
| ENSG00000130635.15 | -2.670026266 | background |      | background | background |
| ENSG00000130707.17 | 1.486339932 | background |      | background | background |
| ENSG00000130749.9 | -1.236285481 | background |      | background | background |
| ENSG00000130876.11 | 2.195501953 | background |      | background | background |
| ENSG00000130988.12 | 1.051912085 | background |      | background | background |
| ENSG00000131069.19 | 1.985499895 | background |      | background | background |
| ENSG00000131233.9 | -2.170038138 | NA   |      | background | background |
| ENSG00000131386.17 | 1.451815484 | background |      | background | background |
| ENSG00000131746.12 | -1.89312636 | background |      | background | background |
| ENSG00000132031.12 | -1.802834101 | NA   |      | background | background |
| ENSG00000132207.17 | 1.201848957 | background |      | background | background |
| ENSG00000132517.14 | 1.989087768 | background |      | background | background |
| ENSG00000132563.15 | 1.347528633 | background |      | background | background |
| ENSG00000132854.18 | 1.539860289 | background |      | background | background |
| ENSG00000133048.12 | -2.659495404 | background |      | background | background |
| ENSG00000133055.8 | -3.578504429 | background |      | background | background |
| ENSG00000133124.11 | -1.706518831 | NA   |      | background | background |
| Gene ID            | Log2 Fold Change | P-value  | Status | Tissue Type | Gene ID            | Log2 Fold Change | P-value  | Status | Tissue Type |
|-------------------|------------------|----------|--------|-------------|-------------------|------------------|----------|--------|-------------|
| ENSG00000133169.5 | 1.902827139      | NA       | background | background | ENSG00000134531.9 | -1.52851387    | background | background | background |
| ENSG00000133433.10 | 1.046475532      | background | background | background | ENSG00000134588.12 | -4.095021713  | NA       | background | background |
| ENSG00000133816.13 | -1.579968708     | background | background | background | ENSG00000134762.16 | 1.653238792    | background | background | background |
| ENSG00000133935.6 | 1.27755069       | background | background | background | ENSG00000134962.6 | 1.253073492    | background | background | background |
| ENSG00000134240.11 | -2.88689977      | background | background | background | ENSG00000134987.11 | -1.145971743  | background | background | background |
| ENSG00000134321.11 | -1.514758204     | background | background | background | ENSG00000135074.15 | -1.430929191  | background | background | background |
| ENSG00000134323.11 | -1.579968708     | background | background | background | ENSG00000135116.9 | 4.324400146   | NA       | background | background |
| ENSG00000134531.9 | -1.52851387      | background | background | background | ENSG00000135119.14 | 1.407965463   | background | background | background |
| ENSG00000134532.12 | -5.216325721     | background | background | background | ENSG00000135253.13 | 1.010434179   | background | background | background |
| ENSG00000134533.6 | 1.27755069       | background | background | background | ENSG00000135423.12 | 1.211785491   | background | background | background |
| ENSG00000134534.1 | -1.328632723     | background | background | background | ENSG00000135424.15 | -1.430929191  | background | background | background |
| ENSG00000134535.6 | 1.27755069       | background | background | background | ENSG00000135439.11 | 1.312039416   | background | background | background |
| ENSG00000134536.13| -0.60080304      | background | background | background | ENSG00000135549.10 | 1.170421428   | NA       | background | background |
| ENSG00000134537.13| 2.164094503      | background | background | background | ENSG00000135638.13 | 2.164094503   | background | background | background |
| ENSG00000134538.13| 2.164094503      | background | background | background | ENSG00000135643.4 | 2.129992528   | background | background | background |
| ENSG00000134539.11| 1.981009477      | background | background | background | ENSG00000135678.11 | 1.981009477   | background | background | background |
| ENSG00000134540.11| -2.093028106     | background | background | background | ENSG00000136003.15 | 1.02092868    | background | background | background |
| ENSG00000134541.11| -2.093028106     | background | background | background | ENSG00000136367.13 | 1.45734987    | background | background | background |
| ENSG00000134542.11| -2.093028106     | background | background | background | ENSG00000136383.6 | -3.120799992  | background | background | background |
| ENSG00000134543.11| -2.093028106     | background | background | background | ENSG00000136490.8 | 1.048163952   | background | background | background |
| ENSG00000134544.11| -2.093028106     | background | background | background | ENSG00000136689.18 | 1.089071448   | background | background | background |
| ENSG00000134545.11| -2.093028106     | background | background | background | ENSG00000136717.14 | 2.129992528   | background | background | background |
| ENSG00000134546.11| -2.093028106     | background | background | background | ENSG00000136881.11 | 1.02092868    | background | background | background |
| ENSG00000134547.11| -2.093028106     | background | background | background | ENSG00000136928.6 | 4.251907297   | background | background | background |
| ENSG00000134548.11| -2.093028106     | background | background | background | ENSG00000136960.12 | 1.448241323   | background | background | background |
| ENSG00000134549.11| -2.093028106     | background | background | background | ENSG00000137103.17 | 1.081739366   | background | background | background |
| ENSG00000134550.11| -2.093028106     | background | background | background | ENSG00000137133.10 | 1.134582168   | background | background | background |
| ENSG00000134551.11| -2.093028106     | background | background | background | ENSG00000137288.9 | 1.10462681    | background | background | background |
| ENSG00000134552.11| -2.093028106     | background | background | background | ENSG00000137331.11 | 1.02092868    | background | background | background |
| ENSG00000134553.11| -2.093028106     | background | background | background | ENSG00000137501.17 | -1.356872069  | background | background | background |
| ENSG00000134554.11| -2.093028106     | background | background | background | ENSG00000137573.13 | -5.216325721  | background | background | background |
| ENSG00000134555.11| -2.093028106     | background | background | background | ENSG00000137628.16 | -1.595084067  | background | background | background |
| ENSG00000134556.11| -2.093028106     | background | background | background | ENSG00000137731.13 | 2.243090965   | background | background | background |
| Gene ID          | log2FoldChange | P.Value | Adj.P.Value | Strain1 | Strain2 | Strain3 | Strain4 | Strain5 |
|-----------------|----------------|---------|-------------|---------|---------|---------|---------|---------|
| ENSG00000137752.23 | 1.565786479    | background | background | background | background | background | background | background |
| ENSG00000137801.10     | -1.142665755    | background | background | background | background | background | background | background |
| ENSG00000137834.14    | -1.158479868    | background | background | background | background | background | background | background |
| ENSG00000137869.14    | 1.885071906     | background | background | background | background | background | background | background |
| ENSG00000138031.14    | -1.262599703    | background | background | background | background | background | background | background |
| ENSG00000138119.16    | -1.425216238    | background | background | NA       | background | background | background | background |
| ENSG00000138678.10    | -0.108769147    | background | background | background | background | background | background | background |
| ENSG00000138772.12    | -0.19425799     | background | background | background | background | background | background | background |
| ENSG00000139219.17    | 1.755973809     | background | background | background | background | background | background | background |
| ENSG00000139266.5     | 1.085890415     | background | background | background | background | background | background | background |
| ENSG00000139269.2     | 1.784734511     | background | background | background | background | background | background | background |
| ENSG00000139354.10    | -0.19140561     | background | background | background | background | background | background | background |
| ENSG00000139410.14    | 1.664868959     | background | background | background | background | background | background | background |
| ENSG00000139567.12    | -4.836488728    | background | background | background | background | background | background | background |
| ENSG00000139625.12    | -1.494042786    | background | background | background | background | background | background | background |
| ENSG00000139914.6     | 1.238760283     | background | background | NA       | background | background | background | background |
| ENSG00000139988.9     | 1.27235969      | background | background | background | background | background | background | background |
| ENSG00000140044.12    | 1.613993526     | background | background | background | background | background | background | background |
| ENSG00000140067.6     | 2.377675678     | background | background | background | background | background | background | background |
| ENSG00000140092.14    | -0.196368563    | background | background | background | background | background | background | background |
| ENSG00000140323.5     | 2.538301159     | background | background | background | background | background | background | background |
| ENSG00000140450.8     | -1.329491432    | background | background | background | background | background | background | background |
| ENSG00000140807.6     | -1.422184237    | background | background | background | background | background | background | background |
| ENSG00000140832.9     | 1.195975142     | background | background | background | background | background | background | background |
| ENSG00000141444.8     | -1.08340919     | background | background | background | background | background | background | background |
| ENSG00000141504.11    | 1.348507438     | background | background | background | background | background | background | background |
| ENSG00000141540.10    | 1.087114616     | background | background | background | background | background | background | background |
| ENSG00000141574.7     | 1.789621906     | background | background | background | background | background | background | background |
| ENSG00000142182.8     | 1.396179112     | background | background | background | background | background | background | background |
| ENSG00000142549.9     | 1.109816634     | background | background | NA       | background | background | background | background |
| ENSG00000142606.15    | 5.67136005      | background | background | background | background | background | background | background |
| ENSG00000142765.17    | 1.039598826     | background | background | background | background | background | background | background |
| ENSG00000142959.4     | 1.217505968     | background | background | NA       | background | background | background | background |
| ENSG00000143127.12    | -1.743489075    | background | background | background | background | background | background | background |
| ENSG00000143217.8     | 1.506955785     | background | background | background | background | background | background | background |
| ENSG00000143382.14    | 1.014381847     | background | background | background | background | background | background | background |
| ENSG00000143412.9     | 1.214551417     | background | background | background | background | background | background | background |
| ENSG00000143476.17    | -1.030143873    | background | background | background | background | background | background | background |
| ENSG00000143845.14    | 1.220209663     | background | background | background | background | background | background | background |
| ENSG00000144035.3     | 1.249204155     | background | background | NA       | background | background | background | background |
| ENSG00000144452.14    | 1.996144571     | background | background | background | background | background | background | background |
| Gene ID          | Score Value | Type 1 | Type 2 | Type 3 | Type 4 | Type 5 |
|-----------------|-------------|--------|--------|--------|--------|--------|
| ENSG00000144596.12 | 3.028118956 | background | background | background | 5     |
| ENSG00000144785.8   | -1.050976082 | background | background | NA     | 5     |
| ENSG00000144834.13  | 2.492112419  | background | background | background | 5     |
| ENSG00000145287.10  | -1.33735216  | background | background | background | 5     |
| ENSG00000145416.13  | -1.068260278 | background | background | 4      | 4     |
| ENSG00000145536.15  | 4.461765984  | background | background | background | 4     |
| ENSG00000145692.14  | 2.6514329    | background | background | background | 5     |
| ENSG00000145832.12  | 2.73664994   | background | background | background | 5     |
| ENSG00000145975.14  | -3.309528084 | background | background | background | 5     |
| ENSG00000146094.13  | -1.08470831  | background | background | background | 5     |
| ENSG00000146416.17  | 1.051499379  | background | background | background | 4     |
| ENSG00000146592.16  | -1.06816932  | background | background | background | 4     |
| ENSG00000146755.10  | 2.63366082   | background | background | background | 5     |
| ENSG00000146757.13  | -1.07533835  | background | background | background | 5     |
| ENSG00000146839.18  | 1.810421751  | background | background | background | 5     |
| ENSG00000147155.10  | 1.06689085   | background | background | background | 5     |
| ENSG00000147400.8   | 1.274962496  | NA      | background | background | background |
| ENSG00000147408.14  | -1.21058943  | background | background | background | 3     |
| ENSG00000147465.11  | 2.750768562  | background | background | background | background |
| ENSG00000147804.9   | 1.059031867  | background | background | background | 5     |
| ENSG00000147852.15  | 1.216760241  | background | background | background | 5     |
| ENSG00000148082.9   | 1.75485008   | background | background | background | 4     |
| ENSG00000148290.9   | 1.004101112  | background | background | background | 4     |
| ENSG00000148655.14  | 1.197862416  | background | background | background | 5     |
| ENSG00000148798.10  | 1.276383173  | background | background | background | 5     |
| ENSG00000148832.15  | 1.036466668  | background | background | background | 5     |
| ENSG00000148926.9   | 1.342518246  | background | background | background | 5     |
| ENSG00000148965.9   | 2.280046879  | background | background | background | 5     |
| ENSG00000149124.10  | 1.160397867  | background | background | background | 4     |
| ENSG00000149212.11  | -1.056566536 | background | background | background | 5     |
| ENSG00000149328.14  | -1.506539016 | background | background | background | 5     |
| ENSG00000149428.18  | -1.124574802 | background | background | background | 5     |
| ENSG00000149503.12  | -1.058172198 | background | background | background | 5     |
| ENSG00000149527.17  | -1.17144313  | background | background | background | 5     |
| ENSG00000149679.11  | 1.009104108  | background | background | background | 4     |
| ENSG00000149735.6   | 1.414262599  | background | background | background | 4     |
| ENSG00000149742.9   | 1.454259708  | background | background | background | 5     |
| ENSG00000149809.14  | 1.778285823  | background | background | background | 5     |
| ENSG00000149968.11  | 1.359764138  | background | background | background | 5     |
| ENSG00000150275.17  | -3.972164017 | background | background | background | 4     |
| ENSG00000150347.14  | -1.242550593 | background | background | background | 4     |
| Gene ID          | Value         | Type | Location | Background | Count |
|-----------------|---------------|------|----------|------------|-------|
| ENSG00000150687.11 | -1.137742232 | NA   | background | background | 4     |
| ENSG00000150977.10 | 1.198545557  | background | background | background | 4     |
| ENSG00000151025.9 | -5.236507193 | background | background | background | 4     |
| ENSG00000151150.21 | -1.924918272 | background | background | background | 5     |
| ENSG00000151276.13 | 1.301790299  | background | background | background | 5     |
| ENSG00000151293.7 | -1.14538832  | background | background | background | 4     |
| ENSG00000152015.4 | 1.531446035  | NA   | background | background | 5     |
| ENSG00000152302.9 | 1.859735188  | NA   | background | background | 5     |
| ENSG00000152353.16 | 3.536056849  | background | background | background | 4     |
| ENSG00000153446.15 | 1.147059762  | background | background | background | 5     |
| ENSG00000153902.13 | 2.041746114  | background | background | background | 5     |
| ENSG00000154016.13 | -1.0206132   | background | background | background | 5     |
| ENSG00000154040.20 | 1.340116222  | background | background | background | 4     |
| ENSG00000154265.15 | 1.022843419  | background | background | background | 4     |
| ENSG00000154589.6 | 1.180083616  | background | background | background | 5     |
| ENSG00000154734.14 | -2.57603784  | background | background | background | 5     |
| ENSG00000154930.14 | 1.122248205  | background | background | background | 5     |
| ENSG00000155428.12 | 1.34342576   | NA   | background | background | 4     |
| ENSG00000155903.11 | -1.030337357 | background | background | background | 4     |
| ENSG00000155980.11 | -1.512967579 | background | background | background | 5     |
| ENSG00000156096.13 | 1.798667089  | background | background | background | 5     |
| ENSG00000156103.15 | -3.62328445  | background | background | background | 5     |
| ENSG00000156298.12 | 1.046508168  | background | background | background | 5     |
| ENSG00000156515.21 | -1.004643669 | background | background | background | 5     |
| ENSG00000156959.8 | 4.298372147  | background | background | background | 5     |
| ENSG00000156966.6 | -1.972480759 | NA   | background | background | 5     |
| ENSG00000157335.20 | 1.559579158  | background | background | background | 5     |
| ENSG00000157510.13 | 1.573399393  | 5    | background | background | 5     |
| ENSG00000157551.17 | 1.680698829  | background | background | background | 4     |
| ENSG00000157873.17 | 1.387902581  | background | background | background | 4     |
| ENSG00000157999.5 | -2.302037066 | NA   | background | background | 5     |
| ENSG00000158246.7 | -1.157326982 | NA   | background | background | 5     |
| ENSG00000158373.8 | 1.070805278  | NA   | background | background | 5     |
| ENSG00000158428.3 | 2.289869948  | background | background | background | 5     |
| ENSG00000158571.10 | 1.046881404  | background | background | background | 5     |
| ENSG00000158806.13 | 1.400895751  | background | background | background | 5     |
| ENSG00000158859.9 | -1.550637071 | background | background | background | 5     |
| ENSG00000158887.15 | -1.341549387 | background | background | background | 5     |
| ENSG00000159403.11 | 2.039738814  | NA   | background | background | 5     |
| ENSG00000159905.14 | -1.989469168 | 5    | background | background | 4     |
| Gene ID               | Log2Ratio | Expression Level |
|----------------------|-----------|-----------------|
| ENSG00000160097.16   | 1.60892766| background       |
| ENSG00000160183.13   | 1.35169548| background       |
| ENSG00000160285.14   | 1.001416401| background      |
| ENSG00000160323.18   | 1.286907464| background      |
| ENSG00000160326.13   | 1.30237941| background      |
| ENSG00000160870.12   | 1.624051857| background      |
| ENSG00000160932.10   | -1.02532371| background     |
| ENSG00000161513.11   | 1.044973288| background     |
| ENSG00000161544.9    | 2.165747935| background     |
| ENSG00000161682.14   | -1.049790572| background  |
| ENSG00000161835.10   | 1.482084305| background     |
| ENSG00000161896.11   | 3.811013261| background     |
| ENSG00000161939.19   | -1.462468633| background |
| ENSG00000162241.12   | 1.456637226| background     |
| ENSG00000162390.17   | -1.152700404| background |
| ENSG00000162458.12   | -1.070210622| background   |
| ENSG00000162511.7    | 1.572610889| background     |
| ENSG00000162512.15   | -1.135984347| background   |
| ENSG00000162543.5    | -2.595462661| background |
| ENSG00000162817.6    | 1.417958867| background     |
| ENSG00000162924.13   | -1.329883058| background |
| ENSG00000162946.21   | -1.043669484| background   |
| ENSG00000163083.5    | -1.122010931| background |
| ENSG00000163093.11   | -1.136760222| background   |
| ENSG00000163121.9    | 1.5001138| background     |
| ENSG00000163393.12   | 1.00692825| background     |
| ENSG00000163453.11   | -1.541209427| background |
| ENSG00000163577.7    | -1.284897102| background |
| ENSG00000163803.12   | -1.217584418| background   |
| ENSG00000163803.12   | -1.217584418| background   |
| ENSG00000163879.10   | 1.111491162| background     |
| ENSG00000163898.9    | -1.834705637| background   |
| ENSG00000163958.13   | 1.686745288| background     |
| ENSG00000163959.9    | 1.822738927| background     |
| ENSG00000163993.6    | 1.314071775| background     |
| ENSG00000164142.15   | 1.40536002| background     |
| ENSG00000164171.10   | -1.23410151| background     |
| ENSG00000164362.18   | -1.046665288| background   |
| ENSG00000164483.16   | -2.136860368| background     |
| ENSG00000164512.17   | 1.420782458| background     |
| ENSG00000164684.13   | -1.058691782| background   |
| Gene Accession | Value   | Type | Background | Value | Type | Background | Value | Type | Background | Value | Type | Background |
|---------------|---------|------|------------|-------|------|------------|-------|------|------------|-------|------|------------|
| ENSG00000164713.9 | 1.114981711 | background | background | background | 5 |
| ENSG00000164742.14 | 1.168380636 | background | background | background | 4 |
| ENSG00000164849.9 | -1.474707857 | NA | background | background | background |
| ENSG00000164938.13 | 1.295943428 | background | background | background | background |
| ENSG00000164949.7 | -2.46618477 | background | background | background | background |
| ENSG00000164949.7 | -2.46618477 | background | background | background | background |
| ENSG00000165272.14 | 1.333885557 | background | background | background | background |
| ENSG00000165449.11 | 1.113099387 | background | background | background | 4 |
| ENSG00000165471.6 | -1.24301844 | NA | background | background | background |
| ENSG00000165633.12 | -3.694214585 | NA | background | background | 5 |
| ENSG00000165861.13 | 1.158535305 | background | background | background | 5 |
| ENSG00000165949.12 | -4.796615189 | background | background | background | background |
| ENSG00000166035.10 | 1.045674881 | background | background | background | 5 |
| ENSG00000166126.10 | 1.48038506 | background | background | background | background |
| ENSG00000166171.12 | 1.046286116 | background | background | background | background |
| ENSG00000166311.9 | 1.049904228 | background | background | background | background |
| ENSG00000166405.14 | 1.102749232 | background | background | background | 4 |
| ENSG00000166415.14 | -1.344883123 | background | background | background | 5 |
| ENSG00000166510.13 | 1.682141439 | background | background | background | 5 |
| ENSG00000166816.13 | 1.319594977 | background | background | background | background |
| ENSG00000167244.18 | 1.561022779 | background | background | background | background |
| ENSG00000167378.8 | 1.073993346 | background | background | background | 5 |
| ENSG00000167395.10 | -1.11716922 | background | background | background | background |
| ENSG00000167508.11 | 1.190707541 | background | background | background | background |
| ENSG00000167600.13 | -2.157327667 | background | background | background | background |
| ENSG00000167601.11 | -1.346098507 | background | background | background | background |
| ENSG00000167625.10 | -1.047353336 | background | background | background | background |
| ENSG00000167741.10 | 1.382450461 | background | background | background | background |
| ENSG00000167755.14 | -2.375847473 | background | background | background | 5 |
| ENSG00000167767.13 | -1.66364398 | background | background | background | background |
| ENSG00000167772.11 | 1.041778861 | background | background | background | background |
| ENSG00000167920.8 | 1.35573781 | background | background | background | 5 |
| ENSG00000167964.12 | -1.946179609 | background | background | background | 4 |
| ENSG00000168077.13 | 1.129346299 | NA | background | background | 5 |
| ENSG00000168172.8 | -1.116043991 | background | background | background | 4 |
| ENSG00000168386.18 | -1.47077953 | background | background | background | 4 |
| ENSG00000168502.17 | -1.23904576 | background | background | background | 5 |
| ENSG00000168646.12 | -1.954633915 | NA | background | background | 4 |
| Gene ID               | Log2 Fold Change | Type | Type | Type | Type |
|----------------------|------------------|------|------|------|------|
| ENSG00000169174.10   | 1.17952134       | 5    | background | background | 5   |
| ENSG00000169403.11   | -1.787289113     | NA   | background | background | 5   |
| ENSG00000169429.10   | -1.413188116     | background | background | background | 5   |
| ENSG00000169507.9    | -1.166096407     | 5    | background | background | 5   |
| ENSG00000169629.11   | -1.212358085     | background | background | background | 4   |
| ENSG00000169752.16   | 1.094279117      | background | 5 | 5   |
| ENSG00000169885.9    | 4.062185472      | background | background | background | 5   |
| ENSG00000170099.5    | 1.81567361       | background | background | background | 5   |
| ENSG00000170271.10   | 1.252120945      | background | background | background | 5   |
| ENSG00000170324.20   | 2.59173201       | background | background | background | 5   |
| ENSG00000170345.9    | 3.212010938      | NA   | background | background | 5   |
| ENSG00000170396.7    | -1.29534047      | background | background | background | 4   |
| ENSG00000170458.13   | 1.400856804      | NA   | background | background | 5   |
| ENSG00000170525.19   | -1.050651024     | background | background | background | 5   |
| ENSG00000170835.14   | 1.690771269      | background | background | background | 5   |
| ENSG00000170855.3    | 1.058137743      | NA   | background | background | 5   |
| ENSG00000171502.14   | -2.190463147     | background | background | background | 3   |
| ENSG00000171564.11   | 1.786581717      | background | background | background | 5   |
| ENSG00000171766.15   | -1.131292109     | background | background | background | 5   |
| ENSG00000171791.12   | -1.181476758     | background | background | background | 5   |
| ENSG00000171877.20   | -1.115293082     | background | background | background | 5   |
| ENSG00000171992.12   | -1.245735977     | background | background | background | 5   |
| ENSG00000172000.7    | -1.018403591     | background | background | background | 5   |
| ENSG00000172167.7    | -1.085220772     | background | background | background | 5   |
| ENSG00000172379.20   | 2.5685006        | background | background | background | 5   |
| ENSG00000172469.15   | -1.032728892     | background | background | background | 5   |
| ENSG00000172478.17   | 1.693208582      | background | background | background | 5   |
| ENSG00000172482.4    | 1.995282601      | background | background | background | 5   |
| ENSG00000172650.13   | -1.010539805     | background | background | background | 5   |
| ENSG00000172738.11   | 1.483270703      | background | background | background | 5   |
| ENSG00000172782.11   | 1.708136625      | background | background | background | 4   |
| ENSG00000172889.15   | 1.414785576      | background | background | background | 4   |
| ENSG00000173110.7    | -2.384372907     | NA   | background | background | 5   |
| ENSG00000173436.13   | 1.100246949      | background | background | background | 5   |
| ENSG00000173567.14   | 1.7110387        | background | background | background | 4   |
| ENSG00000173702.7    | -1.831309437     | background | background | background | 4   |
| ENSG00000173714.7    | 2.681694022      | NA   | background | background | 4   |
| ENSG00000173762.7    | 1.254046982      | background | background | background | 4   |
| ENSG00000173918.14   | -2.128627817     | background | background | background | 5   |
| ENSG00000173926.5    | 1.931686103      | background | background | background | 5   |
| ENSG00000173930.8    | 1.266398914      | background | background | background | 5   |
| Gene ID         | Log2 Fold Change | Value         | Background | Background | Background | Background |
|----------------|------------------|---------------|------------|------------|------------|------------|
| ENSG00000174307.6 | 1.03055547       | background    | background | background | background | background |
| ENSG00000174358.15 | -2.967478555     | background    | background | background | background | background |
| ENSG00000174456.13 | 1.073897851      | NA            | background | background | background | background |
| ENSG00000174502.18 | -1.051705212     | background    | background | background | background | background |
| ENSG00000174529.7  | 1.093273466      | NA            | background | background | background | background |
| ENSG00000174567.7  | 1.049671419      | background    | background | background | background | background |
| ENSG00000174827.13 | 1.021424938      | background    | background | background | background | background |
| ENSG00000174992.7  | 1.40321825       | background    | background | background | background | background |
| ENSG00000175066.15 | -1.00212404      | background    | background | background | background | background |
| ENSG00000175305.17 | -1.32154285      | background    | background | background | background | background |
| ENSG00000175395.15 | -1.01737702      | background    | background | background | background | background |
| ENSG00000175505.10 | -1.36669189      | background    | background | background | background | background |
| ENSG00000175538.10 | -1.461589847     | background    | background | background | background | background |
| ENSG00000175600.15 | 1.274200961      | background    | background | background | background | background |
| ENSG00000175787.16 | -1.07825482      | background    | background | background | background | background |
| ENSG00000175938.6  | 1.464381965      | background    | background | background | background | background |
| ENSG00000176046.8  | 2.981497204      | background    | background | background | background | background |
| ENSG00000176428.5  | 1.234190594      | background    | background | background | background | background |
| ENSG00000176714.9  | -1.132844201     | NA            | background | background | background | background |
| ENSG00000176887.6  | 2.227825285      | NA            | background | background | background | background |
| ENSG00000176920.11 | -2.903151149     | NA            | background | background | background | background |
| ENSG00000177663.13 | -1.211605992     | background    | background | background | background | background |
| ENSG00000177873.12 | -1.180414455     | background    | background | background | background | background |
| ENSG00000178297.12 | 1.471241355      | background    | NA         | background | background | background |
| ENSG00000178502.5  | -1.551849393     | NA            | background | background | background | background |
| ENSG00000178537.9  | 1.776722949      | background    | background | background | background | background |
| ENSG00000178573.6  | 1.756971022      | NA            | background | background | background | background |
| ENSG00000178809.7  | 1.603029079      | NA            | background | background | background | background |
| ENSG00000179044.15 | 2.606820014      | background    | background | background | background | background |
| ENSG00000179168.14 | -3.290642885     | background    | background | background | background | background |
| ENSG00000179761.11 | 1.094304542      | background    | background | background | background | background |
| ENSG00000179913.10 | -1.88127901      | background    | background | background | background | background |
| ENSG00000180061.9  | 2.259688002      | background    | background | background | background | background |
| ENSG00000180263.13 | -1.339570576     | background    | background | background | background | background |
| ENSG00000180525.11 | -1.06669365      | background    | background | background | background | background |
| ENSG00000180532.10 | 1.403739196      | background    | background | background | background | background |
| ENSG00000180535.3  | -1.367261904     | NA            | background | background | background | background |
| ENSG00000180644.7  | -1.699867253     | NA            | background | background | background | background |
| ENSG00000180855.15 | -1.833120794     | background    | background | background | background | background |
| ENSG00000180938.5  | -1.047909353     | NA            | background | background | background | background |
| ENSG00000181418.7 | -1.372514535 | NA | background | background | background |
| ENSG00000181450.17 | -1.102552868 | background | background | background | 5 |
| ENSG00000181722.16 | 1.29376875 | 5 | 5 | 4 |
| ENSG00000182141.10 | -1.415020203 | background | background | background | 5 |
| ENSG00000182326.14 | 1.918069417 | background | background | background | 5 |
| ENSG00000183072.9 | 1.490631802 | background | background | background | 5 |
| ENSG00000183134.4 | 1.35535815 | background | background | background | 5 |
| ENSG00000183549.10 | 1.161228466 | background | background | background | 5 |
| ENSG00000183578.6 | 1.30436717 | background | background | background | 5 |
| ENSG00000183597.11 | 1.803422466 | background | background | background | 5 |
| ENSG00000183658.11 | -1.110572808 | background | background | background | 5 |
| ENSG00000183747.11 | 1.782251592 | background | background | background | 5 |
| ENSG00000183828.14 | 1.447395609 | background | background | background | 5 |
| ENSG00000183876.8 | -1.72001893 | background | background | background | 5 |
| ENSG00000183943.5 | -1.500186727 | background | background | background | 5 |
| ENSG00000184060.10 | 1.059475356 | background | background | background | 5 |
| ENSG00000184187.12 | 2.18391432 | background | background | background | 5 |
| ENSG00000184384.13 | -1.044853789 | background | background | background | 5 |
| ENSG00000184678.10 | -1.00810397 | background | background | background | 5 |
| ENSG00000184895.7 | -1.00810397 | background | background | background | 5 |
| ENSG00000184949.15 | -1.169991843 | background | background | background | 5 |
| ENSG00000184956.15 | 2.544938035 | background | background | background | 5 |
| ENSG00000185187.12 | 1.59918666 | background | background | background | 5 |
| ENSG00000185432.11 | 1.018309119 | background | background | background | 5 |
| ENSG00000185561.9 | 1.329947929 | background | background | background | 5 |
| ENSG00000185669.5 | 1.689459367 | background | background | background | 5 |
| ENSG00000185909.14 | 1.335869341 | background | background | background | 5 |
| ENSG00000185947.14 | -1.00810397 | background | background | background | 5 |
| ENSG00000186007.9 | -1.500186727 | background | background | background | 5 |
| ENSG00000186198.3 | 1.28007948 | background | background | background | 5 |
| ENSG00000186266.8 | 4.158470038 | background | background | background | 5 |
| ENSG00000186290.11 | -1.044853789 | background | background | background | 5 |
| ENSG00000186395.7 | 1.02391566 | background | background | background | 5 |
| ENSG00000186480.12 | -2.024973126 | background | background | background | 5 |
| ENSG00000186812.12 | -1.00810397 | background | background | background | 5 |
| ENSG00000186818.12 | -2.706135437 | background | background | background | 5 |
| ENSG00000186919.12 | 3.414610019 | background | background | background | 5 |
| ENSG00000186994.11 | 2.06588338 | background | background | background | 5 |
| ENSG00000187045.16 | 1.160208603 | background | background | background | 5 |
| ENSG00000187678.8 | -1.010782785 | NA | background | background | 5 |
| Gene ID       | Value    | noisy? | Background | Noisy Background |
|--------------|----------|--------|------------|------------------|
| ENSG00000187824.8 | 1.080914857 | background | background | 5 |
| ENSG00000188033.9 | -1.192667654 | background | background | 5 |
| ENSG00000188112.8 | -1.15158405 | background | NA | 4 |
| ENSG00000188257.10 | -1.53593441 | background | background | 5 |
| ENSG00000188290.10 | 1.223726567 | background | background | 4 |
| ENSG00000188760.10 | 1.195269479 | background | background | 4 |
| ENSG00000189127.7 | -4.200487064 | background | background | 5 |
| ENSG00000189144.13 | -1.188577722 | background | background | 5 |
| ENSG00000189233.11 | -1.00568193 | background | background | 5 |
| ENSG00000189334.8 | -1.025846307 | NA | background | 4 |
| ENSG00000196081.9 | -1.77820565 | background | background | 5 |
| ENSG00000196188.10 | -1.851136736 | background | background | 4 |
| ENSG00000196361.9 | 2.523746312 | background | background | 5 |
| ENSG00000196417.12 | -1.045524736 | background | background | 5 |
| ENSG00000196465.10 | 1.006590757 | background | background | 5 |
| ENSG00000196517.11 | 1.49375545 | background | background | 4 |
| ENSG00000196544.7 | 1.300071948 | NA | background | 3 |
| ENSG00000196562.14 | 1.163152433 | background | background | 4 |
| ENSG00000196604.12 | -1.417396585 | background | background | 5 |
| ENSG00000196660.10 | 1.591905187 | NA | background | 3 |
| ENSG00000196705.8 | -1.125070408 | background | background | 5 |
| ENSG00000196743.8 | 1.034630455 | NA | background | 4 |
| ENSG00000196782.12 | -1.64013541 | background | background | 4 |
| ENSG00000196967.10 | 1.138419139 | background | background | 4 |
| ENSG00000197019.4 | 1.030727459 | NA | background | 3 |
| ENSG00000197020.10 | -1.480816661 | background | background | 5 |
| ENSG00000197024.8 | -1.141715326 | background | background | 5 |
| ENSG00000197093.10 | 1.715699861 | background | background | 4 |
| ENSG00000197124.11 | 1.036564269 | background | background | 4 |
| ENSG00000197191.4 | 1.526994266 | NA | background | 3 |
| ENSG00000197239.11 | -1.016918882 | background | background | 5 |
| ENSG00000197410.12 | -3.562680371 | 5 | NA | 3 |
| ENSG00000197457.9 | 1.181078959 | background | background | 5 |
| ENSG00000197566.9 | -1.268153387 | background | background | 4 |
| ENSG00000197614.10 | -2.542108837 | background | background | 4 |
| ENSG00000197714.8 | -1.904290123 | background | background | 4 |
| ENSG00000197852.9 | 1.04386521 | NA | background | 4 |
| ENSG00000198053.11 | 1.228189308 | background | background | 5 |
| ENSG00000198133.8 | 1.418456641 | background | background | 5 |
| ENSG00000198203.9 | 2.112248406 | background | background | 4 |
| Gene ID          | Log2 Fold Change | Background | Background | Background | Background |
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| ENSGO0000198363.17 | -1.054817633     | background | background | background | background |
| ENSGO0000198417.6  | 1.55714827       | NA         | background | background | background |
| ENSGO0000198466.11 | -1.60947382      | background | background | background | background |
| ENSGO0000198535.5  | -2.002840567     | NA         | background | background | background |
| ENSGO0000198624.12 | 1.381607087      | background | background | background | background |
| ENSGO0000198756.10 | -1.32678911      | background | background | background | background |
| ENSGO0000198780.11 | -1.22784944      | background | background | background | background |
| ENSGO0000198848.12 | 1.516974356      | background | background | background | background |
| ENSGO0000198865.9  | 1.426973852      | background | background | background | background |
| ENSGO00001988870.7  | 1.93373087       | background | background | background | background |
| ENSGO0000198915.11 | -1.211849153     | background | background | background | background |
| ENSGO0000198959.11 | -1.51426305      | background | background | background | background |
| ENSGO00000204103.3 | 2.596399714      | NA         | background | background | background |
| ENSGO00000204152.6 | -1.27321932      | background | NA         | background | background |
| ENSGO00000204386.10 | 1.065802552     | background | background | background | background |
| ENSGO00000204524.6 | -1.209375179     | background | NA         | NA         | background |
| ENSGO00000204682.5  | 1.803228234      | NA         | background | background | background |
| ENSGO00000204978.2  | 1.955814453      | NA         | background | background | background |
| ENSGO00000205436.7  | 1.023116363      | background | background | background | background |
| ENSGO00000205669.2  | 6.440468705      | NA         | background | background | background |
| ENSGO00000205670.10 | 3.477674786      | background | background | background | background |
| ENSGO00000205863.10 | -2.890266825     | NA         | background | background | background |
| ENSGO00000206140.10 | 1.361047644      | background | background | background | background |
| ENSGO00000211452.10 | 1.462207285      | background | background | background | background |
| ENSGO00000213930.11 | 1.011243768      | background | background | background | background |
| ENSGO00000213999.15 | 1.390429416      | background | background | background | background |
| ENSGO00000214140.10 | 1.129547884      | NA         | background | background | background |
| ENSGO00000214456.8  | 2.112537423      | background | background | background | background |
| ENSGO00000214654.7  | -1.415502175      | NA         | background | background | background |
| ENSGO00000214904.4  | 1.172474726      | background | background | background | background |
| ENSGO00000214960.9  | 1.421260841      | background | NA         | background | background |
| ENSGO00000215790.6  | -1.04123712      | background | background | background | background |
| ENSGO00000218336.8  | -4.139557173      | background | background | background | background |
| ENSGO00000221883.2  | 1.110818934      | background | background | background | background |
| ENSGO00000221947.7  | 1.496666244      | background | background | background | background |
| ENSGO00000222186.6  | 1.371313972      | background | background | background | background |
| ENSGO00000222395.3  | 2.439750762      | background | background | background | background |
| ENSGO00000226174.6  | -4.003790185      | NA         | background | background | background |
| ENSGO00000226733.2  | 1.975840769      | NA         | background | background | background |
| ENSGO00000230453.9  | -2.280017286      | background | background | background | background |
| Gene ID          | Value         | Background | Background | Background | Background |
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| ENSG00000233198.3 | 1.303357519   | background | background | background | background |
| ENSG00000233276.3 | 1.307501458   | NA         | background | background | background |
| ENSG00000234616.8 | -1.063222555 | background | background | background | background |
| ENSG00000235098.8 | 1.320982307   | background | background | background | background |
| ENSG00000235109.7 | -1.015836131  | background | background | background | 5          |
| ENSG00000239713.8 | 1.016676384   | background | background | background | background |
| ENSG00000240038.6 | 1.282304666   | background | background | background | 4          |
| ENSG00000241635.7 | -1.285561034  | background | background | background | background |
| ENSG00000241945.7 | -1.61807085   | background | background | background | background |
| ENSG00000242715.7 | -1.063400937  | background | background | background | 4          |
| ENSG00000243910.7 | 2.481683841   | background | background | background | 5          |
| ENSG00000243955.5 | 2.351737045   | background | background | background | 5          |
| ENSG0000024462.7 | -1.08137427   | NA         | background | background | 5          |
| ENSG00000246922.8 | 1.293913484   | NA         | background | background | background |
| ENSG00000249319.2 | -1.864840281  | background | NA         | NA         | 5          |
| ENSG00000249624.8 | -4.160452128  | background | NA         | NA         | 5          |
| ENSG00000250565.6 | -1.070321076  | NA         | background | background | 5          |
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| ENSG00000254415.3 | 2.828267125   | background | background | background | 4          |
| ENSG00000254827.5 | 1.537399965   | NA         | background | background | background |
| ENSG00000255398.2 | 1.72683843    | NA         | background | background | background |
| ENSG00000255423.1 | -1.082402346  | NA         | background | background | background |
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| ENSG00000257767.2 | -5.815096238  | background | NA         | background | background |
| ENSG00000257921.5 | -2.971002593  | background | NA         | NA         | 5          |
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| ENSG00000259417.2 | 1.410408781   | background | background | background | 5          |
| ENSG00000260016.1 | 1.444530565   | background | background | background | background |
| ENSG00000261787.1 | 2.229982543   | background | background | background | 5          |
| ENSG00000262179.2 | 4.009205524   | NA         | background | background | background |
| ENSG00000262660.1 | 6.657163817   | background | background | background | 5          |
| ENSG00000266074.8 | -1.582513367  | background | background | background | background |
| ENSG00000266964.5 | 1.395541547   | background | background | background | background |
| ENSG00000267221.2 | 1.075042686   | background | background | background | background |
| ENSG00000267534.2 | 1.17813762    | NA         | background | background | 5          |
| ENSG00000268643.1 | -6.179412409  | background | background | NA         | 5          |
| ENSG00000268750.6 | -1.775108854  | background | background | NA         | 5          |
| ENSG00000269313.5 | 1.298226702   | background | NA         | background | background |
| Gene ID          | Value     | Background | NA | Background | Background |
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| ENSG00000269343.6 | -1.243020801 | background | NA | background | background |
| ENSG00000269699.5 | -1.368418024 | background | background | background | background |
| ENSG00000270136.5 | 2.033224239 | background | background | background | background |
| ENSG00000271824.1 | 2.517572833 | background | background | background | background |
| ENSG00000272196.2 | 1.701375153 | background | background | background | background |
| ENSG00000274276.4 | 1.002959677 | background | background | background | background |
| ENSG00000275183.1 | -1.062132425 | NA | background | background | background |
| ENSG00000275740.1 | 1.448106249 | NA | background | background | background |
| ENSG00000277639.2 | 1.758735332 | background | background | background | background |
| ENSG00000280433.1 | 3.841956517 | background | NA | background | background |
| ENSG00000281028.1 | -9.252898971 | background | background | background | background |
| ENSG00000281991.1 | 7.209418224 | NA | background | background | background |
| ENSG00000283297.1 | -3.679250431 | background | background | background | background |
| ENSG00000297675.3 | 1.257753945 | background | NA | background | background |
| ENSG00000300014.3 | 1.623982105 | background | background | background | background |
| ENSG000003096.14 | 1.429012265 | background | background | background | background |
| ENSG000003106.14 | 1.227251319 | background | background | background | background |
| ENSG000003680.13 | 3.034238676 | background | background | background | background |
| ENSG000005187.11 | 1.253982105 | background | background | background | background |
| ENSG000005981.12 | -1.79059757 | background | background | background | background |
| ENSG000006468.13 | 3.931148803 | background | background | background | background |
| ENSG000007437.21 | -1.128229582 | background | background | background | background |
| ENSG000008680.13 | 2.064232882 | background | background | background | background |
| ENSG000008735.13 | 2.148059914 | background | background | background | background |
| ENSG000009540.13 | 1.623982105 | background | background | background | background |
| ENSG0000103588.7 | 1.773256875 | background | background | background | background |
| ENSG000010849.20 | -1.14477626 | background | background | background | background |
| ENSG000015568.12 | -1.641649094 | background | background | background | background |
| ENSG000019102.11 | -1.165874756 | background | background | background | background |
| ENSG000019735.10 | 1.071489885 | background | background | background | background |
| ENSG000023909.9 | -1.043289679 | background | background | background | background |
| ENSG000024422.11 | -1.483078763 | background | background | background | background |
| ENSG000026025.15 | -1.171920727 | background | background | background | background |
| ENSG000031322.18 | 1.378818161 | background | background | background | background |
| ENSG000038427.15 | -1.161470334 | background | background | background | background |
| ENSG000039068.18 | 1.004237947 | background | background | background | background |
| ENSG000039537.13 | 1.317646228 | background | background | background | background |
| Gene ID          | Value         | Feature 1 | Feature 2 | Feature 3 | Feature 4 | Feature 5 |
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| ENSG00000043355.11 | -1.42421995   | background | background | background | background | 4         |
| ENSG00000048405.9  | -1.067899451  | background | background | background | 5         | 4         |
| ENSG00000049192.14 | -1.239736792  | background | background | background | 4         | 4         |
| ENSG00000052344.15 | 1.15694957    | background | background | background | 4         | 4         |
| ENSG00000052802.12 | 1.287264274   | background | background | background | 5         | 5         |
| ENSG00000054148.17 | 1.049368652   | background | background | background | 4         | 4         |
| ENSG00000054356.13 | -3.17304644   | background | background | background | 5         | 5         |
| ENSG00000054392.12 | 1.086573152   | background | background | background | 5         | 5         |
| ENSG00000054938.15 | 3.726703065   | background | background | background | 4         | 4         |
| ENSG00000055957.10 | 1.894213201   | background | background | background | 5         | 5         |
| ENSG00000060566.13 | 1.305953901   | background | background | background | 5         | 5         |
| ENSG00000064042.17 | -5.913448397  | background | background | background | 5         | 4         |
| ENSG00000064300.8  | -1.574635912  | background | background | background | 5         | 5         |
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| ENSG00000066056.13 | -1.784969727  | background | background | background | 5         | 5         |
| ENSG00000066813.14 | 1.77289645    | background | background | background | 5         | 5         |
| ENSG00000066923.17 | -1.070814104  | background | background | background | 5         | 4         |
| ENSG00000068650.18 | -1.284393333  | background | background | background | 4         | 4         |
| ENSG00000070404.9  | 1.031725786   | NA        | background | background | background | 5         |
| ENSG00000070669.16 | 1.282175727   | background | background | background | 4         | 4         |
| ENSG00000070915.9  | -1.915348961  | background | background | background | 5         | 5         |
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| ENSG00000072071.16 | -1.172698792  | background | background | background | 4         | 4         |
| ENSG00000072501.17 | -1.131202709  | 5         | background | background | 5         | 5         |
| ENSG00000073670.13 | 2.2652241     | 5         | background | background | 5         | 5         |
| ENSG00000074590.13 | -1.106825488  | background | background | background | 5         | 4         |
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| ENSG00000075461.5  | -1.563873849  | NA        | background | background | 4         | 4         |
| ENSG00000075886.10 | -2.113429253  | background | background | background | 4         | 4         |
| ENSG00000077585.13 | -1.86472508   | background | background | background | 4         | 4         |
| ENSG00000078401.6  | -1.814885497  | background | background | background | 4         | 4         |
| ENSG00000078804.12 | 1.882587548   | background | background | background | 5         | 5         |
| ENSG00000080603.16 | -1.344933522  | background | background | background | 5         | 5         |
| ENSG00000081051.7  | 1.093410433   | 5         | background | background | 4         | 4         |
| ENSG00000082258.12 | -1.002077931  | background | background | background | 5         | 5         |
| ENSG00000086696.10 | 2.20651427    | NA        | background | background | 4         | 4         |
| ENSG00000087076.8  | 2.503683777   | background | background | background | 5         | 5         |
| ENSG00000087116.14 | -1.042868098  | background | background | background | 5         | 5         |
| Gene ID   | Value   | Background | Background | Background | Background | Background | Background | Background | Background | Background | Background | Background | Background | Background | Background | Background |
|----------|---------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| ENSG00000087589.16 | -1.306435879 | background | background | background | background | 5          |            |            |            |            |            |            |            |            |            |
| ENSG00000089220.4   | 1.125741291   | background | background | background | background | 5          |            |            |            |            |            |            |            |            |            |
| ENSG00000090512.11  | 1.906376502   | background | background | background | background | 5          |            |            |            |            |            |            |            |            |            |
| ENSG00000091513.14  | 1.15157061    | background | background | background | background | 5          |            |            |            |            |            |            |            |            |            |
| ENSG00000092140.14  | -1.039547047  | background | background | background | background | 5          |            |            |            |            |            |            |            |            |            |
| ENSG00000092621.12  | 2.05152194    | background | background | background | background | 4          |            |            |            |            |            |            |            |            |            |
| ENSG00000095637.21  | -1.329397761  | background | NA         | NA         |背景         | 4          |            |            |            |            |            |            |            |            |            |
| ENSG00000095970.16  | 3.601843795   | background | background | background | background | 5          |            |            |            |            |            |            |            |            |            |
| ENSG00000096433.10  | -1.613820588  | background | background | background | background | 5          |            |            |            |            |            |            |            |            |            |
| ENSG00000099282.9   | -1.504089523  | NA         | background | background | background | 4          |            |            |            |            |            |            |            |            |            |
| ENSG00000099769.5   | 1.211634348   | NA         | background | background | background |            |            |            |            |            |            |            |            |            |            |
| ENSG00000099812.8   | -1.257387045  | background | background | background | background | 5          |            |            |            |            |            |            |            |            |            |
| ENSG00000099840.13  | 1.526547291   | background | background | background | background | 5          |            |            |            |            |            |            |            |            |            |
| ENSG00000099860.8   | 1.210614889   | background | background | background | background | 5          |            |            |            |            |            |            |            |            |            |
| ENSG00000099864.17  | 1.100796168   | background | background | background | background | 5          |            |            |            |            |            |            |            |            |            |
| ENSG00000099953.9   | 1.510039636   | background | background | background | background | 5          |            |            |            |            |            |            |            |            |            |
| ENSG00000100078.3   | 2.024432567   | background | background | background | background | 5          |            |            |            |            |            |            |            |            |            |
| ENSG00000100079.6   | 1.485628689   | background | background | background | background | 5          |            |            |            |            |            |            |            |            |            |
| ENSG00000100290.2   | -1.956503786  | background | background | background | background | 5          |            |            |            |            |            |            |            |            |            |
| ENSG00000100297.15  | -1.086231632  | background | background | background | background | 5          |            |            |            |            |            |            |            |            |            |
| ENSG00000100300.17  | -1.003145792  | background | background | background | background | 5          |            |            |            |            |            |            |            |            |            |
| ENSG00000100490.9   | 1.009690377   | background | background | background | background | 4          |            |            |            |            |            |            |            |            |            |
| ENSG00000100558.8   | 2.93614845    | background | background | background | background | 5          |            |            |            |            |            |            |            |            |            |
| ENSG00000100593.17  | -1.911705365  | background | background | background | background | 5          |            |            |            |            |            |            |            |            |            |
| ENSG00000100625.8   | -1.326848012  | background | background | background | background | 5          |            |            |            |            |            |            |            |            |            |
| ENSG0000010079.9    | 0.1083171576  | background | background | background | background | 5          |            |            |            |            |            |            |            |            |            |
| ENSG00000101049.14  | 1.336061144   | background | background | background | background | 4          |            |            |            |            |            |            |            |            |            |
| ENSG00000101180.15  | 2.901910406   | background | background | background | background | 5          |            |            |            |            |            |            |            |            |            |
| ENSG00000101188.4   | -1.497340699  | background | background | background | background | 4          |            |            |            |            |            |            |            |            |            |
| ENSG00000101197.12  | -1.071779329  | background | background | background | background | 4          |            |            |            |            |            |            |            |            |            |
| ENSG00000101210.10  | -1.081390291  | background | background | background | background | 4          |            |            |            |            |            |            |            |            |            |
| ENSG00000101333.16  | -4.529943356  | background | background | background | background | 4          |            |            |            |            |            |            |            |            |            |
| ENSG00000101384.11  | -1.214753748  | background | background | background | background | 5          |            |            |            |            |            |            |            |            |            |
| ENSG00000101443.17  | 3.78545889    | NA         | background | background | background | 5          |            |            |            |            |            |            |            |            |            |
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| ENSG00000101605.12  | 1.628430834   | 5          | background | background | background | 5          |            |            |            |            |            |            |            |            |            |
| ENSG00000101670.11  | 1.030895943   | background | background | background | background | 5          |            |            |            |            |            |            |            |            |            |
| ENSG00000101871.14  | -1.077342803  | background | background | background | background | 4          |            |            |            |            |            |            |            |            |            |
| ENSG00000102034.16  | -1.093832408  | background | background | background | background | 5          |            |            |            |            |            |            |            |            |            |
| ENSG00000102575.10  | 1.378477157   | background | background | background | background | 4          |            |            |            |            |            |            |            |            |            |
| Gene ID          | Value          | Type 1 | Type 2 | Type 3 | Type 4 |
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| ENSG00000102854.15 | -1.395928805   | background | background | background | background |
| ENSG00000102886.14 | 1.845838248    | background | background | background | background |
| ENSG00000102981.9 | 0.017244623    | background | background | background | background |
| ENSG00000103044.10 | -1.780629198   | NA     | background | background | background |
| ENSG00000103375.10 | 1.539107711    | background | background | background | background |
| ENSG00000103522.15 | 2.126040873    | background | background | background | background |
| ENSG00000103888.16 | -1.293227284   | background | background | background | background |
| ENSG00000104611.11 | -1.044057984   | 5      | background | background | background |
| ENSG00000105290.11 | 1.782768866    | background | background | background | background |
| ENSG00000105392.15 | 2.900263199    | background | background | background | background |
| ENSG00000105398.3 | 1.77964839     | background | background | background | background |
| ENSG00000105464.3 | -1.012258588   | background | background | background | background |
| ENSG00000105613.9 | 1.134838647    | background | background | background | background |
| ENSG00000105650.21 | 1.640133249    | background | background | background | background |
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| ENSG00000105732.12 | -1.093126111   | NA     | background | background | background |
| ENSG00000105808.13 | -1.337160211   | background | background | background | background |
| ENSG00000106003.12 | -1.329415508   | background | background | background | background |
| ENSG00000106333.12 | 1.061599097    | background | background | background | background |
| ENSG00000106384.10 | 1.183246195    | background | background | background | background |
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| ENSG00000106538.9 | 1.234458079    | background | background | background | background |
| ENSG00000106546.12 | -1.3519475     | background | background | background | background |
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| ENSG00000107796.13 | 1.485597783    | background | background | background | background |
| ENSG00000107984.9 | -1.340939324   | background | background | background | background |
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| ENSG00000109654.14 | -1.398496595   | background | background | background | background |
| ENSG00000110042.7 | 1.432811939    | background | background | background | background |
| ENSG00000110169.10 | 2.467015304    | background | background | background | background |
| ENSG00000110245.11 | 1.242977597    | background | background | background | background |
| ENSG00000110318.13 | 1.262911969    | 5      | background | background | background |
| ENSG00000110436.11 | 1.566069365    | background | background | background | background |
| ENSG00000110693.17 | -1.132834471   | 5      | background | background | background |
| ENSG00000110887.7 | 2.044268137    | background | background | background | background |
| Gene Symbol | Value 1 | Value 2 | Value 3 | Value 4 | Value 5 |
|-------------|---------|---------|---------|---------|---------|
| ENSG00000110921.13 | 1.101650083 | background | background | background | 4 |
| ENSG00000111181.12 | 2.06823206 | background | background | background | 5 |
| ENSG00000111335.12 | -1.591987107 | background | background | background | 5 |
| ENSG00000111344.11 | 2.77354114 | background | background | background | 5 |
| ENSG00000111700.12 | 1.93986399 | background | background | background | 4 |
| ENSG00000111716.12 | -1.139236753 | background | background | background | 4 |
| ENSG00000112183.14 | -1.511820709 | background | background | background | background |
| ENSG00000112186.11 | -1.199753074 | background | background | background | 4 |
| ENSG00000112818.9 | -1.28541981 | background | background | background | 4 |
| ENSG00000113083.13 | -1.290472435 | background | background | 5 | 5 |
| ENSG00000113356.11 | -1.011043181 | background | background | background | 5 |
| ENSG00000113721.13 | -1.0923414 | background | background | 5 | 5 |
| ENSG00000113889.11 | 1.975945066 | background | background | background | 4 |
| ENSG00000114115.9 | -1.272160728 | background | background | background | 5 |
| ENSG00000114786.16 | -1.011638152 | background | NA | NA | background |
| ENSG00000115009.11 | 1.27710641 | background | background | background | background |
| ENSG00000115129.13 | 1.345458278 | background | background | background | background |
| ENSG00000115194.10 | -1.16603377 | background | background | background | 5 |
| ENSG00000115318.11 | -1.575283236 | background | background | background | 3 |
| ENSG00000115457.9 | -1.03931456 | background | background | background | 4 |
| ENSG00000115641.18 | -1.016079554 | background | background | background | 4 |
| ENSG00000116039.11 | 1.685998191 | 5 | background | background | 5 |
| ENSG00000116062.14 | -1.108350163 | 4 | background | 5 | 4 |
| ENSG00000116128.10 | -1.036326327 | background | 5 | background | 5 |
| ENSG00000116194.12 | -1.069261944 | background | background | 5 | 5 |
| ENSG00000116299.16 | 2.257169697 | background | background | background | 4 |
| ENSG00000117281.15 | 2.277997089 | NA | background | 4 | 4 |
| ENSG00000117394.20 | -1.707186418 | background | background | 5 | 4 |
| ENSG00000117601.13 | 1.717739474 | background | background | background | background |
| ENSG00000118263.14 | -1.00781325 | background | background | 5 | 4 |
| ENSG00000118496.4 | -1.045154458 | background | background | background | 5 |
| ENSG00000118514.13 | 1.171889232 | background | background | background | 5 |
| ENSG00000118520.14 | 1.23565723 | background | background | background | 4 |
| ENSG00000118972.1 | 1.68203285 | background | background | 5 | 5 |
| ENSG00000119125.16 | -1.564530039 | background | background | background | 4 |
| ENSG00000119535.17 | 1.00762872 | background | background | background | background |
| ENSG00000119630.13 | 1.572228382 | background | background | background | 5 |
| ENSG00000119737.5 | -1.783529743 | NA | background | background | background |
| ENSG00000119782.13 | 1.310303878 | background | background | background | 5 |
| ENSG00000120093.11 | -5.073812049 | background | background | background | 4 |
| ENSG00000120129.5 | 1.148407056 | background | background | background | background |
| Gene          | Log2FoldChange | Background | PValue | Count |
|--------------|---------------|------------|--------|-------|
| ENSG00000120437.8 | 1.205633143   | background |        | 4     |
| ENSG00000120738.7 | 1.065352637   | NA         |        | 4     |
| ENSG00000120802.13 | -0.015706459  | background |        | 4     |
| ENSG00000120875.8 | -1.360403112  | background |        | 4     |
| ENSG00000120899.17 | 1.201196768   | S          |        | 5     |
| ENSG00000121075.9 | 2.02897597    | S          |        | 5     |
| ENSG00000121270.15 | 1.067428294   | NA         |        | 5     |
| ENSG00000121315.6 | 2.431295606   | background |        | 5     |
| ENSG000001213411.14 | -1.077638238   | background |        | 5     |
| ENSG000001213454.10 | 1.372222006    | background |        | 5     |
| ENSG000001213560.13 | -2.02604726    | background |        | 4     |
| ENSG000001213901.8 | 1.975189743   | background |        | 5     |
| ENSG000001214003.12 | 1.38843196     | background |        | 5     |
| ENSG00000121413.10 | -1.501464073    | background |        | 5     |
| ENSG000001214201.14 | -1.048519343    | background |        | 5     |
| ENSG000001214225.15 | 4.074650922     | background |        | 5     |
| ENSG000001214602.9 | -1.059637301    | background |        | 5     |
| ENSG000001214635.8 | 2.102992793    | NA         |        | 4     |
| ENSG000001214713.5 | 2.431295606     | background |        | 5     |
| ENSG000001214743.5 | -1.024432934     | background |        | 5     |
| ENSG000001214762.13 | 1.334443733     | NA         |        | 5     |
| ENSG000001214813.20 | -4.188285712     | background |        | 4     |
| ENSG000001215740.13 | 2.005063428     | NA         |        | 4     |
| ENSG000001216709.14 | -1.865541579     | NA         |        | 4     |
| ENSG000001216822.16 | -1.122840631     | background |        | 5     |
| ENSG000001217081.13 | -1.102174603     | background |        | 4     |
| ENSG000001217324.8 | -1.831037102     | background |        | 4     |
| ENSG000001217561.14 | 1.7202101203     | background |        | 5     |
| ENSG000001217578.6 | 1.325637669     | background |        | 4     |
| ENSG000001217743.5 | 1.44565602      | background |        | 5     |
| ENSG000001217824.13 | -1.579800335    | background |        | 4     |
| ENSG000001218011.4 | -1.697969035     | NA         |        | 4     |
| ENSG000001218165.8 | 1.481511512     | background |        | 5     |
| ENSG000001218272.14 | 1.00505873      | NA         |        | 4     |
| ENSG000001218346.10 | 1.286355339     | background |        | 5     |
| Gene ID       | Value          | Background | NA | 5  | 4  | 3  |
|--------------|----------------|------------|----|----|----|----|
| ENSG00000128886.11 | 1.006832616 | background | background | background | background | background |
| ENSG00000129167.9   | -1.002080426  | background | background | background | 5           | 5           |
| ENSG00000129214.14 | 2.335590648   | background | background | background | 5           | 5           |
| ENSG00000129354.11 | 1.27018962    | background | background | background | 5           | 5           |
| ENSG00000129355.6   | 1.110422196   | NA         | background | background | background | background |
| ENSG00000129596.4   | 1.448405989   | background | background | background | 4           | 4           |
| ENSG00000129646.14 | 1.601232157   | background | background | background | 5           | 5           |
| ENSG00000129951.18 | -3.230204355  | background | background | background | 4           | 4           |
| ENSG00000130032.15 | 2.441336032   | background | background | background | 5           | 5           |
| ENSG00000130203.9   | 1.20436285    | background | background | background | 5           | 5           |
| ENSG00000130283.8   | -7.113691652  | background | background | background | 5           | 5           |
| ENSG00000130427.2   | 1.540281062   | background | background | background | 5           | 5           |
| ENSG00000130477.15 | 1.235499153   | background | NA     | 4  | 4  | 3  |
| ENSG00000130487.5   | -2.235698669  | NA         | background | background | 5           | 5           |
| ENSG00000130513.6   | 1.085646574   | NA         | background | background | 5           | 5           |
| ENSG00000130522.5   | 1.03039434    | NA         | background | background | 5           | 5           |
| ENSG00000130707.17  | 1.352828044   | background | background | background | 5           | 5           |
| ENSG00000130749.9   | -1.303772256  | background | background | background | 5           | 5           |
| ENSG00000130856.15  | -2.113525657  | background | background | background | 4           | 4           |
| ENSG00000130876.11  | 2.154071658   | background | background | background | 4           | 4           |
| ENSG00000131069.19  | 1.921466154   | background | background | background | 4           | 4           |
| ENSG00000131233.9   | -2.643441545  | NA         | background | NA     | 5           | 5           |
| ENSG00000131386.17  | 1.584932321   | background | background | background | 4           | 4           |
| ENSG00000131746.12  | -1.444735363  | background | background | background | 4           | 4           |
| ENSG00000131969.14  | 2.866549098   | background | background | background | 4           | 4           |
| ENSG00000132031.12  | -1.763458018  | NA         | background | background | 5           | 5           |
| ENSG00000132517.14  | 1.710018946   | background | background | background | 4           | 4           |
| ENSG00000132563.15  | 1.543892947   | background | background | background | 4           | 4           |
| ENSG00000132854.18  | 1.49602041    | background | background | background | 4           | 4           |
| ENSG00000133048.12  | -4.001084116  | background | background | background | 4           | 4           |
| ENSG00000133106.14  | -4.92891311   | background | background | background | 4           | 4           |
| ENSG00000133124.11  | -1.636906668  | NA         | background | background | 4           | 4           |
| ENSG00000133169.5   | 1.567573855   | NA         | background | background | 5           | 5           |
| ENSG00000133816.13  | -1.327592293  | background | background | background | 4           | 4           |
| ENSG00000133863.7   | -1.290752816  | 5          | background | 3     | 3           | 3           |
| ENSG00000133935.6   | 1.213500234   | background | background | 5     | 5           | 5           |
| ENSG00000134321.11  | -2.789057894  | background | background | background | 5           | 5           |
| ENSG00000134323.11  | -1.701921066  | background | background | background | 5           | 5           |
| ENSG00000134588.12  | -3.79264689   | NA         | background | background | 4           | 4           |
| ENSG00000134762.16  | 2.140264266   | background | background | background | 4           | 4           |
| ENSG00000134802.17  | -1.944268217  | 4          | background | background | 4           | 4           |
| Gene ID          | Log2 Expression |
|------------------|-----------------|
| ENSG00000134962.6 | 1.185725174     |
| ENSG00000134987.11 | -1.222107016    |
| ENSG00000135074.15 | -1.197610698    |
| ENSG00000135090.13 | 1.00706063     |
| ENSG00000135116.9  | 4.661513148     |
| ENSG00000135119.14 | 1.513621431    |
| ENSG00000135253.13 | 1.337726107    |
| ENSG00000135423.12 | 1.029883341    |
| ENSG00000135439.11 | 1.389299023    |
| ENSG00000135549.10  | -4.530589777    |
| ENSG00000135638.13 | 1.927390739    |
| ENSG00000135643.4   | 2.054451081     |
| ENSG00000135924.15 | 1.021729041    |
| ENSG00000136011.14 | -1.623846095    |
| ENSG00000136197.12 | -1.080402861    |
| ENSG00000136237.18 | -1.086371544    |
| ENSG00000136490.8  | 1.010832737     |
| ENSG00000136689.18 | 1.01220025      |
| ENSG00000136717.14 | -1.174116353    |
| ENSG00000136881.11 | -2.156419581    |
| ENSG00000136960.12 | 3.99608852      |
| ENSG00000137031.17 | 1.246693444     |
| ENSG00000137103.17 | 2.094389194     |
| ENSG00000137525.23 | 1.322404479     |
| ENSG00000137834.14 | -1.174116353    |
| ENSG00000137857.17 | 2.192956996     |
| ENSG00000137869.14 | 1.865935342     |
| ENSG00000138119.16 | -1.083406561    |
| ENSG00000138347.15 | 5.373936302     |
| ENSG00000138376.10 | -1.04187987     |
| ENSG00000138411.10 | 2.408497777     |
| ENSG00000138678.10 | -1.029759061    |
| ENSG00000139219.17 | 1.906591121     |
| ENSG00000139266.5  | 1.100382924     |
| ENSG00000139269.2  | 1.934060848     |
| ENSG00000139401.14 | 1.642407007     |
| ENSG00000139433.9  | 1.025732978     |
| ENSG00000139618.14 | -1.132493143    |
| ENSG00000139914.6  | 1.18570558      |
| ENSG00000139988.9  | 1.386294012     |
| ENSG00000140044.12 | 1.738518809     |
| Gene ID       | Value     | Background | Background | 5 | 5 |
|--------------|-----------|------------|------------|---|---|
| ENSG00000140323.5 | 1.775456346 | background | background | 5 | 5 |
| ENSG00000140450.8  | -1.203472072 | background | background | 5 | 5 |
| ENSG00000140807.6  | -1.135414357 | background | background | 5 | 5 |
| ENSG00000140832.9  | 1.139518991  | background | background | 5 | 5 |
| ENSG00000140839.11 | 1.035919872  | background | background | 4 | 5 |
| ENSG00000141504.11 | 1.215709351  | background | background | 5 | 5 |
| ENSG00000141574.7  | 1.709264745  | background | background | 5 | 5 |
| ENSG00000141665.11 | 1.026974486  | background | background | 4 | 5 |
| ENSG0000014185.16  | 3.134431732  | 5 | background | 4 | 5 |
| ENSG0000014206.15  | 6.173306546  | 6 | background | 5 | 5 |
| ENSG00000143127.12 | -1.33657615  | 5 | background | 5 | 5 |
| ENSG00000143217.8  | 1.466973954  | 6 | background | 5 | 5 |
| ENSG00000143365.17 | -1.086550224 | 6 | background | 5 | 5 |
| ENSG00000143382.14 | 1.049659953  | 6 | background | 5 | 5 |
| ENSG00000143387.12 | 1.041670135  | 6 | background | 5 | 5 |
| ENSG00000143421.9  | 1.161833981  | 6 | background | 5 | 5 |
| ENSG00000143476.17 | -1.13044852   | 6 | background | 5 | 5 |
| ENSG00000143797.11 | -2.233988559 | 6 | background | 5 | 5 |
| ENSG00000143845.14 | 1.15479347   | 6 | background | 5 | 5 |
| ENSG00000144214.9  | 1.676323927  | 6 | background | 5 | 5 |
| ENSG00000144452.14 | 3.177756921  | 6 | background | 5 | 5 |
| ENSG00000144596.12 | 2.630459685  | 6 | background | 5 | 5 |
| ENSG00000144834.13 | 2.431745776  | 6 | background | 5 | 5 |
| ENSG00000144891.17 | 1.19898318   | 6 | background | 5 | 5 |
| ENSG00000145246.13 | 1.049174694  | 6 | background | 5 | 5 |
| ENSG00000145287.10 | -1.289398158 | 6 | background | 5 | 5 |
| ENSG00000145416.13 | -1.046286395 | 6 | background | 5 | 5 |
| ENSG00000145692.14 | 2.445626105  | 6 | background | 5 | 5 |
| ENSG00000145832.12 | 3.12277415   | 6 | background | 5 | 5 |
| ENSG00000145975.14 | -5.263168661 | 6 | background | 5 | 5 |
| ENSG00000146755.10 | 2.598047219  | 6 | background | 5 | 5 |
| ENSG00000146757.13 | -1.207359596 | 6 | background | 5 | 5 |
| ENSG00000146839.18 | 1.78222102   | 6 | background | 5 | 5 |
| ENSG00000146904.8  | 1.016811239  | 6 | background | 5 | 5 |
| ENSG00000147155.10 | 1.040562702  | 6 | background | 5 | 5 |
| ENSG00000147400.8  | 1.140649234  | 6 | background | 5 | 5 |
| ENSG00000147408.14 | -1.424244328 | 6 | background | 5 | 5 |
| ENSG00000147465.11 | 2.61254707  | 6 | background | 5 | 5 |
| ENSG00000147852.15 | 1.218855247  | 6 | background | 5 | 5 |
| Gene ID          | Log2 Fold Change | Significance    | p-value | ARS 1   | ARS 2   |
|-----------------|-----------------|----------------|---------|---------|---------|
| ENSG00000148344.10 | 3.395496928     | background     | background | 5       |         |
| ENSG00000148655.14 | 1.82772976      | 5              | background | background | 3       |
| ENSG00000148798.10 | 1.098171344     | background     | background | background | 5       |
| ENSG00000148926.9 | 1.524745287     | background     | background | background |         |
| ENSG00000148965.9 | 2.073283408     | background     | background | background | background |
| ENSG00000149124.10 | 1.228032789     | background     | background | background | 4       |
| ENSG00000149212.11 | -1.02552368     | background     | background | background | 4       |
| ENSG00000149403.12 | 1.073076298     | background     | background | background | 4       |
| ENSG00000149428.18 | -1.065100071    | background     | background | background |         |
| ENSG00000149503.12 | -1.05740505     | background     | background | background | 5       |
| ENSG00000149735.6 | 1.216936546     | background     | background | background | background |
| ENSG00000149742.9 | 1.30362115      | background     | background | background | 4       |
| ENSG00000149809.14 | 1.681777702     | background     | background | background | 4       |
| ENSG00000149968.11 | 1.87264268      | background     | background | background | 4       |
| ENSG00000150347.14 | -1.233442486    | 5              | background | 5       | 4       |
| ENSG00000150687.11 | -1.113440488    | NA             | background | 4       | 3       |
| ENSG00000150977.10 | 1.119687406     | background     | background | 4       | 4       |
| ENSG00000151150.21 | -1.600735601    | background     | background | background | 4       |
| ENSG00000151623.14 | 1.952877893     | 5              | background | background | 4       |
| ENSG00000151726.13 | 1.243631315     | background     | background | background | 4       |
| ENSG00000152193.7  | -1.356670001    | 5              | background | 5       | 4       |
| ENSG00000152315.4  | 1.689077231     | NA             | background | 4       |         |
| ENSG00000153029.14 | 1.814227941     | NA             | background | 4       |         |
| ENSG00000153253.16 | 3.754909492     | background     | background | 5       | 4       |
| ENSG00000153292.15 | 1.144501887     | background     | background | 5       | 4       |
| ENSG00000153789.12 | 2.013467059     | background     | background | 4       |         |
| ENSG00000153902.13 | 1.812862815     | 5              | background | 5       |         |
| ENSG00000154040.20 | 1.181745529     | 4              | background | 4       | 4       |
| ENSG00000154734.14 | -2.555910703    | background     | background | background | background |
| ENSG00000154930.14 | 1.05918815      | background     | background | background | 4       |
| ENSG00000155428.12 | 1.428239173     | NA             | background | background |         |
| ENSG00000155980.11 | -1.274674747    | 5              | background | 5       |         |
| ENSG00000156096.13 | 1.579601551     | 5              | background | 5       |         |
| ENSG00000156103.15 | -3.808171065    | 5              | background | 5       | 3       |
| ENSG00000156959.8  | 5.268662337     | background     | background | 5       | 4       |
| ENSG00000156966.6  | -1.487231983    | NA             | background | 5       | 5       |
| ENSG00000157087.17 | 1.408503525     | background     | background | 5       | 4       |
| ENSG00000157510.13 | 1.301408455     | background     | background | background | 4       |
| ENSG00000157680.15 | -4.187403507    | NA             | background | 4       |         |
| ENSG00000157873.17 | 1.358825752     | background     | background | background | background |
| ENSG00000157999.5  | -2.094716777    | NA             | NA       |         | 5       |
| Gene ID          | Log2FoldChange | Background | Background | Background | Background |
|-----------------|---------------|-----------|-----------|-----------|-----------|
| ENSG00000158125.9 | -3.469880685  | background| background| background| background|
| ENSG00000158571.10 | 1.050734363   | background| background| background| background|
| ENSG00000158806.13 | 1.437973037    | background| background| background| background|
| ENSG00000158815.10 | 1.442253401    | background| background| background| background|
| ENSG00000158859.9 | -1.367426468   | background| background| background| background|
| ENSG00000158865.12 | -1.50000615    | background| background| background| background|
| ENSG00000158877.15 | -1.639230396   | background| background| background| background|
| ENSG00000159164.9 | 1.030903261    | background| background| background| background|
| ENSG00000159403.11 | 1.919376879    | background| background| background| background|
| ENSG00000160062.14 | -1.049202791   | background| background| background| background|
| ENSG00000160183.13 | 1.432117043    | background| background| background| background|
| ENSG00000160223.16 | 1.067897967    | background| background| background| background|
| ENSG00000160285.14 | 1.043844896    | background| background| background| background|
| ENSG00000160323.18 | 1.294252098    | background| background| background| background|
| ENSG00000160326.13 | 1.355413347    | background| background| background| background|
| ENSG00000160870.12 | 1.498815596    | background| background| background| background|
| ENSG00000160932.10 | -1.021583912   | background| background| background| background|
| ENSG00000161544.9 | 2.042939601    | background| background| background| background|
| ENSG00000161682.14 | -1.068611906   | background| background| background| background|
| ENSG00000161835.10 | 1.566263535    | background| background| background| background|
| ENSG00000161896.11 | 3.746135605    | background| background| background| background|
| ENSG00000162241.12 | 1.419631249    | background| background| background| background|
| ENSG00000162510.5 | -3.518289836   | background| background| background| background|
| ENSG00000162512.15 | -1.00368284    | background| background| background| background|
| ENSG00000162543.5 | -2.074903288   | background| background| background| background|
| ENSG00000162654.8 | 1.309990895    | background| background| background| background|
| ENSG00000162817.6 | 1.395922684    | background| background| background| background|
| ENSG00000162924.13 | -1.183915415   | background| background| background| background|
| ENSG00000162946.21 | -1.124623114   | background| background| background| background|
| ENSG00000163093.11 | -1.05457935    | background| background| background| background|
| ENSG00000163121.9 | 1.664287243    | background| background| background| background|
| ENSG00000163406.10 | 1.041588243    | background| background| background| background|
| ENSG00000163430.11 | -2.082016595   | background| background| background| background|
| ENSG00000163453.11 | -1.247918573   | background| background| background| background|
| ENSG00000163491.16 | 1.00463537     | background| background| background| background|
| ENSG00000163577.7 | -1.185176459   | background| background| background| background|
| ENSG00000163584.17 | -1.035090338   | background| background| background| background|
| ENSG00000163803.12 | -1.937706092   | background| background| background| background|
| ENSG00000163803.12 | -1.937706092   | background| background| background| background|
| ENSG00000163898.9 | -2.044132228   | background| background| background| background|
| ENSG00000163959.9 | 1.75240732     | background| background| background| background|
| Gene ID          | Value       | Marker 1 | Marker 2 | Marker 3 | Marker 4 | Number |
|-----------------|-------------|----------|----------|----------|----------|--------|
| ENSG00000163975.11 | 1.10020578  | background | background | background | background | 5      |
| ENSG00000163993.6 | 1.28345132  | NA       | background | background | background | 5      |
| ENSG00000164142.15 | 1.46581717 | background | background | background | background | 4      |
| ENSG00000164171.10 | -1.253005809 | background | background | background | 5        | 5      |
| ENSG00000164362.18 | -1.447320702 | background | background | background | 5        | 5      |
| ENSG00000164483.16 | -1.324413598 | background | background | background | 4        | 4      |
| ENSG00000164512.17 | 1.168767205  | 5         | background | background | 5        | 5      |
| ENSG00000164604.12 | 1.93395976  | background | background | background | 4        | 4      |
| ENSG00000164649.19 | -1.08396195 | background | background | background | 5        | 5      |
| ENSG00000164684.13 | -1.322956968 | background | background | background | 5        | 5      |
| ENSG00000164713.9 | 1.01868569  | background | background | background | 4        | 4      |
| ENSG00000164742.14 | 1.340575255 | background | background | background | 5        | 3      |
| ENSG00000164849.9 | -1.58431895 | NA       | background | background | 5        | 5      |
| ENSG00000164932.12 | -1.051930172 | background | background | background | 5        | 5      |
| ENSG00000164938.13 | 1.319575924 | background | background | background | 5        | 5      |
| ENSG00000164946.19 | -1.04748999 | 5         | background | NA        | 4        | 4      |
| ENSG00000165028.11 | 1.518712374 | background | background | background | 5        | 5      |
| ENSG00000165272.14 | 1.28550378  | background | background | background | 5        | 5      |
| ENSG00000165376.10 | -1.02710128 | NA       | background | background | 5        | 4      |
| ENSG00000165471.6 | -1.373684403 | background | background | background | 5        | 4      |
| ENSG00000165671.19 | -2.072679064 | 4         | background | background | 5        | 4      |
| ENSG00000165828.14 | 1.029761416 | background | background | background | 5        | 5      |
| ENSG00000165861.13 | 1.052515651  | 5         | 5         | background | 5        | 5      |
| ENSG00000165949.12 | -4.864122648 | background | background | background | 4        | 4      |
| ENSG00000166126.10 | 1.464847301 | background | background | background | 5        | 5      |
| ENSG00000166147.13 | 1.07449978  | background | background | background | 4        | 4      |
| ENSG00000166257.8 | 1.747092529  | 5         | background | background | 5        | 5      |
| ENSG00000166401.14 | 1.319184288 | background | background | background | 5        | 5      |
| ENSG00000166405.14 | 1.257224332 | background | background | background | 4        | 4      |
| ENSG00000166415.14 | 1.085375682 | background | background | background | 4        | 4      |
| ENSG00000166503.8 | -2.007237577 | background | background | background | 5        | 5      |
| ENSG00000166510.13 | -1.339719793 | background | background | background | 3        | 3      |
| ENSG00000166592.11 | 1.134442478 | background | background | background | 4        | 4      |
| ENSG00000166743.9 | 1.628149358 | background | background | background | 4        | 4      |
| ENSG00000166816.13 | 1.229974475 | background | background | background | 5        | 5      |
| ENSG00000166819.11 | 1.61599292 | background | background | background | 5        | 5      |
| ENSG00000167244.18 | 1.718759824 | background | background | background | 5        | 5      |
| ENSG00000167378.8 | 1.140837703 | background | background | background | 5        | 5      |
| ENSG00000167508.11 | 1.186727239 | background | background | background | 5        | 5      |
| ENSG00000167578.17 | 1.033286638 | background | background | background | 5        | 5      |
| ENSG00000167600.13 | -1.795573898 | background | background | background | 5        | 5      |
| ENSG00000167601.11 | -1.238059933 | background | background | background | 5 |
|-------------------|----------------|------------|------------|------------|---|
| ENSG00000167625.10 | -1.114170708 | background | background | background | background |
| ENSG00000167701.13 | 1.015766588 | background | background | background | background |
| ENSG00000167741.10 | 1.330739822 | background | background | background | background |
| ENSG00000167755.14 | -2.368938222 | background | background | background | 5 |
| ENSG00000167772.11 | 1.345315826 | background | background | background | background |
| ENSG00000167920.8 | 1.219350481 | background | background | background | background |
| ENSG00000167964.12 | 1.582065001 | background | background | background | 5 |
| ENSG00000168077.13 | 1.268327155 | NA | background | background | 5 |
| ENSG00000168172.8 | -1.222681069 | 5 | background | background | 4 |
| ENSG00000168386.18 | -1.513564004 | 4 | background | background | 3 |
| ENSG00000168502.17 | -1.412903973 | background | background | background | 4 |
| ENSG00000168646.12 | -1.180397774 | 5 | background | background | 5 |
| ENSG00000168806.7 | -1.277574493 | NA | background | 5 | 5 |
| ENSG00000168813.16 | -1.31576644 | background | background | 5 | 5 |
| ENSG00000168874.12 | -1.415702557 | NA | background | background | 5 |
| ENSG00000169174.10 | 1.172985829 | background | background | background | 4 |
| ENSG00000169247.11 | -2.22064012 | background | background | background | 4 |
| ENSG00000169385.2 | 2.63240785 | background | background | background | background |
| ENSG00000169403.11 | -1.29805828 | NA | background | background | 5 |
| ENSG00000169507.9 | -1.03660055 | background | background | background | 4 |
| ENSG00000169629.11 | -1.072855339 | 5 | background | background | 5 |
| ENSG00000169752.16 | 1.408806382 | background | background | 2 | 2 |
| ENSG00000169856.8 | 1.053291359 | NA | background | background | 4 |
| ENSG00000169985.9 | 4.040870439 | background | background | background | background |
| ENSG00000170099.5 | 1.67412055 | 5 | background | background | 5 |
| ENSG00000170271.10 | 1.126208703 | background | background | 5 | 4 |
| ENSG00000170324.20 | 2.693472701 | background | background | 5 | background | 5 |
| ENSG00000170345.9 | 3.452167313 | NA | background | background | background |
| ENSG00000170396.7 | -1.533644463 | background | background | background | 4 |
| ENSG00000170458.13 | 1.035800956 | NA | background | background | 4 |
| ENSG00000170509.5 | 3.71816609 | background | background | background | 4 |
| ENSG00000170835.14 | 1.742870089 | background | background | background | 4 |
| ENSG00000170989.8 | 2.78960668 | NA | background | background | 5 |
| ENSG00000171502.14 | -1.732287551 | 4 | background | background | 5 | 4 |
| ENSG00000171564.11 | 1.644247984 | background | background | background | background |
| ENSG00000171766.15 | -1.429255536 | background | background | background | 5 |
| ENSG00000171791.12 | -1.310103087 | background | background | background | 4 |
| ENSG00000171877.20 | -1.039787878 | background | background | background | 5 | 4 |
| ENSG00000171992.12 | -1.079919049 | background | background | background | 4 |
| Gene Accession | Log2 Fold Change | Log2FoldChange | Background | Background |
|----------------|-----------------|---------------|------------|------------|
| ENSG00000178163.7 | -3.594965886 | 5 | background | 5 |
| ENSG00000178295.14 | -1.01853303 | background | background | background |
| ENSG00000178297.12 | 1.24212284 | NA | background | 5 |
| ENSG00000178502.5 | -1.317661 | NA | background | background |
| ENSG00000178537.9 | 1.553043875 | background | background | 5 |
| ENSG00000178573.6 | 1.619166058 | NA | background | 5 |
| ENSG00000178809.7 | 1.539844992 | NA | background | background |
| ENSG00000178921.13 | -1.01012704 | background | background | 5 |
| ENSG00000179454.13 | -1.109188646 | background | background | 4 |
| ENSG00000179761.11 | 1.027861513 | background | background | 4 |
| ENSG00000179913.10 | -1.329722021 | background | background | 5 |
| ENSG00000180061.9 | 2.000795769 | background | background | 5 |
| ENSG00000180263.13 | -1.528107139 | 4 | background | 5 |
| ENSG00000180532.10 | 1.47688096 | background | background | 5 |
| ENSG00000180535.3 | -1.331146082 | NA | background | background |
| ENSG00000180596.7 | 1.009289818 | NA | background | background |
| ENSG00000180644.7 | -1.827975082 | NA | background | 5 |
| ENSG00000180855.15 | -1.966895436 | background | background | background |
| ENSG00000180938.5 | -1.129239956 | NA | background | 5 |
| ENSG00000180953.11 | 1.329014826 | background | background | background |
| ENSG00000181418.7 | -1.323108082 | NA | background | 5 |
| ENSG00000182141.10 | -1.655686817 | background | background | background |
| ENSG00000182162.10 | 1.068096343 | NA | background | background |
| ENSG00000182326.14 | 1.913999794 | background | background | 5 |
| ENSG00000182459.4 | -1.27858265 | NA | background | background |
| ENSG00000182472.8 | 1.183817505 | background | background | 5 |
| ENSG00000182676.4 | 1.136462675 | background | background | background |
| ENSG00000182700.4 | 1.085111548 | NA | background | background |
| ENSG00000183072.9 | 1.561368429 | NA | background | 5 |
| ENSG00000183087.14 | 1.743908247 | background | background | 3 |
| ENSG00000183134.4 | 1.265396799 | NA | background | background |
| ENSG00000183401.11 | 1.12152467 | background | background | 5 |
| ENSG00000183578.6 | 1.248159509 | NA | background | 5 |
| ENSG00000183747.11 | 1.712552431 | background | background | 5 |
| ENSG00000183826.16 | 2.046742884 | background | background | 4 |
| ENSG00000183828.14 | 1.339124608 | background | background | background |
| ENSG00000183876.8 | -1.427801451 | NA | background | background |
| ENSG00000184060.10 | -1.656167866 | background | background | 5 |
| ENSG00000184384.13 | -1.079579065 | background | 5 | background |
| ENSG00000184454.6 | 1.132722841 | background | background | 4 |
| Gene ID               | Log2 Fold Change | Symbol  | Background |
|----------------------|------------------|---------|------------|
| ENSG00000184678.10   | 1.690985215      | NA      | background |
| ENSG00000184828.9    | -3.376866088     | NA      | background |
| ENSG00000185187.12   | 1.772607434      | NA      | background |
| ENSG00000185432.11   | 1.477509521      | NA      | background |
| ENSG00000185561.9    | -3.271712434     | NA      | background |
| ENSG00000185633.10   | -1.200825682     | NA      | background |
| ENSG000001855669.5   | 2.006444734      | NA      | background |
| ENSG000001855885.15  | -2.649071236     | NA      | background |
| ENSG000001855909.14  | 1.272655143      | NA      | background |
| ENSG00000185947.14   | -1.200825682     | NA      | background |
| ENSG000001859889.10  | -1.989367516     | NA      | background |
| ENSG00000186007.9    | -1.676506888     | NA      | background |
| ENSG00000186198.3    | 1.217358598      | NA      | background |
| ENSG00000186280.6    | -1.014141326     | NA      | background |
| ENSG00000186300.11   | -1.038578113     | NA      | background |
| ENSG00000186471.12   | 1.602487026      | NA      | background |
| ENSG00000186480.12   | -1.585100318     | NA      | background |
| ENSG00000186523.14   | -1.056704261     | NA      | background |
| ENSG00000186642.15   | -1.99166089      | NA      | background |
| ENSG00000186919.12   | 3.13090155       | NA      | background |
| ENSG00000186994.11   | 2.108687425      | NA      | background |
| ENSG00000187045.16   | 1.183495941      | NA      | background |
| ENSG00000187066.8    | -1.206692448     | NA      | background |
| ENSG00000187726.8    | 1.558234788      | NA      | background |
| ENSG00000187800.13   | -1.042345498     | NA      | background |
| ENSG00000187808.4    | 1.084726841      | NA      | background |
| ENSG00000188112.8    | -1.138851261     | NA      | background |
| ENSG00000188257.10   | -1.22296797      | NA      | background |
| ENSG00000188290.10   | 1.299603863      | NA      | background |
| ENSG00000188629.11   | 2.862122899      | NA      | background |
| ENSG00000190233.12   | -1.089746387     | NA      | background |
| ENSG00000190420.9    | 1.821109676      | NA      | background |
| ENSG0000019417.12    | -1.080244445     | NA      | background |
| ENSG00000196517.11   | 1.593286029      | NA      | background |
| ENSG00000196544.7    | 1.261631178      | NA      | background |
| ENSG00000196562.14   | 1.143929617      | 5       | background |
| ENSG00000196604.12   | -1.501426784     | 5       | background |
| Symbol                  | Value  | Symbol                  | Value  | Symbol                  | Value  |
|------------------------|--------|------------------------|--------|------------------------|--------|
| ENSG00000196660.10     | 1.49253927 | ENSG00000196663.15    | -1.112689217 | ENSG00000197019.4     | 1.035008077 |
| ENSG00000197020.10     | -1.22016289 | ENSG00000197024.8     | -1.172343267 | ENSG00000197093.10    | 2.193123266 |
| ENSG00000197124.11     | 1.135703865 | ENSG00000197191.4     | 1.431245463 | ENSG00000197321.14    | -1.036733771 |
| ENSG00000197329.11     | -1.005242985 | ENSG00000197461.13    | 1.244978628 | ENSG00000197566.9     | -1.05308368 |
| ENSG00000197714.8      | -1.348670084 | ENSG00000197852.9     | 1.099242516 | ENSG00000197943.9     | -2.601466271 |
| ENSG00000198053.11     | 1.169567377 | ENSG00000198133.8     | 1.395934568 | ENSG00000198203.9     | 1.969803463 |
| ENSG00000198342.5      | -1.107415741 | ENSG00000198363.17    | -1.066732635 | ENSG00000198417.6     | 1.564038692 |
| ENSG00000198466.11     | -1.46934135 | ENSG00000198535.5     | -1.395546029 | ENSG00000198624.12    | 1.315290213 |
| ENSG00000198756.10     | -1.206998667 | ENSG00000198780.11    | -1.265635135 | ENSG00000198838.13    | -1.375249334 |
| ENSG00000198848.12     | 1.562330163 | ENSG00000198865.9     | 1.220317086 | ENSG00000198870.7     | 1.921824446 |
| ENSG00000204103.3      | 2.485046652 | ENSG00000204152.6     | -1.685103525 | ENSG00000204386.10    | 1.042331013 |
| ENSG00000204682.5      | 1.794951201 | ENSG00000204978.2     | 1.865196048 | ENSG00000205669.2     | 5.997612018 |
| ENSG00000205670.10     | 3.103960786 | ENSG00000206140.10    | 1.02907663 | ENSG00000205670.10    | 3.103960786 |
| ENSG00000211452.10     | 1.299157212 |
| Gene ID       | Log2 Fold Change | Annotation | Background | Annotation | Background | Annotation |
|--------------|-----------------|------------|------------|------------|------------|------------|
| ENSG00000213886.3 | 1.007115942     | NA         | background | background | 5          |
| ENSG00000213999.15 | 1.507934347     | background | background | background | 5          |
| ENSG00000214140.10 | 1.427931485     | NA         | background | background | 5          |
| ENSG00000214456.8 | 1.91646633      | background | background | background | 5          |
| ENSG00000214654.7 | -1.580980695    | NA         | background | background | 5          |
| ENSG00000214960.9 | 1.327980414     | background | NA         | background | 4          |
| ENSG00000215695.1 | -1.319117897    | NA         | NA         | background | 4          |
| ENSG00000221890.3 | 1.069285415     | background | background | background | 5          |
| ENSG00000221986.6 | 1.365978639     | background | background | background | 5          |
| ENSG00000223572.9 | -1.807924664    | background | background | background | 4          |
| ENSG00000223953.5 | 2.464039711     | background | background | background | 5          |
| ENSG00000226321.5 | 2.079413716     | background | background | background | 5          |
| ENSG00000226733.2 | 1.856349349     | NA         | background | background | 4          |
| ENSG00000228198.3 | 1.214506378     | NA         | background | background | 5          |
| ENSG00000231852.6 | 1.149114166     | background | background | background | 5          |
| ENSG000002323376.3 | 1.15371026      | NA         | background | background | 4          |
| ENSG00000235909.8 | 1.277364818     | background | background | background | 5          |
| ENSG00000240038.6 | 1.72783922      | background | background | background | 5          |
| ENSG00000241945.7 | -2.147209256    | background | background | background | 5          |
| ENSG00000242220.6 | 1.502835545     | background | background | 5          | 5          |
| ENSG00000243910.7 | 2.454183731     | background | background | background | 5          |
| ENSG00000243955.5 | 2.144571834     | background | background | background | 5          |
| ENSG00000244067.2 | 1.848857915     | background | background | background | 5          |
| ENSG00000244462.7 | -1.238376294    | NA         | background | background | 5          |
| ENSG00000246922.8 | 1.43115925      | NA         | background | background | 5          |
| ENSG00000249624.8 | -6.754603565    | background | NA         | NA         | 4          |
| ENSG00000250264.1 | -1.144618501    | background | background | NA         | 5          |
| ENSG00000251201.8 | -1.647046416    | background | background | background | 5          |
| ENSG00000251569.1 | -1.878855617    | background | background | background | 5          |
| ENSG00000254402.6 | 1.339104568     | background | background | background | 5          |
| ENSG00000254827.5 | 1.402610998     | NA         | background | background | 4          |
| ENSG00000255071.3 | 2.102428989     | background | background | background | 5          |
| ENSG000002553398.2 | 2.056262616     | NA         | background | background | 5          |
| ENSG00000256771.3 | -1.055466511    | background | background | background | 5          |
| ENSG00000259030.6 | -2.998745999    | 5          | background | NA         | 3          |
| ENSG00000259417.2 | 1.581915886     | background | background | background | 5          |
| ENSG00000260001.6 | 1.506083393     | background | background | background | 5          |
| ENSG00000266964.5 | 1.394928511     | background | background | background | 4          |
| ENSG00000267534.2 | 1.266566805     | NA         | background | background | 4          |
| ENSG00000268643.1 | -6.051303471    | background | background | NA         | background |
| Gene ID     | Log2 Fold Change | Adj. P Value | Background | Expression | Count |
|------------|-----------------|-------------|------------|------------|-------|
| ENSG00000268750.6 | -1.475457864 | background | background | NA         | 5     |
| ENSG00000269343.6 | -1.330368669 | background | background | NA         | 5     |
| ENSG00000269547.1 |  2.221261885 | background | NA         | background | 4     |
| ENSG00000269699.5 | -1.390767457 | background | background | background | 4     |
| ENSG00000271824.1 |  2.566991948 | NA         | background | background | 5     |
| ENSG00000272196.2 |  1.783019349 | NA         | background | background | 5     |
| ENSG00000275183.1 | -1.14670581  | NA         | background | background | 4     |
| ENSG00000275470.1 | -1.728636907 | background | background | background | 5     |
| ENSG00000275832.4 | -1.646607721 | background | background | background | 4     |
| ENSG00000278558.4 |  1.167465539 | background | NA         | background | 4     |
| ENSG00000278828.1 |  1.25730074  | NA         | background | background | 4     |
| ENSG00000280433.1 |  4.099116381 | background | NA         | background | 5     |
| ENSG00000280987.4 | -1.056814722 |  4         | background | background | 4     |
| ENSG00000281028.1 | -9.12510602  | background | background | background | 4     |
| ENSG00000281991.1 |  6.99780452  | NA         | background | background | 5     |
| ENSG00000003096.14|  1.43441659  | background | background | background | 5     |
| ENSG00000003137.8 | -2.10969889  | NA         | background | background | 4     |
| ENSG00000003987.13| -1.137387544 | background | background | background | 5     |
| ENSG00000004700.15| -1.076299884 | background | background | background | 5     |
| ENSG00000004809.13|  1.124704888 | background | background | background | 5     |
| ENSG00000005187.11|  1.936004333 | background | background | background | 5     |
| ENSG00000005981.12| -1.929374285 | background | background | background | 5     |
| ENSG00000007372.21| -1.854259694 | background | background | background | 5     |
| ENSG00000008735.13|  1.967180707 | background | background | background | 5     |
| ENSG00000009765.14|  3.544860628 | background | background | background | 5     |
| ENSG00000009950.15|  1.205860268 | background | background | background | 4     |
| ENSG00000010704.18| -1.168468493 | NA         | background | background | 4     |
| ENSG00000012504.13|  1.393332695 | background | background | background | 3     |
| ENSG00000013588.7 | -1.631905148 | background | background | background | 4     |
| ENSG00000015568.12| -1.71056377  | background | background | background | 4     |
| ENSG00000023839.10| -1.032831942 | background | background | background | 4     |
| ENSG00000023909.9 | -1.210426206 | background | background | background | 5     |
| ENSG00000026025.15| -1.656248694 | background | background | background | 5     |
| ENSG00000033122.18| -1.577531397 |  5         | background | background | 4     |
| ENSG00000038427.15| -1.032193812 | background | background | background | 4     |
| ENSG00000039068.18|  1.182513985 | background | background | background | 5     |
| ENSG00000039123.15| -1.005752284 | background | background | background | 4     |
| ENSG00000039537.13|  1.539021818 | background | background | background | 5     |
| ENSG00000043355.11| -1.261305191 | background | background | background | 4     |
| ENSG00000048405.9 | -1.162753374 |  5         | background | background | 4     |
| ENSG00000049192.14| -1.236842098 | background | background | background | 4     |
| Gene ID | Log2 Ratio | Background |
|---------|------------|------------|
| ENSG00000049283.17 | 1.215035329 | background |
| ENSG00000052344.15 | 1.288691291 | background |
| ENSG00000052802.12 | 1.212663842 | background |
| ENSG00000054148.17 | 1.028830898 | background |
| ENSG00000054392.12 | 1.013427453 | background |
| ENSG00000054938.15 | 4.066180732 | background |
| ENSG00000054983.16 | 2.450502837 | background |
| ENSG00000055163.19 | 1.191511754 | background |
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| ENSG00000081665.13 | 1.041489887 | background |
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| ENSG00000083844.10 | -1.140888448 | background |
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| Gene ID          | Value       | CD4 | CD8 | CD19 | CD20 |
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| ENSG00000086696.10 | 2.190052285 | NA  | NA  | background | background |
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| ENSG00000092140.14 | -1.106924778 | background | background | background | background |
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| ENSG00000092621.12 | 1.077844329 | background | background | background | background |
| ENSG00000094804.9 | 1.306516604 | background | background | background | background |
| ENSG00000095464.9 | 1.115110331 | NA  | NA  | background | background |
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| ENSG00000099337.4 | 1.267428962 | 5 | background | background | background |
| ENSG00000099679.5 | 1.202103867 | NA  | NA  | background | background |
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| ENSG00000106976.20 | -3.105736726 | background | background | background | background |
| ENSG00000107159.12 | -1.793257651 | background | background | background | 5 |
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| ENSG00000129214.14 | 2.38926822    | background | background | background | 5 |
| ENSG00000129354.11 | 1.202346925   | 4          | background | background | 4 |
| ENSG00000129355.6  | 1.105605055   | NA         | background | background | 5 |
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| ENSG00000131845.14 | -1.021720548  | background | background | background | 5 |
| ENSG00000132031.12 | -1.654812965  | NA         | background | background | 5 |
| ENSG00000132207.17 | 1.661704027   | background | background | background | 5 |
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| ENSG00000136383.6 | -2.359385988 | 5 | background | background |
| ENSG00000136689.18 | 1.057140183 | background | background | background |
| ENSG00000136717.14 | -1.575585421 | background | background | background |
| ENSG00000136731.12 | -1.025969595 | 5 | background | background |
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| ENSG00000136960.12 | 1.316519508 | background | background | background |
| ENSG00000137103.17 | 1.218198099 | background | background | background |
| ENSG00000137731.13 | 1.937307098 | background | background | background |
| ENSG00000137752.23 | 1.203344815 | background | background | background |
| ENSG00000137770.13 | -1.034769787 | 5 | background | background |
| ENSG00000137801.10 | -1.063559499 | background | background | background |
| ENSG00000137834.14 | -1.187073071 | NA | background | background |
| ENSG00000137857.17 | 2.723784965 | 5 | background | background |
| ENSG00000137869.14 | 1.592157111 | background | background | background |
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| ENSG00000138376.10 | -1.211509438 | 5 | background | background |
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| ENSG00000139219.17 | 2.279129042 | 5 | background | background |
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| ENSG00000146757.13 | -1.215937079  | background   | background    | background   | 5             |
| ENSG00000146839.18 | 1.77370928    | background   | background    | background   | 4             |
| ENSG00000147408.14 | -1.33975187   | background   | background    | 5            | 4             |
| ENSG00000147465.11 | 2.613441745   | background   | background    | background   | background    |
| ENSG00000147650.11 | -1.009493387  | background   | background    | background   | 4             |
| ENSG00000147804.9  | 1.121371827   | background   | background    | background   | 5             |
| ENSG00000147852.15 | 1.158506589   | background   | background    | 5            | 4             |
| ENSG00000148180.19 | 1.036879357   | background   | background    | background   | 4             |
| ENSG00000148344.10 | 3.627496183   | background   | background    | background   | background    |
| ENSG00000148346.11 | -3.248934304  | background   | background    | background   | background    |
| ENSG00000148346.11 | -3.248934304  | background   | background    | background   | background    |
| ENSG00000148700.14 | -1.018225354  | background   | background    | background   | 4             |
| ENSG00000148926.9  | 1.569741159   | background   | background    | background   | background    |
| ENSG00000148965.9  | 2.013203956   | background   | background    | background   | background    |
| ENSG00000149124.10 | 1.347472872   | background   | background    | background   | 4             |
| ENSG00000149289.10 | -1.057228581  | 5            | background    | background   | 4             |
| ENSG00000149292.16 | -1.106393928  | background   | background    | background   | 4             |
| ENSG00000149328.14 | -1.457193649  | background   | background    | background   | 5             |
| ENSG00000149403.12 | 2.922890311   | background   | background    | background   | 4             |
| ENSG00000149503.12 | -1.060935026  | background   | background    | background   | 4             |
| ENSG00000149679.11 | 1.019624671   | background   | background    | 5            | 5             |
| ENSG00000149735.6  | 1.084637914   | background   | background    | background   | background    |
| ENSG00000149742.9  | 1.38116234    | background   | background    | background   | 4             |
| ENSG00000149809.14 | 1.791324951   | background   | background    | 5            | 5             |
| ENSG00000149968.11 | 1.838545047   | background   | background    | background   | background    |
| ENSG00000150347.14 | -1.193251028  | background   | background    | background   | 5             |
| ENSG00000150656.14 | 2.805622017   | background   | background    | background   | 5             |
| ENSG00000150687.11 | -1.248805927  | NA           | background    | background   | 4             |
| ENSG00000150977.10 | 1.008084804   | background   | background    | background   | 5             |
| ENSG00000151640.12 | 1.050885283   | background   | background    | background   | 5             |
| ENSG00000151726.13 | 1.211327235   | background   | background    | background   | 5             |
| Genomic ID       | Log2 Fold Change | Annotation       | Score 1 | Score 2 | Score 3 |
|------------------|------------------|------------------|---------|---------|---------|
| ENSG00000152193.7| -1.498860234     | background       | 2       |         |         |
| ENSG00000152315.4| 2.278995422      | NA               | 5       | 5       |         |
| ENSG00000153029.14| 1.648800591     | background       | 5       |         |         |
| ENSG00000153253.16| 3.64816648      | 5 background     | 5       | 4       |         |
| ENSG00000153789.12| 2.518242754     | background       |         |         |         |
| ENSG00000153902.13| 2.073516771     | background       |         |         |         |
| ENSG00000154040.20| 1.409014241     | background       |         |         |         |
| ENSG00000154734.14| -2.139582279    | 5 background     | 5       | 5       |         |
| ENSG00000154930.14| 1.14433397      | 5 background     | 4       |         |         |
| ENSG00000155100.10| -1.061138901    | 4 background     | 4       |         |         |
| ENSG00000155428.12| 1.499192405     | NA               | 3       |         |         |
| ENSG00000156096.13| 1.408077111     | background       | 5       |         |         |
| ENSG00000156172.5| -1.043225204    | background       | 5       | 5       |         |
| ENSG00000156959.8| 5.381084745     | background       | 5       |         |         |
| ENSG00000156966.6| -1.65367488     | background       |         |         |         |
| ENSG00000157087.17| 1.08961862      | background       | 4       |         |         |
| ENSG00000157335.20| 1.54062354      | background       | 5       |         |         |
| ENSG00000157680.15| -4.334885655    | background       | 4       |         |         |
| ENSG00000157873.17| 1.472910567     | background       |         |         |         |
| ENSG00000157999.5| -2.330020326    | background       | 5       |         |         |
| ENSG00000158125.9| -3.359778232    | background       | 5       |         |         |
| ENSG00000158246.7| -1.284528367    | NA               |         |         |         |
| ENSG00000158806.13| 1.226835099     | background       |         |         |         |
| ENSG00000158815.10| 1.78363777      | background       |         |         |         |
| ENSG00000158859.9| -1.380810978    | background       | 5       | 5       |         |
| ENSG00000158865.12| -1.22159525     | background       | 5       |         |         |
| ENSG00000158887.15| -1.474046405    | background       | 5       | 5       |         |
| ENSG00000159164.9| 1.01245169      | background       | 5       |         |         |
| ENSG00000159403.11| 1.935987548     | background       | 5       |         |         |
| ENSG00000160183.13| 1.607862621     | background       | 5       |         |         |
| ENSG00000160223.16| 1.118801166     | background       | 5       | 5       |         |
| ENSG00000160285.14| 1.221218616     | background       |         |         |         |
| ENSG00000160323.18| 1.771455988     | background       | 5       |         |         |
| ENSG00000160326.13| 1.497929204     | background       |         |         |         |
| ENSG00000160472.4| 2.789379451     | background       |         |         |         |
| ENSG00000160870.12| 1.558551094     | background       |         |         |         |
| ENSG00000160932.10| -1.005898567    | background       |         |         |         |
| ENSG00000161544.9| 1.875847104     | background       | 5       |         |         |
| ENSG00000161835.10| 1.255441135     | background       | 5       |         |         |
| ENSG00000161986.11| 3.218476101     | background       | 5       |         |         |
| ENSG00000162194.12| 1.156756258     | background       | 4       | 4       |         |
| Chromosome | Interval | Log2 Fold Change | Annotation | Tag         | Background | score | target | best_target | best_score | rank |
|------------|----------|------------------|------------|-------------|------------|-------|--------|-------------|------------|------|
| ENSG00000162241.12 | 73 | 1.326861526 | background | background | background | background | background | background | background | 5
| ENSG00000162512.15 | 73 | -1.519526485 | background | background | background | background | background | background | background | 5
| ENSG00000162543.5 | 73 | -2.687643243 | NA | background | background | background | background | background | background | 5
| ENSG00000162733.16 | 73 | -1.433079716 | background | background | background | background | background | background | background | 4
| ENSG00000162817.6 | 73 | 1.446215696 | NA | background | background | background | background | background | background | 5
| ENSG00000163083.5 | 73 | -1.005827968 | background | background | background | background | background | background | background | 5
| ENSG00000163093.11 | 73 | -1.25729997 | background | background | background | background | background | background | background | 5
| ENSG00000163121.9 | 73 | 1.55365499 | NA | background | background | background | background | background | background | 5
| ENSG00000163406.10 | 73 | 1.284089286 | 5 | background | background | background | background | background | background | 5
| ENSG00000163453.11 | 73 | -1.335306325 | background | background | background | background | background | background | background | 5
| ENSG00000163577.7 | 73 | -1.392153204 | 5 | background | background | background | background | background | background | 5
| ENSG00000163803.12 | 73 | -1.127578892 | background | background | background | background | background | background | background | 4
| ENSG00000163803.12 | 73 | -1.127578892 | background | background | background | background | background | background | background | 4
| ENSG00000163959.9 | 73 | 1.923830707 | background | background | background | background | background | background | background | 4
| ENSG00000163993.6 | 73 | 1.116504762 | NA | background | background | background | background | background | background | 4
| ENSG00000164171.10 | 73 | -1.150427352 | background | background | background | background | background | background | background | 5
| ENSG00000164483.16 | 73 | -1.472695342 | background | background | background | background | background | background | background | 4
| ENSG00000164512.17 | 73 | 1.007319521 | background | background | background | background | background | background | background | 4
| ENSG00000164684.13 | 73 | -1.15360394 | 5 | background | background | background | background | background | background | 4
| ENSG00000164713.9 | 73 | 1.071251182 | background | background | background | background | background | background | background | 5
| ENSG00000164756.12 | 73 | 3.16462631 | background | NA | 5 | background | background | background | background | 4
| ENSG00000164849.9 | 73 | -1.382560095 | NA | background | background | background | background | background | background | 5
| ENSG00000164932.12 | 73 | -1.282288107 | background | background | background | background | background | background | background | 5
| ENSG00000164938.13 | 73 | 1.337328917 | background | background | background | background | background | background | background | 5
| ENSG00000165028.11 | 73 | 1.523496412 | background | background | background | background | background | background | background | 5
| ENSG00000165272.14 | 73 | 1.180377426 | background | background | background | background | background | background | background | 5
| ENSG00000165449.11 | 73 | 1.194130424 | background | background | background | background | background | background | background | 4
| ENSG00000165471.6 | 73 | -1.411859406 | NA | background | background | background | background | background | background | 5
| ENSG00000165757.8 | 73 | 1.408742529 | background | background | background | background | background | background | background | 5
| ENSG00000165861.13 | 73 | 1.220513417 | background | background | background | background | background | background | background | 5
| ENSG00000165949.12 | 73 | -5.10328217 | background | background | background | background | background | background | background | 5
| ENSG00000165953.9 | 73 | 1.189735802 | background | background | background | background | background | background | background | 4
| ENSG00000166126.10 | 73 | 1.488606629 | background | background | background | background | background | background | background | 4
| ENSG00000166147.13 | 73 | 1.04168676 | background | background | background | background | background | background | background | 5
| ENSG00000166181.12 | 73 | -0.010395991 | 5 | background | background | background | background | background | background | 5
| ENSG00000166311.9 | 73 | 1.122740919 | background | background | background | background | background | background | background | 5
| ENSG00000166401.14 | 73 | 1.01257793 | background | background | background | background | background | background | background | 5
| ENSG00000166405.14 | 73 | 1.577342515 | background | background | background | background | background | background | background | 5
| ENSG00000166503.8 | 73 | -1.90314831 | background | background | background | background | background | background | background | 5
| Gene ID       | Value       | Background 1 | Background 2 | Background 3 | Background 4 | Background 5 |
|--------------|-------------|--------------|--------------|--------------|--------------|--------------|
| ENSG00000166510.13 | -1.445487001 | background | background | background | background | 5            |
| ENSG00000166743.9 | 1.763978005  | background | background | background | background | 5            |
| ENSG00000166750.9 | -1.35805194  | background | background | background | background | 4            |
| ENSG00000166816.13 | 1.43843735   | background | background | background | background | 5            |
| ENSG00000166819.11 | 1.597248939  | background | background | background | background | 5            |
| ENSG00000166869.2 | 1.11738402   | background | background | background | background | 5            |
| ENSG00000166912.16 | -1.024012202 | background | background | background | background | 5            |
| ENSG00000167107.12 | 1.06502529   | background | background | background | background | 4            |
| ENSG00000167244.18 | 1.866281681  | background | background | background | background | 5            |
| ENSG00000167371.17 | 1.368182333  | background | background | background | background | 5            |
| ENSG00000167378.8 | 1.32080538   | background | background | background | background | 5            |
| ENSG00000167508.11 | 1.29344726   | background | background | background | background | 5            |
| ENSG00000167578.17 | 1.096103276  | background | background | background | background | 5            |
| ENSG00000167600.13 | -2.284497446 | background | background | background | background | 5            |
| ENSG00000167601.11 | -1.31036485  | background | background | background | background | 5            |
| ENSG00000167701.13 | 1.231190897  | background | background | background | background | 5            |
| ENSG00000167741.10 | 1.270778667  | background | background | background | background | 5            |
| ENSG00000167755.14 | -2.211218415 | background | background | background | background | 5            |
| ENSG00000167767.13 | -1.595838024 | background | background | background | background | 5            |
| ENSG00000167772.11 | 1.421070454  | background | background | background | background | 5            |
| ENSG00000167791.11 | 2.167666613  | background | background | background | background | 5            |
| ENSG00000167920.8 | 1.208654544  | background | background | background | background | 5            |
| ENSG00000167964.12 | 1.680795758  | background | background | background | background | 5            |
| ENSG00000168077.13 | 1.27076269   | background | background | background | background | 5            |
| ENSG00000168386.18 | -1.690489875 | background | background | background | background | 4            |
| ENSG00000168502.17 | -1.442199938 | background | background | background | background | 4            |
| ENSG00000168646.12 | -1.209357331 | background | background | background | background | 5            |
| ENSG00000168806.7 | -1.500316223 | NA          | background | background | background | 5            |
| ENSG00000168813.16 | -1.079770174 | background | background | background | background | 5            |
| ENSG00000168874.12 | -1.356673978 | NA          | background | background | background | 5            |
| ENSG00000169026.12 | 1.472395774  | background | background | background | background | 5            |
| ENSG00000169085.11 | 2.328561552  | background | background | background | background | 5            |
| ENSG00000169174.10 | 1.260208334  | background | background | background | background | 5            |
| ENSG00000169246.16 | 1.039788113  | background | background | background | background | 5            |
| ENSG00000169247.11 | -1.992545931 | background | background | background | background | 5            |
| ENSG00000169429.10 | -1.065590525 | background | background | background | background | 4            |
| ENSG00000169507.9 | -1.384647836 | background | background | background | background | 4            |
| ENSG00000169629.11 | -1.051255161 | background | background | background | background | 4            |
| ENSG00000169679.14 | -1.210718008 | background | background | background | background | 5            |
| ENSG00000169752.16 | 1.492332969  | background | background | background | background | 4            |
| ENSG00000169885.9 | 4.347745648  | background | background | background | background | 5            |
| GeneID         | Value     | Rank | Background | Background | Background |
|---------------|-----------|------|------------|------------|------------|
| ENSG00000169926.10 | 1.020703417 | NA   | background | background | background |
| ENSG00000170099.5   | 1.597722677 | background | background | background | background |
| ENSG00000170271.10 | 1.16280785  | background | background | background | background |
| ENSG00000170324.20 | 2.314128063 | background | background | background | background |
| ENSG00000170345.9   | 3.538321165 | NA   | background | background | background |
| ENSG00000170396.7   | -1.134663847 | background | background | background | background |
| ENSG00000170422.8   | 3.440560933 | background | background | background | background |
| ENSG00000170437.6   | -1.134663847 | background | background | background | background |
| ENSG00000170456.11  | 3.36758744  | NA   | background | background | background |
| ENSG00000170474.5   | 2.803234854 | background | background | background | background |
| ENSG00000170514.11  | -1.071477511 | background | background | background | background |
| ENSG00000170529.14  | -2.117892045 | background | background | background | background |
| ENSG00000170574.5   | 1.468756662 | background | background | background | background |
| ENSG00000170617.15  | -1.296784426 | background | background | background | background |
| ENSG00000170634.5   | -1.052608534 | background | background | background | background |
| ENSG00000170654.7   | -1.263010257 | background | background | background | background |
| ENSG00000170667.20  | -1.204256325 | background | background | background | background |
| ENSG00000170688.20  | 2.226021881 | background | background | background | background |
| ENSG00000170706.15  | -1.151855506 | background | background | background | background |
| ENSG00000170727.17  | 1.762793011 | background | background | background | background |
| ENSG00000170742.4   | 2.02206601  | background | background | background | background |
| ENSG00000170766.9   | 1.611366749 | NA   | background | background | background |
| ENSG00000170782.9   | 1.362256059 | background | background | background | background |
| ENSG00000170802.11  | 1.110075443 | background | background | background | background |
| ENSG00000170820.15  | 1.636332691 | background | background | background | background |
| ENSG00000170845.10  | 4.048030758 | background | background | background | background |
| ENSG00000170865.3   | 1.090921666 | NA   | background | background | background |
| ENSG00000170880.4   | -1.169904676 | background | background | background | background |
| ENSG00000170900.5   | -1.02875382 | background | background | background | background |
| ENSG00000170920.7   | 2.66007627 | NA   | background | background | background |
| ENSG00000170940.11  | 1.44903538  | background | background | background | background |
| ENSG00000170961.14  | -1.450969131 | background | background | background | background |
| ENSG00000170981.5   | 1.973334045 | background | background | background | background |
| ENSG00000171001.8   | 1.21305538  | background | background | background | background |
| ENSG00000171023.3   | 3.368633411 | NA   | background | background | background |
| ENSG00000171047.6   | 1.091429904 | background | background | background | background |
| ENSG00000171067.11  | 1.721822695 | NA   | background | background | background |
| ENSG00000171087.9   | 1.171155256 | NA   | background | background | background |
| ENSG00000171107.7   | 1.00641275  | background | background | background | background |
| ENSG00000171126.15  | -1.36138781 | background | background | background | background |
| Gene ID            | Log2 Fold Change | Annotation | Gene ID            | Log2 Fold Change | Annotation | Gene ID            | Log2 Fold Change | Annotation |
|-------------------|-----------------|------------|-------------------|-----------------|------------|-------------------|-----------------|------------|
| ENSG00000175305.17 | -1.574294039    | background | ENSG00000175505.10 | -1.086781268    | background | ENSG0000017538.10 | -2.125791245    | background |
|                   |                 | background |                   |                 | 5          |                   |                 | background |
| ENSG00000175785.12 | 1.08343155      | background | ENSG00000175938.6  | 1.436423033     | background | ENSG00000176046.8 | 3.622557457     | background |
|                   |                 | background |                   |                 | 5          |                   |                 | background |
| ENSG00000176406.22 | 2.885720949     | background | ENSG00000176428.5  | 1.270385423     | background | ENSG00000176714.9 | -1.11794018     | background |
|                   |                 | background |                   |                 | 5          |                   |                 | background |
| ENSG0000017614.9  | -1.10286994     | background | ENSG00000176887.6  | 2.363353293     | background | ENSG00000176907.4 | -2.018723816    | background |
|                   |                 | background |                   |                 | 5          |                   |                 | background |
| ENSG00000176920.11| -2.139085275    | background | ENSG00000177287.3  | -1.701463693    | background | ENSG00000178295.14 | -1.13068004     | background |
|                   |                 | background |                   |                 | 5          |                   |                 | background |
| ENSG00000178297.12| 1.377073076     | background | ENSG00000178502.5  | -1.49392435     | background | ENSG00000178537.9 | 1.596170172     | background |
|                   |                 | background |                   |                 | 5          |                   |                 | background |
| ENSG00000178573.6 | 1.812954946     | background | ENSG00000178809.7  | 1.688406594     | background | ENSG00000179862.6 | 1.06756893      | background |
|                   |                 | background |                   |                 | 3          |                   |                 | background |
| ENSG00000179913.10| -1.392212423    | background | ENSG00000180061.9  | 2.375681195     | background | ENSG00000180263.13| -1.299324399    | background |
|                   |                 | background |                   |                 | 5          |                   |                 | background |
| ENSG00000180855.15| -2.180748365    | background | ENSG00000180914.10 | 1.047134178     | background | ENSG00000180938.5 | -1.171875142    | background |
|                   |                 | background |                   |                 | 4          |                   |                 | background |
| ENSG00000180953.11| 1.48986757      | background | ENSG00000181418.7  | -1.056124811    | background | ENSG00000181625.17 | -1.182801791    | background |
|                   |                 | background |                   |                 | 5          |                   |                 | background |
| ENSG00000182141.10| -1.357596694    | background | ENSG00000182150.15 | -1.127692319    | background | ENSG00000182162.10| 1.256334704     | background |
|                   |                 | background |                   |                 | 4          |                   |                 | background |
| ENSG00000182162.10| 1.256334704     | background | ENSG00000182162.14 | 1.905963383     | background | ENSG00000182459.4 | -1.040528098    | background |
|                   |                 | background |                   |                 | 4          |                   |                 | background |
| ENSG00000182472.8 | 1.254316987     | background | ENSG00000182580.2  | 2.601051095     | background | ENSG00000182580.2 | 2.601051095     | background |
|                   |                 | background |                   |                 | 5          |                   |                 | background |
| Gene                     | Log2 Fold Change | Tumor | | |  
|-------------------------|-----------------|-------|---|---|
| ENSG00000182700.4       | 1.008735359     | NA    | background | background |
| ENSG00000183072.9       | 2.053509285     | NA    | background | background |
| ENSG00000183134.4       | 1.651411653     | NA    | background | background |
| ENSG00000183145.8       | -1.025724905    | background | background | background |
| ENSG00000183196.8       | 1.210454482     | NA    | background | background |
| ENSG00000183375.6       | 1.532906875     | 5     | background | background |
| ENSG00000183382.14      | 1.171429044     | NA    | background | background |
| ENSG000001834166.2      | 1.47588605      | NA    | NA      | background |
| ENSG00000183438.13      | -1.04461483     | 5     | background | background |
| ENSG00000183467.8.10    | 1.759845538     | NA    | background | background |
| ENSG00000183495.6.15    | 3.381973746     | background | background | background |
| ENSG000001835187.12     | 2.23797941      | background | background | background |
| ENSG00000183529.11      | 2.076413135     | background | background | background |
| ENSG00000183529.11      | 2.076413135     | background | background | background |
| ENSG00000183542.11      | 1.588033062     | NA    | background | background |
| ENSG00000183556.11      | 1.252777606     | 5     | background | background |
| ENSG00000183556.15      | 2.21565781      | background | background | background |
| ENSG00000183566.5       | 2.3583062       | NA    | background | background |
| ENSG00000183588.15      | -3.626625758    | NA    | background | background |
| ENSG00000183909.14      | 1.218197793     | NA    | background | background |
| ENSG00000183947.14      | -1.461762197    | background | background | background |
| ENSG00000184372.19      | 2.157272777     | 5     | background | background |
| ENSG00000184680.12      | -1.448331758    | background | background | background |
| ENSG0000018462.15       | -2.702696177    | background | background | background |
| ENSG00000184648.14      | 1.735788438     | background | background | background |
| ENSG00000184907.7       | 1.078051226     | background | background | background |
| ENSG00000184919.12      | 3.278787553     | background | background | background |
| ENSG00000184994.11      | 2.132952495     | background | background | background |
| ENSG00000186045.16      | 1.804502527     | background | background | background |
| ENSG00000186026.12      | 1.175568127     | background | background | background |
| ENSG00000188070.9       | -1.004216731    | NA    | background | background |
| ENSG00000188112.8       | -1.107344157    | NA    | background | background |
| ENSG00000188176.11      | -1.66358785     | background | background | background |
| ENSG00000188257.10      | -1.324099582    | background | background | background |
| ENSG00000188290.10      | 1.223549132     | background | background | background |
| Gene ID          | Expression | Background | Background | Background | Background |
|-----------------|------------|------------|------------|------------|------------|
| ENSG00000188305.5 | 1.222907984 | background | background | background | 5          |
| ENSG00000188611.14 | -1.447142667 | background | NA         | 5          | 5          |
| ENSG00000188760.10 | 1.090009279 | background | background | background | 5          |
| ENSG00000188869.12 | 1.05275687  | background | background | background | 5          |
| ENSG00000189144.13 | -2.019002359 | background | background | background | 4          |
| ENSG00000189233.11 | -1.309393141 | background | 5          | 5          |
| ENSG00000196081.9  | -1.80323108  | background | background | background | 5          |
| ENSG00000196188.10 | -1.754090053 | background | background | background | 5          |
| ENSG00000196361.9  | 2.561556078  | background | background | background | 5          |
| ENSG00000196391.10 | 1.142010525  | background | background | background | 5          |
| ENSG00000196417.12 | -1.015727857 | background | background | background | 5          |
| ENSG00000196517.11 | 1.532476788  | background | background | background | 5          |
| ENSG00000196544.7  | 1.289624007  | NA         | background | background | background |
| ENSG00000196562.14 | 1.142983618  | background | background | background | 4          |
| ENSG00000196604.12 | -1.029914793 | 5          | background | 5          | 5          |
| ENSG00000196660.10 | 1.567229523  | NA         | background | background | 4          |
| ENSG00000196705.8  | -1.049426156 | background | background | 5          | 5          |
| ENSG00000196724.12 | -5.13110764  | background | background | background | background |
| ENSG00000196972.8  | 1.858316978  | NA         | NA         | background | background |
| ENSG00000196981.3  | -1.036065086 | NA         | background | background | background |
| ENSG00000197020.10 | -1.183259521 | background | background | 5          |
| ENSG00000197044.10 | -1.138651929 | background | background | 5          |
| ENSG00000197093.10 | 1.789996943  | background | background | background |
| ENSG00000197191.4  | 1.352186106  | NA         | background | background | background |
| ENSG00000197329.11 | -1.134773184 | 5          | 5          | background | 5          |
| ENSG00000197714.8  | -1.903164788 | background | background | background |
| ENSG00000197837.3  | -1.405413514 | NA         | background | background |
| ENSG00000198053.11 | 1.318941564  | background | background | background | 5          |
| ENSG00000198064.13 | 1.422603199  | background | background | background |
| ENSG00000198133.8  | 1.379040098  | background | background | background | 5          |
| ENSG00000198203.9  | 1.765085555  | background | background | 5          | 5          |
| ENSG00000198298.12 | -1.611064879 | background | background | background | 4          |
| ENSG00000198342.5  | -1.187207399 | 5          | background | 5          |
| ENSG00000198363.17 | -1.076444372 | background | background | background | 4          |
| ENSG00000198417.6  | 1.394576673  | NA         | background | background |
| ENSG00000198466.11 | -1.239200535 | background | background | 5          |
| ENSG00000198513.11 | 1.469996204  | 5          | background | 5          |
| ENSG00000198535.5  | -1.744370967 | NA         | background | background |
| ENSG00000198569.9  | 1.012230311  | background | background | background |
| ENSG00000198624.12 | 1.342279039  | background | background | 4          |
| ENSG00000198756.10 | -1.111603697 | background | background | 5          |
| #  | gene_id                 | log2FoldChange | adjustPValue | group1 | group2 | group3 | group4 | group5 |
|----|-------------------------|----------------|--------------|--------|--------|--------|--------|--------|
| 73 | ENSG00000198780.11      | -1.278170054   | background   | background | background | background | background | 5      |
| 73 | ENSG00000198797.6       | -3.14536241    | background   | background | background | background | background | 4      |
| 73 | ENSG00000198826.10      | -1.003459977   | background   | background | background | background | background | 5      |
| 73 | ENSG00000198848.12      | 1.537088935    | background   | background | background | background | background | 5      |
| 73 | ENSG00000198865.9       | 1.182622618    | background   | background | background | background | background | 4      |
| 73 | ENSG00000198870.7       | 2.320838297    | background   | background | background | background | background | 5      |
| 73 | ENSG00000198959.11      | -1.379576957   | background   | background | background | background | background | 4      |
| 73 | ENSG00000204103.3       | 2.460719917    | NA           | background | background | background | background | 5      |
| 73 | ENSG00000204152.6       | -1.560498546   | background   | NA        | background | background | background | 4      |
| 73 | ENSG00000204385.10      | 1.026398166    | background   | background | background | background | background | 5      |
| 73 | ENSG00000204386.10      | 1.079064609    | background   | background | background | background | background | 5      |
| 73 | ENSG00000204524.6       | -1.044967374   | background   | background | background | background | background | 4      |
| 73 | ENSG00000204682.5       | 1.747920434    | NA           | background | background | background | background | 5      |
| 73 | ENSG00000204695.4       | 1.799098543    | background   | background | background | background | background | 5      |
| 73 | ENSG00000205212.3       | -1.058991851   | background   | background | background | background | background | 3      |
| 73 | ENSG00000205436.7       | 1.30113631     | background   | background | background | background | background | 4      |
| 73 | ENSG00000205670.10      | 3.629729287    | background   | background | background | background | background | 4      |
| 73 | ENSG00000205923.3       | 1.307121272    | background   | background | background | background | background | 5      |
| 73 | ENSG00000206535.7       | -1.059575754   | background   | background | background | background | background | 5      |
| 73 | ENSG00000211452.10      | 1.209498212    | background   | background | background | background | background | 5      |
| 73 | ENSG00000213413.2       | -1.739595609   | background   | background | background | background | background | 5      |
| 73 | ENSG00000213420.7       | 1.617859534    | background   | background | background | background | background | 4      |
| 73 | ENSG00000213999.15      | 2.014651833    | background   | background | background | background | background | 4      |
| 73 | ENSG00000214140.10      | 1.41535149     | NA           | background | background | background | background | 4      |
| 73 | ENSG00000214456.8       | 2.123319321    | 5            | background | background | background | background | 5      |
| 73 | ENSG00000214654.7       | -1.542459929   | NA           | background | background | background | background | 5      |
| 73 | ENSG00000214960.9       | 1.684268559    | background   | NA        | background | background | background | 3      |
| 73 | ENSG00000215695.1       | -1.385639526   | NA           | NA        | background | background | background | 5      |
| 73 | ENSG00000221890.3       | 1.258485336    | background   | background | background | background | background | 5      |
| 73 | ENSG00000221932.6       | 1.024444862    | 5            | background | background | background | background | 5      |
| 73 | ENSG00000221986.6       | 1.866230785    | background   | background | background | background | background | 5      |
| 73 | ENSG00000223953.5       | 2.094161997    | background   | background | background | background | background | 5      |
| 73 | ENSG00000226321.5       | 2.055081692    | background   | background | background | background | background | 5      |
| 73 | ENSG00000226733.2       | 1.642836051    | NA           | background | background | background | background | 5      |
| 73 | ENSG00000228198.3       | 1.37901109     | NA           | background | background | background | background | 5      |
| 73 | ENSG00000231852.6       | 1.238663973    | background   | background | background | background | background | 5      |
| 73 | ENSG00000233024.3       | 1.024555377    | background   | background | background | background | background | 5      |
| 73 | ENSG00000233198.3       | 1.691227284    | background   | background | background | background | background | 5      |
| 73 | ENSG00000233276.3       | 1.075702099    | NA           | background | background | background | background | 5      |
| 73 | ENSG00000235098.8       | 1.136248904    | background   | background | background | background | background | 5      |
| ENSG00000235109.7 | -1.187364995 | 5 | background | background | 3 |
|------------------|----------------|-----|-------------|-------------|---|
| ENSG00000235162.8 | -1.007030322 | background | background | background | 4 |
| ENSG00000237515.8 | 1.221088654 | background | background | background | 4 |
| ENSG00000239704.10 | 1.436139768 | background | background | background | 5 |
| ENSG00000239713.8 | 1.091059328 | background | background | background | 5 |
| ENSG00000242220.6 | 1.942264531 | background | background | background | 5 |
| ENSG00000243910.7 | 2.101879777 | background | background | background | 5 |
| ENSG00000243955.5 | 2.029805497 | background | background | background | 4 |
| ENSG00000244067.2 | 1.459020975 | background | background | background | 4 |
| ENSG00000244462.7 | -1.240614348 | background | background | background | 5 |
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| ENSG00000248751.6 | 3.442880771 | background | background | background | 5 |
| ENSG00000249624.8 | -3.213654563 | background | background | background | 5 |
| ENSG00000249709.7 | -1.02943144 | background | background | background | 5 |
| ENSG00000250264.1 | -1.189148558 | background | background | background | 5 |
| ENSG00000251201.8 | -1.795898698 | background | background | background | 5 |
| ENSG00000251569.1 | -1.710796381 | background | background | background | 5 |
| ENSG00000254402.6 | 1.391566554 | background | background | background | 5 |
| ENSG00000254827.5 | 1.504652403 | background | background | background | 5 |
| ENSG00000255071.3 | 2.475686157 | background | background | background | 5 |
| ENSG00000255398.2 | 1.812061798 | background | background | background | 5 |
| ENSG00000255423.1 | -1.055143989 | background | background | background | 5 |
| ENSG00000256671.3 | -1.021509262 | background | background | background | 5 |
| ENSG00000257591.5 | -1.199947487 | background | background | background | 5 |
| ENSG00000258472.8 | 1.023017921 | background | background | background | 5 |
| ENSG00000259030.6 | -4.348432637 | background | background | background | 5 |
| ENSG00000259132.1 | 8.308569111 | background | background | background | 5 |
| ENSG00000259399.1 | -1.304159949 | background | background | background | 5 |
| ENSG00000259417.2 | 1.466581098 | background | background | background | 5 |
| ENSG0000026001.6 | 1.599924921 | background | background | background | 5 |
| ENSG00000262179.2 | 3.951065462 | background | background | background | 5 |
| ENSG00000263002.7 | -1.126377944 | background | background | background | 5 |
| ENSG00000266964.5 | 1.492174575 | background | background | background | 5 |
| ENSG00000267534.2 | 1.364252295 | background | background | background | 5 |
| ENSG00000268643.1 | -5.787011294 | background | background | background | 5 |
| ENSG00000268750.6 | -1.420293914 | background | background | background | 5 |
| ENSG00000269343.6 | -1.287083948 | background | background | background | 5 |
| ENSG00000270136.5 | 2.214861765 | background | background | background | 5 |
| ENSG00000270276.2 | 1.467332122 | background | background | background | 5 |
| ENSG00000271824.1 | 2.509934883 | background | background | background | 5 |
| Ensembl ID     | Value       | Gene ID | Exon | Start (position) | End (position) | Strand |
|---------------|-------------|---------|------|-----------------|----------------|--------|
| ENSG00000272196.2 | 1.6799777872 | NA      | background | background | background | background |
| ENSG00000275740.1 | -1.792681536 | background | background | background | background | 5      |
| ENSG00000275832.4 | -2.156020573 | background | background | background | background | 4      |
| ENSG00000276076.4 | 1.294027837 | background | background | background | background | 5      |
| ENSG00000278558.4 | -1.1419946  | background | background | NA           | background   | background |
| ENSG00000278828.1 | 1.345150765 | background | background | background | background | 5      |
| ENSG00000279765.3 | 1.27627694  | background | background | NA           | background   | 5      |
| ENSG00000280331.1 | 4.33496669  | background | NA     | background      | background   | 5      |
| ENSG00000280987.4 | -1.153163868 | background | background | background | background | 5      |
| ENSG00000281028.1 | -5.242475065 | background | background | background | background | 5      |
| ENSG00000281991.1 | 7.714709172 | background | background | background | background | 5      |
| ENSG00000001084.10 | -1.007732365 | background | 4      | 5              | 4            |
| ENSG00000003096.14 | 1.436264101 | background | background | background | 4      |
| ENSG00000003137.8 | -1.95501064 | background | 4      | 3              | 3            |
| ENSG00000004809.13 | 1.379798531 | background | background | background | background | 3      |
| ENSG00000005187.11 | 2.030089892 | background | background | background | background | 3      |
| ENSG00000007372.21 | -1.976719276 | background | background | background | background | 5      |
| ENSG00000008226.19 | -1.051484445 | background | 5      | 3              | 3            |
| ENSG00000008735.13 | 2.049128007 | background | 5      | 3              | 3            |
| ENSG00000010030.13 | 1.05764764 | background | 5      | 5              | 4            |
| ENSG00000012504.13 | 1.61371574 | background | background | background | background | 4      |
| ENSG00000013588.7 | -2.065102332 | background | 4      | 3              | 3            |
| ENSG00000015568.12 | -1.379147666 | background | background | background | background | 4      |
| ENSG00000019102.11 | -1.12450405 | background | background | 5      | 4            |
| ENSG00000023839.10 | -1.19480371 | background | 5      | background      | background   | 4      |
| ENSG00000023909.9 | -1.011548141 | background | 5      | 3              | 3            |
| ENSG00000024422.11 | -2.091962343 | background | 5      | 3              | 3            |
| ENSG00000026025.15 | -1.37329846 | background | background | background | 5      |
| ENSG00000033122.18 | -1.31951894 | background | background | 3      |
| ENSG00000038427.15 | -1.675619016 | background | 5      | 5              | 4            |
| ENSG00000039068.18 | 1.016803018 | background | background | background | 3      |
| ENSG00000039537.13 | 1.542509785 | background | 5      | background      | background   | 3      |
| ENSG00000047365.11 | -1.769404269 | background | background | background | background | 4      |
| ENSG00000048405.9 | -1.039284002 | background | 5      | background      | background   | 3      |
| ENSG00000049192.14 | -1.655243344 | background | 4      | 4              | 5            |
| ENSG00000049283.17 | 1.168648248 | background | 5      | 5              | 4            |
| ENSG00000052344.15 | 1.16071772 | background | 5      | background      | background   | 3      |
| ENSG00000052802.12 | 1.326199523 | background | background | background | 4      |
| ENSG00000054148.17 | 1.17468451 | background | background | background | 4      |
| ENSG00000054392.12 | 1.055925642 | background | 5      | background      | 3      |
| ENSG ID | Value | Background | Na | ENSG ID | Value | Background | Na | ENSG ID | Value | Background | Na |
|--------|------|------------|----|--------|------|------------|----|--------|------|------------|----|
| ENSG00000054938.15 | 4.417626346 | background | background | background | background | 3 |
| ENSG00000055957.10 | 1.965474868 | background | background | background | background | 3 |
| ENSG00000056277.15 | -1.041814635 | background | background | background | 4 |
| ENSG00000058866.14 | -1.097428892 | background | 5 | background | 5 | 3 |
| ENSG00000059145.18 | -1.366456978 | NA | background | background | 4 |
| ENSG00000060566.13 | 1.22438658 | background | background | background | 4 |
| ENSG00000063030.8 | -1.827820868 | background | background | 4 | 4 |
| ENSG00000064309.14 | -1.079761542 | 5 | background | background | 3 |
| ENSG00000064703.11 | -1.062478124 | background | 5 | background | 4 |
| ENSG00000065328.16 | -1.147609138 | background | background | background | 4 |
| ENSG00000065357.19 | -1.139208072 | background | background | background | 4 |
| ENSG00000066813.14 | 1.8912994 | background | background | background | 4 |
| ENSG00000067057.16 | -1.026732527 | 4 | background | background | 4 |
| ENSG00000067113.16 | 1.07507638 | background | background | background | 2 |
| ENSG00000068650.18 | -1.442502276 | 5 | background | 5 | 4 |
| ENSG00000068654.15 | -1.01102208 | 4 | background | 4 | 4 |
| ENSG00000069493.14 | 1.05382263 | background | background | 5 | 5 |
| ENSG00000070047.11 | -1.042537186 | 5 | background | background | 4 |
| ENSG00000071205.11 | 1.737017432 | 5 | background | 5 | 3 |
| ENSG00000071859.14 | 1.05880974 | 4 | background | background | 4 |
| ENSG00000072071.16 | -1.158131805 | 5 | background | 5 | 2 |
| ENSG00000072501.17 | -1.37749359 | 3 | background | 5 | 3 |
| ENSG00000072571.19 | -1.055390846 | background | background | background | 5 |
| ENSG00000073670.13 | 2.279448195 | 5 | background | 5 | 4 |
| ENSG00000074590.13 | -1.016572237 | 4 | background | 4 | 4 |
| ENSG00000075461.5 | -1.482724163 | NA | background | 5 | 3 |
| ENSG00000076067.12 | -1.410384035 | background | background | background | 4 | 4 |
| ENSG00000078401.6 | -1.996088323 | background | background | background | 4 |
| ENSG00000078804.12 | 1.805007069 | background | background | 5 | 4 |
| ENSG00000079263.18 | 1.126314461 | background | background | background | 2 |
| ENSG00000079435.9 | -1.067891169 | background | background | background | 3 |
| ENSG00000080345.17 | -1.027442169 | 5 | background | background | 3 |
| ENSG00000080603.16 | -1.581613215 | 5 | background | 5 | 4 |
| ENSG00000081051.7 | 1.205054807 | background | background | background | 5 |
| ENSG00000081189.15 | -4.257521228 | 5 | background | 5 | 4 |
| ENSG00000083520.14 | -1.025183006 | background | background | background | 5 |
| ENSG00000083844.10 | -1.010947352 | background | 5 | background | 4 |
| ENSG00000086159.12 | 2.717169169 | NA | background | 5 | 4 |
| ENSG00000086696.10 | 2.325361866 | NA | background | background | 4 |
| ENSG00000087076.8 | 2.566520186 | background | 3 | background | 3 |
| Gene ID           | Log2FoldChange | Background | Background | Background | P-value |
|------------------|----------------|------------|------------|------------|---------|
| ENSG00000088448.14 | -1.076104663   | background | background | background | 5       |
| ENSG00000088836.12 | -1.004391503   | 5          | background | background | 4       |
| ENSG00000089220.4  | 1.198299579    | background | background | background | 4       |
| ENSG00000090512.11 | 2.071360137    | background | background | background | 5       |
| ENSG00000091490.10 | -1.900860585   | 5          | background | background | 4       |
| ENSG00000091513.14 | 1.171770063    | 5          | 4          | background | 4       |
| ENSG00000091583.10 | 1.09800024     | background | background | background | 4       |
| ENSG00000092140.14 | -1.181428477   | background | background | background | 5       |
| ENSG00000092529.23 | 2.193302656    | 5          | background | background | 4       |
| ENSG00000092621.12 | 1.074073637    | 5          | 5          | background | 3       |
| ENSG00000094804.9  | -1.143565537   | 5          | 5          | 5          | 5       |
| ENSG00000095464.9  | 1.42242403     | background | background | background | 3       |
| ENSG00000095564.13 | -1.162193745   | background | background | background | 4       |
| ENSG00000095637.21 | -1.421378353   | background | NA         | NA         | 3       |
| ENSG00000095932.6  | 1.107941213    | background | background | background | 4       |
| ENSG00000095970.16 | 4.596667053    | background | background | 3          | 3       |
| ENSG00000096433.10 | -1.987157288   | 5          | 4          | 5          | 3       |
| ENSG00000099282.9  | -1.466480041   | NA         | background | 5          | 3       |
| ENSG00000099337.4  | 1.189062055    | NA         | background | 4          | 4       |
| ENSG00000099365.10 | 1.296230591    | 5          | 5          | 5          | 2       |
| ENSG00000099812.8  | -1.359772541   | 4          | background | 5          | 3       |
| ENSG00000099840.13 | 1.398082353    | background | background | 4          | 4       |
| ENSG00000099860.8  | 1.176405972    | 5          | background | 5          | 5       |
| ENSG00000099953.9  | 1.632940849    | 5          | background | 5          | 4       |
| ENSG000000100078.3 | 2.010443968    | background | background | 5          | 4       |
| ENSG000000100079.6 | 1.674619866    | background | background | 5          | 5       |
| ENSG000000100253.12 | 1.03619893    | 4          | background | 5          | 4       |
| ENSG000000100290.2 | -1.937311033   | background | background | 3          | 3       |
| ENSG000000100297.15 | -1.373562084   | 4          | background | 5          | 4       |
| ENSG000000100393.12 | -1.050554467   | 5          | 5          | background | 4       |
| ENSG000000100490.9 | 1.738880189    | background | background | 5          | 5       |
| ENSG000000100558.8 | 3.472479193    | background | background | 3          | 3       |
| ENSG000000100593.17 | -1.875945713   | 5          | background | 4          | 4       |
| ENSG000000100625.8 | -1.301568615   | 4          | 5          | background | 4       |
| ENSG000000100979.14 | 1.027865013    | background | background | 4          | 4       |
| ENSG000000101049.14 | 1.341171447    | background | background | 5          | 4       |
| ENSG000000101162.3 | -1.215955      | 5          | 5          | background | 4       |
| ENSG000000101180.15 | 2.65844792    | background | background | 5          | 4       |
| ENSG000000101197.12 | -1.245644935   | background | background | 5          | 5       |
| ENSG000000101210.10 | -1.666093937   | background | background | 5          | 4       |
| ENSG000000101222.12 | 1.67687512    | 5          | background | 5          | 4       |
| Chromosome | Gene Accession | Log2 Fold Change | P-value | Method 1 | Method 2 | Method 3 |
|------------|----------------|-----------------|---------|----------|----------|----------|
| 74         | ENSG00000101384.11 | -1.250446784    | 3       | background | background | background |
| 74         | ENSG00000101470.9   | 2.653244323     | 4       | background | background | background |
| 74         | ENSG00000101605.12 | 2.153179125     | 3       | background | background | background |
| 74         | ENSG00000101670.11 | 1.947152763     | 3       | background | background | background |
| 74         | ENSG00000101871.14 | -1.064543315    | 3       | background | background | background |
| 74         | ENSG00000102034.16 | -1.217021451    | 3       | background | background | background |
| 74         | ENSG00000102048.15 | 1.04422129      | 4       | background | background | background |
| 74         | ENSG00000102174.8  | 3.176564318     | 3       | background | background | background |
| 74         | ENSG00000102362.15 | -2.826853354    | 4       | background | background | background |
| 74         | ENSG00000102575.10 | 1.298614466     | 5       | background | background | background |
| 74         | ENSG00000102886.14 | 2.019460371     | 4       | background | background | background |
| 74         | ENSG00000102935.11 | 1.004524995     | 5       | background | background | background |
| 74         | ENSG00000102981.9  | 1.043837707     | 5       | background | background | background |
| 74         | ENSG00000103044.10 | -1.748495792    | 4       | background | background | background |
| 74         | ENSG00000103227.18 | -1.00538161     | 4       | background | background | background |
| 74         | ENSG00000103375.10 | 1.762528334     | 2       | background | background | background |
| 74         | ENSG00000103485.17 | 1.004524995     | 4       | background | background | background |
| 74         | ENSG00000103522.15 | 2.064465904     | 4       | background | background | background |
| 74         | ENSG00000103647.12 | -1.146756035    | 4       | background | background | background |
| 74         | ENSG00000103888.16 | -1.457561758    | 5       | background | background | background |
| 74         | ENSG00000104611.11 | -1.08870493     | 4       | background | background | background |
| 74         | ENSG00000105245.9  | -1.153957791    | 5       | background | background | background |
| 74         | ENSG00000105376.4  | -1.504226558    | 3       | background | background | background |
| 74         | ENSG00000105398.3  | 1.855374381     | 4       | background | background | background |
| 74         | ENSG00000105464.3  | -1.262580526    | 4       | background | background | background |
| 74         | ENSG00000105497.7  | -1.120640527    | 5       | background | background | background |
| 74         | ENSG00000105613.9  | 1.13429455      | 4       | background | background | background |
| 74         | ENSG00000105650.21 | 1.295935216     | 5       | background | background | background |
| 74         | ENSG00000105732.12 | -1.294411761    | 4       | background | background | background |
| 74         | ENSG00000105866.13 | -1.07511883     | 4       | background | background | background |
| 74         | ENSG00000106003.12 | -1.236556751    | 4       | background | background | background |
| 74         | ENSG00000106333.12 | 1.110225869     | 4       | background | background | background |
| 74         | ENSG00000106384.10 | 1.292472241     | 4       | background | background | background |
| 74         | ENSG00000106483.11 | 1.282298798     | 4       | background | background | background |
| 74         | ENSG00000106538.9  | 1.286471683     | 4       | background | background | background |
| 74         | ENSG00000106546.12 | -1.410925855    | 4       | background | background | background |
| 74         | ENSG00000106780.8  | 1.15188905      | 2       | background | background | background |
| 74         | ENSG00000106976.20 | -3.645069118    | 3       | background | background | background |
| Gene ID          | Gene Symbol | Log2 Fold Change | Description | Chromosome | Start Position | End Position |
|-----------------|-------------|-----------------|-------------|------------|----------------|--------------|
| ENSG00000107159.12 |            | -2.071516698   | background  | 74         |                |              |
| ENSG00000107537.13 |            | 1.321348508    | background  | 74         |                |              |
| ENSG00000107560.10 |            | -1.00058669    | background  | 74         |                |              |
| ENSG00000107796.13 |            | 1.382427334    | background  | 74         |                |              |
| ENSG00000107807.12 |            | 3.687504703    | background  | 74         |                |              |
| ENSG00000107984.9 |            | -1.243295056   | background  | 74         |                |              |
| ENSG00000108231.12 |            | -1.433198153   | background  | 74         |                |              |
| ENSG00000108375.12 |            | -1.102515234   | background  | 74         |                |              |
| ENSG00000108830.9 |            | 1.572711161    | background  | 74         |                |              |
| ENSG00000110042.7 |            | 1.393174011    | background  | 74         |                |              |
| ENSG00000110169.10 |          | 2.503346062    | background  | 74         |                |              |
| ENSG00000110245.11 |          | 1.413747511    | background  | 74         |                |              |
| ENSG00000110318.13 |          | 1.608418852    | background  | 74         |                |              |
| ENSG00000110436.11 |          | 1.50493605     | background  | 74         |                |              |
| ENSG00000110693.17 |          | -1.250874501   | background  | 74         |                |              |
| ENSG00000110799.13 |          | 2.636095257    | background  | 74         |                |              |
| ENSG00000110887.7 |            | 2.205308351    | background  | 74         |                |              |
| ENSG00000110921.13 |          | 1.090992405    | background  | 74         |                |              |
| ENSG00000111181.12 |          | 2.177402465    | background  | 74         |                |              |
| ENSG00000111199.10 |          | -1.168269314   | background  | 74         |                |              |
| ENSG00000111291.8 |            | 2.303982411    | NA          | 74         |                |              |
| ENSG00000111335.12 |          | -1.182410575   | background  | 74         |                |              |
| ENSG00000111700.12 |          | 2.031921046    | background  | 74         |                |              |
| ENSG00000112183.14 |          | -1.330797074   | background  | 74         |                |              |
| ENSG00000112186.11 |          | -1.182642946   | background  | 74         |                |              |
| ENSG00000112379.8 |            | -1.090766268   | background  | 74         |                |              |
| ENSG00000112414.14 |          | -1.089974309   | background  | 74         |                |              |
| ENSG00000112874.9 |            | -1.08887656    | background  | 74         |                |              |
| ENSG00000113083.13 |          | -1.401310109   | background  | 74         |                |              |
| ENSG00000113657.12 |          | -3.78392296    | background  | 74         |                |              |
| ENSG00000113889.11 |          | 2.320669844    | background  | 74         |                |              |
| ENSG00000113946.3 |            | -2.654873061   | background  | 74         |                |              |
| ENSG00000114115.9 |            | -1.477160397   | background  | 74         |                |              |
| ENSG00000115009.11 |          | 1.340747834    | background  | 74         |                |              |
| ENSG00000115129.13 |          | 1.44717722     | background  | 74         |                |              |
| ENSG00000115194.10 |          | -1.058039937   | background  | 74         |                |              |
| ENSG00000115325.13 |          | -2.067740232   | background  | 74         |                |              |
| ENSG00000115641.18 |          | -1.134131317   | background  | 74         |                |              |
| ENSG00000116062.14 |          | -1.177961119   | background  | 74         |                |              |
| ENSG00000116128.10 |          | -1.06568284    | background  | 74         |                |              |
| ENSG00000116667.12 |          | -4.477056612   | background  | 74         |                |              |
| Gene ID                  | Value        | Type | Background | Value | Background |
|-------------------------|--------------|------|------------|-------|------------|
| ENSG00000116678.19      | -1.137767498 | 5    | background | 5     | background |
| ENSG00000117394.20      | -1.827449595 | 5    | background | 5     | background |
| ENSG00000118137.9       | 1.01012081   | 5    | background | 5     | background |
| ENSG00000118496.4       | -0.056415172 | 5    | background | 5     | background |
| ENSG00000118514.13      | 1.128164034  | 5    | background | 5     | background |
| ENSG00000118520.14      | 1.270256482  | 5    | background | 5     | background |
| ENSG00000118777.10      | -1.021000288 | 5    | background | 5     | background |
| ENSG00000118965.14      | -1.008516714 | 5    | background | 5     | background |
| ENSG00000118972.1       | 2.195496515  | 5    | background | 5     | background |
| ENSG00000119121.21      | 2.511320399  | 5    | background | 5     | background |
| ENSG00000119125.16      | -1.655276149 | 5    | background | 5     | background |
| ENSG00000119535.17      | 1.098388548  | 5    | background | 5     | background |
| ENSG00000119630.13      | 1.576473837  | 5    | background | 5     | background |
| ENSG00000119711.12      | 1.033160288  | 5    | background | 5     | background |
| ENSG00000119737.5       | -2.147132863 | NA   | background | 4     | background |
| ENSG00000119782.13      | 1.332165894  | 5    | background | 5     | background |
| ENSG00000120129.5       | 1.295911422  | background | background | 5     | background |
| ENSG00000120437.8       | 1.233839874  | 5    | background | 5     | background |
| ENSG00000120738.7       | 1.473211649  | NA   | background | 5     | background |
| ENSG00000120784.15      | -1.206682404 | 5    | background | 5     | background |
| ENSG00000120875.8       | -1.206474554 | 5    | background | 5     | background |
| ENSG00000121075.9       | -1.75430122  | NA   | background | 4     | background |
| ENSG00000121270.15      | 1.9596285    | 5    | background | 5     | background |
| ENSG00000121410.11      | 1.271271908  | NA   | background | 5     | background |
| ENSG00000121552.3       | 3.775270471  | NA   | background | 4     | background |
| ENSG00000121769.7       | 1.380801285  | 5    | background | 5     | background |
| ENSG00000121858.10      | 1.024904681  | 5    | background | 5     | background |
| ENSG00000122778.14      | 1.384943346  | 5    | background | 5     | background |
| ENSG00000122966.15      | -1.062282963 | 5    | background | 5     | background |
| ENSG00000123240.16      | 1.088222395  | 5    | background | 5     | background |
| ENSG00000123405.13      | -1.161078062 | 5    | background | 5     | background |
| ENSG00000123454.10      | 1.019677713  | 5    | background | 5     | background |
| ENSG00000123983.13      | 1.005907787  | 5    | background | 5     | background |
| ENSG00000124003.12      | 1.502375989  | NA   | background | 4     | background |
| ENSG00000124140.13      | 1.075977277  | 5    | background | 5     | background |
| ENSG00000124201.14      | -1.169756364 | 5    | background | 5     | background |
| ENSG00000124253.10      | 1.33597467   | 5    | background | 5     | background |
| ENSG00000124256.14      | -3.22235967  | NA   | background | 4     | background |
| ENSG00000124275.14      | -1.04139768  | 5    | background | 5     | background |
| ENSG00000124343.12      | 5.04625368   | NA   | background | 5     | background |
| Gene ID          | Value1       | Value2       | Value3       | Value4       | Value5       |
|------------------|--------------|--------------|--------------|--------------|--------------|
| ENSG00000124602.9| -1.07469646  | background   | background   | 3            | 3            |
| ENSG00000124635.8| 1.810166964  | NA           | NA           | NA           | 5            |
| ENSG00000124713.5| 2.521743484  | 5            | background   | background   | 4            |
| ENSG00000124743.5| -1.493816952 | background   | background   | background   | 5            |
| ENSG00000124762.13| 1.27729093   | NA           | background   | 4            | 4            |
| ENSG00000125122.15| 1.60981178   | background   | background   | background   | 4            |
| ENSG00000125740.13| 2.23292849   | NA           | background   | 4            | 4            |
| ENSG00000126001.15| -1.037096787 | 3            | background   | 3            | 3            |
| ENSG00000126262.4| 3.818364902  | NA           | NA           | 5            | 5            |
| ENSG00000126709.14| -1.742065895 | NA           | background   | 3            | 3            |
| ENSG00000126822.16| -1.046223191 | background   | background   | 3            | 3            |
| ENSG00000127081.13| -1.51620587  | background   | 5            | background   | 4            |
| ENSG00000127324.8| -1.358957268 | background   | background   | 3            | 3            |
| ENSG00000127329.15| 1.71249466   | background   | background   | 3            | 3            |
| ENSG00000127528.5| 1.41402844   | background   | background   | 5            | 4            |
| ENSG00000127561.14| 1.443417772  | background   | background   | 4            | 4            |
| ENSG00000127578.6| 1.415525191  | NA           | background   | 5            | 5            |
| ENSG00000127743.5| 1.473451485  | background   | background   | 3            | 3            |
| ENSG00000127824.13| -1.245323793 | background   | background   | 5            | 3            |
| ENSG00000128011.4| -2.438991586 | NA           | NA           | 5            | 4            |
| ENSG00000128165.8| 1.560265735  | background   | background   | 5            | 5            |
| ENSG00000128272.14| 1.041985165  | NA           | background   | 5            | 5            |
| ENSG000001288578.9| -1.056742716 | background   | background   | 3            | 3            |
| ENSG00000128591.15| -3.473846193 | 3            | background   | 3            | 3            |
| ENSG00000129167.9| -1.218007948 | 5            | background   | 5            | 5            |
| ENSG00000129214.14| 2.59951391   | background   | background   | 4            | 4            |
| ENSG00000129354.11| 1.406228523  | background   | background   | 5            | 4            |
| ENSG00000129355.6| 1.098604667  | NA           | 5            | 5            | 4            |
| ENSG00000129596.4| 1.590142211  | background   | background   | 5            | 5            |
| ENSG00000129646.14| 1.698456164  | 5            | 5            | background   | 4            |
| ENSG00000129946.10| 1.018067667  | background   | NA           | background   | 4            |
| ENSG00000130032.15| 3.238473879  | background   | background   | 4            | 4            |
| ENSG0000013023.9| 1.236544977  | background   | background   | 3            | 3            |
| ENSG00000130304.16| -1.025063582 | background   | background   | 5            | 3            |
| ENSG00000130427.2| 1.531579005  | background   | background   | 4            | 4            |
| ENSG00000130477.15| 1.268298471  | 5            | NA           | 4            | 3            |
| ENSG00000130522.5| 1.002223037  | NA           | background   | 4            | 4            |
| ENSG00000130635.15| -4.78257326  | 5            | 5            | 2            | 2            |
| ENSG00000130707.17| 1.469311736  | 5            | background   | 3            | 3            |
| ENSG00000130749.9| -1.293674922 | 5            | background   | 5            | 4            |
| ENSG00000130876.11| 2.306377991  | background   | background   | 5            | 4            |
| Gene ID     | Value               | Background |   |   |
|------------|---------------------|------------|---|---|
| ENSG00000130988.12 | 1.091974054         | background | background | background |
| ENSG00000131069.19 | 1.923520778         | background | background | background |
| ENSG00000131386.17 | 1.71364073          | 5          | background | background |
| ENSG00000131477.10 | 1.132457554         | background | background | background |
| ENSG00000131346.12 | -1.75490737         | background | background | background |
| ENSG00000131845.14 | -1.081040573        | 5          |          | background |
| ENSG00000132031.12 | -1.71938969         | NA         | background | background |
| ENSG00000132207.17 | 1.24838839          | 4          | background | background |
| ENSG00000132517.14 | 1.886401561         | background | background | background |
| ENSG00000132563.15 | 1.457023507         | background | background | background |
| ENSG00000132854.18 | 1.501707887         | background | background | background |
| ENSG00000133055.8 | -1.319745212        | 5          | background | background |
| ENSG00000133124.11 | -1.625627115        | NA         | background | background |
| ENSG00000133169.5 | 1.657192335         | NA         | background | background |
| ENSG00000133477.16 | -2.319745212        | 5          | background | background |
| ENSG00000133816.13 | -1.663734318        | background | background | background |
| ENSG00000133935.6 | 1.336401707         | 5          | 5          | background |
| ENSG0000013420.11 | 1.737254299         | background | background | background |
| ENSG00000134323.11 | -1.389347722        | background | background | background |
| ENSG00000134762.16 | 1.845995467         | background | background | background |
| ENSG00000134802.17 | -2.88395537         | background | background | background |
| ENSG00000134962.6 | 1.166486041         | background | background | background |
| ENSG00000134987.11 | -1.25954032         | background | background | background |
| ENSG00000135074.15 | -1.56283982         | 5          | background | background |
| ENSG00000135116.9 | 3.378420641         | NA         | background | background |
| ENSG00000135119.14 | 1.522339403         | 5          | 5          | background |
| ENSG00000135253.13 | 1.168602225         | 5          | background | background |
| ENSG00000135423.12 | 1.22055345          | background | background | background |
| ENSG00000135439.11 | 1.653304054         | 5          | 5          | background |
| ENSG00000135549.10 | 1.456738855         | NA         | background | background |
| ENSG00000135638.13 | 1.798416303         | background | 5          | 4          |
| ENSG00000135643.4 | 1.611405764         | background | 4          | 5          |
| ENSG00000136122.15 | -1.002699464        | background | background | background |
| ENSG00000136197.12 | -1.289420964        | NA         | 5          | background |
| ENSG00000136237.18 | -1.150778488        | 4          | 5          | background |
| ENSG00000136367.13 | 1.521811786         | 4          |          | background |
| ENSG00000136383.6 | -2.889982691        | 3          | background | background |
| ENSG00000136514.2 | 1.916210786         | NA         | background | background |
| ENSG00000136689.18 | 1.06916036          | background | background | background |
| ENSG00000136717.14 | -1.584811494        | 5          | background | background |
| ENSG00000136881.11 | -2.262184858        | background | background | background |
| Gene ID       | Value       | Background | Value | Background | Value | Background | Value | Background | Value | Background | Value | Background |
|--------------|-------------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|
| ENSG0000014379.7.11 | -2.026512291 | background | 5     | 5          | 3     | background | background | background | 4     | background | background | background |
| ENSG0000014385.14 | 1.2567232    | background | 4     | 4          | 4     | background | background | background | 4     | background | background | background |
| ENSG0000014386.7.6 | -1.00477813  | background | background | background | background | background | background | 4     | background | background | background |
| ENSG0000014452.14 | 2.526637451  | 5          | background | 3          | 3     | background | background | background | 3     | background | background | background |
| ENSG0000014456.12 | 3.016299524  | 3          | 5          | 4          | 4     | background | background | background | 5     | background | background | background |
| ENSG0000014479.1.9 | -1.016298184 | background | background | background | 4     | background | background | background | 4     | background | background | background |
| ENSG0000014483.13 | 2.403404549  | background | 5     | background | 3     | background | background | background | 3     | background | background | background |
| ENSG0000014489.1.7 | 1.14274825   | NA         | background | background | 4     | background | background | background | 4     | background | background | background |
| ENSG0000014524.13 | 1.125071354  | 5          | 5          | background | 4     | background | background | background | 4     | background | background | background |
| ENSG0000014528.1.4 | -1.347780818 | background | background | background | 4     | background | background | background | 4     | background | background | background |
| ENSG0000014537.5.7 | -1.152652449 | 5          | background | 5          | 3     | background | background | background | 5     | background | background | background |
| ENSG0000014541.13 | -1.165314108 | background | background | background | 3     | background | background | background | 4     | background | background | background |
| ENSG0000014569.2.1 | 2.47233401   | 5          | background | 4          | 4     | background | background | background | 4     | background | background | background |
| ENSG0000014582.12 | 2.930610932  | background | background | background | 4     | background | background | background | 4     | background | background | background |
| ENSG0000014592.14 | -1.086712974 | 5          | background | 5          | 3     | background | background | background | 5     | background | background | background |
| ENSG0000014597.5.14 | -4.269197383 | background | background | background | 5     | background | background | background | 5     | background | background | background |
| ENSG0000014609.13 | -1.029481992 | background | background | background | 5     | background | background | background | 5     | background | background | background |
| ENSG0000014616.17 | 1.090269151  | background | background | background | 4     | background | background | background | 4     | background | background | background |
| ENSG0000014655.18 | -2.31952879  | 4          | background | 5          | 2     | background | background | background | 4     | background | background | background |
| ENSG0000014675.5.10 | 2.740405696  | 5          | 5          | background | 4     | background | background | background | 4     | background | background | background |
| ENSG0000014683.18 | 2.206059026  | 5          | background | background | 3     | background | background | background | 4     | background | background | background |
| ENSG0000014685.8 | -1.140324653 | background | background | 5          | 4     | background | background | background | 4     | background | background | background |
| ENSG0000014715.10 | 1.056772184  | 4          | background | background | 4     | background | background | background | 4     | background | background | background |
| ENSG0000014740.8  | 1.228458115  | NA         | background | background | 5     | background | background | background | 5     | background | background | background |
| ENSG0000014740.14 | -1.268831458 | background | background | background | 3     | background | background | background | 4     | background | background | background |
| ENSG0000014746.11 | 2.775834492  | background | background | background | 5     | 4          | background | background | 4     | background | background | background |
| ENSG0000014780.4.9 | 1.168530544  | 5          | background | background | 4     | background | background | background | 4     | background | background | background |
| ENSG0000014785.15 | 1.162803037  | 5          | 5          | 3     | 3          | background | background | 4     | background | background | background |
| ENSG0000014855.14 | 1.068962743  | 5          | background | background | 3     | background | background | background | 4     | background | background | background |
| ENSG0000014892.6.9 | 1.278252794  | background | background | background | 5     | 4          | background | background | 5     | background | background | background |
| ENSG0000014896.5.9 | 2.211647617  | 5          | background | background | 4     | background | background | background | 4     | background | background | background |
| ENSG0000014912.4.10 | 1.459793682  | background | background | background | 5     | 3          | background | background | 5     | background | background | background |
| ENSG0000014932.14 | -1.597438964 | 5          | background | 5          | 3     | background | background | background | 5     | background | background | background |
| ENSG0000014942.18 | -1.163457323 | 3          | background | 5          | 3     | background | background | background | 5     | background | background | background |
| ENSG0000014950.3.12 | -1.290298739 | 5          | 5          | background | 3     | background | background | background | 4     | background | background | background |
| ENSG0000014952.17 | -1.023432546 | 4          | background | 3          | 3     | background | background | background | 4     | background | background | background |
| ENSG0000014973.5.6 | 1.319496106  | 5          | background | background | 4     | background | background | background | 5     | background | background | background |
| ENSG0000014974.2.9 | 1.169940373  | 5          | 5          | background | 5     | background | background | background | 5     | background | background | background |
| ENSG0000014980.14 | 1.832331139  | background | background | background | 3     | background | background | background | 5     | background | background | background |
| Gene ID          | Value          | Background | Background | Background | Count |
|-----------------|----------------|------------|------------|------------|-------|
| ENSG00000149968.11 | 1.888374888    | background | background | background | 5     |
| ENSG00000150281.6  | 1.191604001    | background | background | 5          | 4     |
| ENSG00000150347.14 | -1.221134437   | background | background | 5          | 3     |
| ENSG00000150637.8  | -1.963471037   | background | 5          | background | 4     |
| ENSG00000150977.10 | 1.130559924    | background | 5          | 4          | 4     |
| ENSG00000151006.7  | -1.255033563   | 4          | background | background | 4     |
| ENSG00000151322.18 | 4.540122614    | 5          | background | background | 2     |
| ENSG00000151693.10 | -1.078106999   | background | background | background | 3     |
| ENSG00000151726.13 | 1.30256195     | 5          | background | background | 4     |
| ENSG00000151967.18 | 1.995493988    | background | background | background | 4     |
| ENSG00000152193.7  | -1.231123731   | background | background | 5          | 5     |
| ENSG00000152315.4  | 1.784841322    | NA         | background | 5          | 4     |
| ENSG00000152926.14 | -1.00896929    | background | background | background | 4     |
| ENSG00000153029.14 | 1.836694305    | NA         | background | 5          | 4     |
| ENSG00000153446.15 | 1.364409049    | background | 4          | 5          | 4     |
| ENSG00000153789.12 | 2.337243514    | 5          | background | background | 4     |
| ENSG00000153832.11 | -1.050658648   | background | background | 5          | 3     |
| ENSG00000153902.13 | 2.120159808    | background | 4          | background | 3     |
| ENSG00000153976.2  | -2.158344348   | NA         | background | background | 3     |
| ENSG00000154734.14 | -3.104978929   | background | background | 5          | 5     |
| ENSG00000154930.14 | 1.067219646    | 4          | background | 4          | 3     |
| ENSG00000155428.12 | 1.65094547     | NA         | background | 5          | 4     |
| ENSG00000155980.11 | -1.654969113   | 5          | background | 5          | 3     |
| ENSG00000156096.13 | 1.582443996    | background | background | background | 4     |
| ENSG00000156172.5  | -1.086119515   | background | background | background | 5     |
| ENSG00000156463.17 | -1.040619145   | 5          | background | background | 4     |
| ENSG00000156966.6  | -1.729217181   | NA         | background | 5          | 4     |
| ENSG00000157510.13 | 1.15520068     | background | background | 5          | 3     |
| ENSG00000157551.17 | 1.892492448    | background | background | 5          | 2     |
| ENSG00000157654.17 | -6.673131265   | background | background | 3          | 3     |
| ENSG00000157873.17 | 1.345473198    | background | background | background | 4     |
| ENSG00000158246.7  | -1.018085951   | NA         | background | 5          | 5     |
| ENSG00000158806.13 | 1.330512491    | background | background | background | 4     |
| ENSG00000158865.12 | -1.208659046   | 5          | background | background | 4     |
| ENSG00000158887.15 | -1.254238752   | 5          | background | 4          | 4     |
| ENSG00000159403.11 | 2.074810471    | background | background | NA         | 3     |
| ENSG00000160097.16 | 1.163393733    | 5          | 5          | background | 4     |
| ENSG00000160183.13 | 1.383498377    | 5          | background | background | 4     |
| ENSG00000160323.18 | 1.412086416    | background | background | 5          | 2     |
| ENSG00000160326.13 | 1.385868677    | background | background | background | 4     |
| ENSG00000160870.12 | 1.590418808    | 5          | background | background | 4     |
| Gene ID         | Value          | Feature 1  | Feature 2  | Feature 3  | Feature 4  | Feature 5  | Feature 6  |
|----------------|----------------|------------|------------|------------|------------|------------|------------|
| ENSG00000160932.10 | -1.003274298   | 5          | background | 5          | 4          | background | 3          |
| ENSG00000160972.9   | 1.004817879    | 5          | background | 4          | background | 3          |
| ENSG00000161544.9   | 2.056094559    | background | 5          | background | 4          |
| ENSG00000161938.10  | -1.519604486   | 5          | 5          | 5          | 4          | background | 3          |
| ENSG00000161835.10  | 1.588129621    | background | background | 4          | 4          |
| ENSG00000161860.7   | -3.116222255   | 5          | background | background | 4          |
| ENSG00000161896.11  | 3.81636751     | 5          | background | 5          |
| ENSG00000162241.12  | 1.348080653    | background | background | 4          |
| ENSG00000162458.12  | -1.18044923    | 5          | 4          | background | 3          |
| ENSG00000162490.6   | 1.859491505    | background | background | 4          | 3          |
| ENSG00000162512.15  | -1.285494423   | 5          | background | background | 4          |
| ENSG00000162543.5   | -2.101654847   | NA         | background | 4          | 4          |
| ENSG00000162572.20  | 1.242429446    | background | background | 3          |
| ENSG00000162817.6   | 1.372820716    | NA         | background | 4          | 4          |
| ENSG00000162924.13  | -1.346384128   | background | 5          | 4          | 4          |
| ENSG00000162946.21  | -1.28302309    | 5          | background | background | 3          |
| ENSG00000163083.5   | -1.240131329   | NA         | background | 5          | 5          |
| ENSG00000163093.11  | -1.315057926   | background | background | 3          | 3          |
| ENSG00000163121.9   | 1.624071428    | NA         | background | 5          | 3          |
| ENSG00000163453.11  | -1.14363002    | background | background | 4          |
| ENSG00000163467.11  | 1.061949098    | NA         | background | 5          |
| ENSG00000163577.7   | -1.331184415   | background | 3          | background | 3          |
| ENSG00000163803.12  | -1.596984838   | 4          | background | background | 3          |
| ENSG00000163803.12  | -1.596984838   | background | background | 3          |
| ENSG00000163888.3   | 1.656923595    | NA         | background | 5          |
| ENSG00000163989.9   | -1.748673923   | background | background | 3          | 3          |
| ENSG00000163996.9   | 1.95928764     | 5          | background | background | 4          |
| ENSG00000163996.9   | 1.95928764     | 5          | background | background | 4          |
| ENSG00000164171.10  | -1.34592512    | background | background | 4          | 4          |
| ENSG00000164398.12  | -1.169832489   | 5          | background | background | 3          |
| ENSG00000164483.16  | -2.261579471   | background | 5          | background | 4          |
| ENSG00000164512.17  | 1.329921031    | 5          | background | background | 3          |
| ENSG00000164604.12  | 2.466206073    | background | background | 5          |
| ENSG00000164684.13  | -1.350018653   | background | background | 4          | 3          |
| ENSG00000164713.9   | 1.109024943    | background | background | 4          |
| ENSG00000164742.14  | 1.43169413     | background | background | 5          | 2          |
| ENSG00000164756.12  | 4.223447867    | 5          | NA         | 5          | 3          |
| ENSG00000164849.9   | -1.130306685   | NA         | background | 4          |
| ENSG00000164898.12  | 1.007648283    | NA         | background | 5          | 5          |
| ENSG00000164932.12  | -1.158354867   | background | background | 4          |
| ENSG00000164938.13  | 1.316595251    | background | background | 5          | 4          |
| Gene ID | Score   | Gene 1 | Gene 2 | Gene 3 | Gene 4 | Gene 5 |
|---------|---------|--------|--------|--------|--------|--------|
| ENSG00000164946.19 | -1.036074606 | 4   | 5   | NA   | 3   |
| ENSG00000165272.14 | 1.175777684 | background | background | 5   | 4   |
| ENSG00000165449.11 | 1.280481528 | 5   | background | background | 5   | 3   |
| ENSG00000165471.6 | -1.31989175 | NA | background | background | 5   |
| ENSG00000165478.6 | -1.027873831 | 5   | background | background | 5   | 4   |
| ENSG00000165643.10 | 1.650697258 | background | background | background | 4   |
| ENSG00000165828.14 | 1.2003288 | background | background | background | 4   |
| ENSG00000165949.12 | -4.908061443 | background | background | background | 3   |
| ENSG00000166035.10 | 1.013861614 | background | background | background | 3   |
| ENSG00000166126.10 | 1.490664662 | 5   | background | background | 5   | 4   |
| ENSG00000166147.13 | 1.141868471 | background | 4   | 5   | 3   |
| ENSG00000166311.9 | 1.14239906 | background | background | background | 5   |
| ENSG00000166359.10 | -1.743742668 | 5   | background | background | 4   |
| ENSG00000166401.14 | 1.27387714 | background | background | background | 4   |
| ENSG00000166405.14 | 1.388735729 | 5   | background | background | 4   | 4   |
| ENSG00000166415.14 | 1.002955135 | 5   | background | background | 4   |
| ENSG00000166479.9 | -1.068901762 | background | background | background | 4   |
| ENSG00000166510.13 | -1.596359581 | background | background | background | 4   |
| ENSG00000166743.9 | 1.676174907 | 5   | background | background | 5   | 2   |
| ENSG00000166816.13 | 1.321081298 | 5   | background | background | 4   |
| ENSG00000166819.11 | 1.861247445 | 5   | 5   | background | 4   |
| ENSG00000167037.18 | -2.962787816 | 5   | background | background | 5   | 4   |
| ENSG00000167244.18 | 1.566854903 | background | background | background | 4   |
| ENSG00000167378.8 | 1.174784535 | background | background | background | 4   | 4   |
| ENSG00000167395.10 | -1.252394553 | 5   | background | background | 4   | 4   |
| ENSG00000167508.11 | 1.079842929 | 5   | background | background | 4   | 4   |
| ENSG00000167525.13 | -1.509732735 | background | background | background | 5   | 4   |
| ENSG00000167555.13 | 1.129822322 | 5   | background | background | 4   |
| ENSG00000167578.17 | 1.064174822 | 5   | background | background | 4   |
| ENSG00000167600.13 | -2.15079291 | 5   | 5   | background | 5   |
| ENSG00000167601.11 | -1.659408982 | 5   | background | background | 4   |
| ENSG00000167625.10 | -1.224462143 | background | 5   | background | 5   |
| ENSG00000167701.13 | 1.187556583 | 5   | background | background | 5   | 5   |
| ENSG00000167741.10 | 1.513990956 | background | background | background | 4   | 4   |
| ENSG00000167755.14 | -1.95875987 | background | background | background | 4   |
| ENSG00000167767.13 | -1.594759252 | background | background | background | 5   | 3   |
| ENSG00000167772.11 | 1.319560668 | background | background | background | 4   |
| ENSG00000167920.8 | 1.28041044 | background | background | background | 4   |
| ENSG00000167964.12 | 1.447920706 | background | background | background | 4   | 4   |
| ENSG00000167971.15 | -1.335431724 | 3   | background | background | 5   | 3   |
| ENSG00000167996.15 | 1.073728274 | NA | background | background | 5   |
| ID             | 1.183761652 | NA     | background | background | 5 | 3 |
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| ENSG00000168077.13 | -1.634127885 | background | background | background | 4 |
| ENSG00000168502.17 | -1.605901064 | 5 | background | background | 2 |
| ENSG00000168646.12 | -1.151854595 | 5 | background | background | 4 |
| ENSG00000168758.10 | -1.012636527 | 5 | background | background | 4 |
| ENSG00000168806.7 | -1.05130909 | NA | background | background | 5 |
| ENSG00000168874.12 | -1.451959113 | NA | 4 | background | 4 |
| ENSG00000169026.12 | 1.44963783 | background | background | background | 5 |
| ENSG00000169174.10 | 1.082055372 | background | background | background | 4 |
| ENSG00000169247.11 | -2.48454812 | 5 | background | background | 3 |
| ENSG00000169403.11 | -1.344918761 | NA | background | background | 3 |
| ENSG00000169507.9 | -1.298069337 | 5 | background | background | 4 |
| ENSG00000169629.11 | -1.179725726 | background | background | background | 4 |
| ENSG00000169679.14 | -1.093012151 | background | background | background | 4 |
| ENSG00000169752.16 | 1.243400207 | background | background | background | 3 |
| ENSG00000169926.10 | 1.23978654 | NA | background | background | 3 |
| ENSG00000170099.5 | 1.749561598 | background | background | background | 5 |
| ENSG00000170271.10 | 1.032757705 | background | background | background | 4 |
| ENSG00000170324.20 | 2.419996235 | 4 | background | background | 3 |
| ENSG00000170345.9 | 3.988986316 | NA | background | background | 5 |
| ENSG00000170396.7 | -1.652670201 | background | background | background | 3 |
| ENSG00000170579.16 | 3.357857874 | background | background | background | 2 |
| ENSG00000170835.14 | 1.539879379 | 5 | background | background | 4 |
| ENSG00000170855.3 | 1.0486334 | NA | background | background | background |
| ENSG00000171435.13 | 2.22924568 | 5 | 4 | background | 4 |
| ENSG00000171502.14 | -2.928410268 | background | background | background | 4 |
| ENSG00000171564.11 | 1.734684057 | background | background | background | 5 |
| ENSG00000171747.8 | 1.118501968 | 5 | 5 | background | 4 |
| ENSG00000171766.15 | -1.577438575 | background | background | background | 4 |
| ENSG00000171791.12 | -1.16394965 | 5 | 5 | 5 | 3 |
| ENSG00000171787.20 | -1.247220894 | background | 5 | 5 | 3 |
| ENSG00000171992.12 | -1.088098394 | 5 | background | background | 4 |
| ENSG00000172058.15 | 1.922917348 | background | background | background | 4 |
| ENSG00000172159.15 | -1.13779892 | background | background | background | 2 |
| ENSG00000172167.7 | -1.121893219 | background | background | background | 4 |
| ENSG00000172379.20 | 2.966182223 | 5 | background | background | 3 |
| ENSG00000172478.17 | 1.800345102 | background | background | background | 5 |
| ENSG00000172482.4 | 1.90608247 | 5 | 5 | background | 4 |
| ENSG00000172602.9 | 1.05105906 | background | 5 | 5 | 4 |
| ENSG00000172738.11 | 1.296052713 | 5 | background | background | 4 |
| ENSG00000172927.3 | -1.124583387 | background | background | background | 3 |
| Gene ID       | Value 1  | Value 2  | Value 3  | Value 4 | Value 5 | Value 6  |
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| ENSG00000173041.11 | -1.387039455 | background | background | 5      | 4       |          |
| ENSG00000173436.13  | 1.061763338   | background | background | 5      | 4       |          |
| ENSG00000173559.12  | -1.102030692   | background | background | 5      |         |          |
| ENSG00000173702.7    | -3.306802784   | background | background | 5      |         |          |
| ENSG00000173714.7    | 2.551826049    | NA        | 5         | 4      | 4       |          |
| ENSG00000173762.7    | 1.402640838    | background | background | 5      |         |          |
| ENSG00000173812.10   | 1.052683667    | background | background | 3      | 3       |          |
| ENSG00000173918.14   | -2.717119555   | background | background | 4      |         |          |
| ENSG00000173926.5    | 1.901242767    | background | background | 5      | 3       |          |
| ENSG00000173930.8    | 1.039438979    | background | background | 5      | 4       |          |
| ENSG00000173947.13   | 1.665219826    | background | background | 4      | 4       |          |
| ENSG00000174130.12   | -1.967338022   | NA        | background | 5      |         |          |
| ENSG00000174307.6    | 1.041753134    | background | background | 4      |         |          |
| ENSG00000174358.15   | -5.98552645    | 5         | background | 4      | 3       |          |
| ENSG00000174502.18   | -1.170402144   | background | background | 5      | 4       |          |
| ENSG00000174567.7    | 1.126696876    | 5         | background | 3      |         |          |
| ENSG00000174827.13   | 1.028230975    | 5         | background | 4      |         |          |
| ENSG00000175066.15   | -1.27807652    | background | background | 4      |         |          |
| ENSG00000175104.14   | -1.079387224   | 5         | background | 5      |         |          |
| ENSG00000175305.17   | -1.75806512    | background | background | 4      |         |          |
| ENSG00000175505.10   | -1.199900272   | background | background | 5      | 4       |          |
| ENSG00000175538.10   | -1.787252046   | background | background | 5      | 4       |          |
| ENSG00000175600.15   | 1.137077027    | background | background | 2      |         |          |
| ENSG00000175787.16   | -1.05764378    | 5         | background | 4      |         |          |
| ENSG00000175938.6    | 1.417712844    | NA        | background | 5      |         |          |
| ENSG00000176046.8    | 2.987291429    | NA        | 5         | 4       | 4       |          |
| ENSG00000176428.5    | 1.175702504    | 5         | background | 4      | 4       |          |
| ENSG00000176887.6    | 3.095088406    | NA        | background | 4      | 4       |          |
| ENSG00000177663.13   | -1.165332089   | background | background | 5      | 3       |          |
| ENSG00000177675.8    | 1.020046035    | background | background | 4      |         |          |
| ENSG00000177873.12   | -1.375786747   | 5         | background | 4      | 4       |          |
| ENSG00000178297.12   | 1.13380451    | 5         | NA        | 5       | 4       |          |
| ENSG00000178502.5    | -1.811650814   | NA        | background | 4      | 5       |          |
| ENSG00000178537.9    | 1.73877597    | background | background | 5      | 4       |          |
| ENSG00000178573.6    | 1.823054045    | NA        | 5         | background | 4     |          |
| ENSG00000178809.7    | 1.645136962    | NA        | background | 5      | 4       |          |
| ENSG00000178922.16   | 2.290932406    | 5         | background | 4      | 4       |          |
| ENSG00000179241.12   | -1.860145661   | background | background | 5      | 3       |          |
| ENSG00000179761.11   | 1.012611563    | NA        | 5         | 5       | 4       |          |
| ENSG00000179862.6    | 1.037893576    | NA        | background | 4      |         |          |
| ENSG00000179913.10   | -1.531918129   | background | background | 5      | 4       |          |
| Gene ID | Value 1   | Value 2   | Value 3   | Value 4   | Value 5   |
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| ENSG00000180061.9 | 2.340845362 | background | background | background | 3         |
| ENSG00000180263.13 | -1.430630343 | background | background | background | 4         |
| ENSG00000180532.10 | -1.430630343 | background | background | background | 4         |
| ENSG00000180644.7 | -1.430630343 | background | background | background | 4         |
| ENSG00000180535.3 | -1.430630343 | background | background | background | 4         |
| ENSG00000180855.15 | -2.171849397 | background | background | background | 3         |
| ENSG00000180938.5 | -1.371347679 | background | background | background | 5         |
| ENSG00000180953.11 | -1.371347679 | background | background | background | 4         |
| ENSG00000181450.17 | -1.029127274 | background | background | background | 3         |
| ENSG00000182141.10 | -1.43770798 | background | background | background | 5         |
| ENSG00000182150.15 | -1.095502937 | background | background | background | 4         |
| ENSG00000182326.14 | 1.973078341 | background | background | background | 3         |
| ENSG00000182459.4 | -1.533734757 | background | background | background | 4         |
| ENSG00000182472.8 | 1.071601106 | background | background | background | 3         |
| ENSG00000182687.3 | 1.06929561 | background | background | background | 5         |
| ENSG00000182700.4 | 1.140002041 | background | background | background | 5         |
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| ENSG00000183018.8 | -1.462908626 | background | background | background | 4         |
| ENSG00000183072.9 | 2.10046405 | background | background | background | 5         |
| ENSG00000183134.4 | 1.437653978 | background | background | background | 4         |
| ENSG00000183172.8 | 1.02614005 | background | background | background | 5         |
| ENSG00000183578.6 | 1.249330707 | background | background | background | 4         |
| ENSG00000183747.11 | 1.566896881 | background | background | background | 4         |
| ENSG00000183808.11 | -1.096642753 | background | background | background | 5         |
| ENSG00000183828.14 | 1.632527607 | background | background | background | 4         |
| ENSG00000183876.8 | -1.871193285 | background | background | background | 3         |
| ENSG00000184060.10 | -1.936626298 | background | background | background | 5         |
| ENSG00000184227.7 | 1.017289058 | background | background | background | 5         |
| ENSG00000184384.13 | -1.19648543 | background | background | background | 4         |
| ENSG00000184454.6 | 1.136668092 | background | background | background | 4         |
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| ENSG00000185040.13 | -1.307141277 | background | background | background | 3         |
| ENSG00000185187.12 | 1.968850108 | background | background | background | 4         |
| ENSG00000185261.14 | -1.182900958 | background | background | background | 4         |
| ENSG00000185432.11 | 1.576944272 | background | background | background | 5         |
| ENSG00000185561.9 | 1.64948701 | background | background | background | 4         |
| ENSG00000185633.10 | -2.152178065 | background | background | background | 5         |
| ENSG00000185669.5 | 1.9634454 | background | background | background | 5         |
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| ENSG00000185909.14 | 1.39555368 | NA | background | 5 | 4 |
| ENSG00000185920.15 | -1.0786962 | 5 | background | 4 | 4 |
| ENSG00000185947.14 | -1.87521211 | 5 | background | 3 | 3 |
| ENSG00000186198.3 | 2.17576774 | 5 | 5 | 4 |
| ENSG00000186472.19 | 2.300835008 | 5 | 5 | 3 |
| ENSG00000186919.12 | 3.447215722 | 5 | background | 3 | 3 |
| ENSG00000186994.11 | 1.779216608 | 5 | background | 4 | 4 |
| ENSG00000187607.16 | 1.658622446 | 5 | background | 3 | 3 |
| ENSG00000187808.4 | 1.084891352 | NA | background | 5 | 5 |
| ENSG00000188026.12 | 1.039722425 | 5 | background | 4 | 4 |
| ENSG00000188158.14 | 4.215548794 | background | 4 | 3 |
| ENSG00000188176.11 | -1.560817207 | background | 5 | 4 |
| ENSG00000188257.10 | -1.412919097 | background | 4 | 4 |
| ENSG00000188290.10 | 1.349826817 | background | 5 | 4 |
| ENSG00000188549.12 | -1.234692138 | 5 | background | 5 | 4 |
| ENSG00000188611.14 | -1.181013783 | 5 | NA | 5 | 4 |
| ENSG00000188629.11 | 3.138132391 | 5 | background | 5 | 4 |
| ENSG00000188783.5 | -1.449157519 | 4 | 5 | 5 | 4 |
| ENSG00000196081.9 | -1.823962098 | background | 5 | 4 |
| ENSG00000196188.10 | -1.253266592 | background | 4 | 4 |
| ENSG00000196391.10 | 1.129442686 | background | 5 | 4 |
| ENSG00000196417.12 | -1.194765327 | background | 4 | 4 |
| ENSG00000196517.11 | 1.496183271 | 4 | background | 5 | 4 |
| ENSG00000196544.7 | 1.122872375 | NA | background | 4 | 4 |
| ENSG00000196562.14 | 1.102852908 | 5 | background | 3 | 3 |
| ENSG00000196604.12 | -2.1800521 | 5 | 5 | 3 |
| ENSG00000196660.10 | 5 | 1.55115704 | background | 3 | 3 |
| ENSG00000196663.15 | -1.048341468 | 5 | background | 4 | 4 |
| ENSG00000196743.8 | 1.009159843 | NA | background | 5 | 4 |
| ENSG00000196782.12 | -1.743967652 | 5 | 5 | 3 |
| ENSG00000197020.10 | -1.03567614 | background | 5 | 4 |
| ENSG00000197024.8 | -1.079067052 | background | 5 | 4 |
| ENSG00000197093.10 | 2.002946517 | background | 5 | 4 |
| ENSG00000197124.11 | 1.127075296 | background | 5 | 4 |
| ENSG00000197191.4 | 1.524029647 | NA | background | 5 | 4 |
| ENSG00000197279.3 | 1.127940496 | background | 5 | 4 |
| ENSG00000197321.14 | -1.376982202 | 5 | background | 3 | 3 |
| ENSG00000197329.11 | -1.177431703 | background | 4 | 4 |
| ENSG00000197461.13 | 1.244900301 | background | 4 | 4 |
| Ensembl Transcripts | log2 Fold Change | Gene Expression | Gene Expression | Gene Expression | Gene Expression |
|--------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| ENSG00000197903.7  | 1.073844481     | NA              | NA              | NA              | background      |
| ENSG00000198053.11 | 1.03336368      | background      | background      | background      | 3               |
| ENSG00000198064.13 | 1.711199301     | background      | background      | background      | 5               |
| ENSG00000198203.9  | 2.294869758     | 5               | background      | 3               |
| ENSG00000198298.12 | -1.39483718     | 5               | background      | 4               |
| ENSG00000198315.10 | -1.014661531    | 5               | background      | 5               |
| ENSG00000198342.5  | -1.112108825    | 5               | 5               | background      | 4               |
| ENSG00000198363.17 | -1.072608439    | background      | background      | 4               |
| ENSG00000198417.6  | 1.609249922     | NA              | background      | 4               |
| ENSG00000198466.11 | -1.56314394     | 5               | background      | 4               |
| ENSG00000198513.11 | 1.681935492     | background      | background      | 4               |
| ENSG00000198535.5  | -1.454442032    | NA              | background      | 4               |
| ENSG00000198538.10 | 1.40991696      | background      | background      | 2               |
| ENSG00000198569.9  | 1.085594303     | 5               | background      | 4               |
| ENSG00000198624.12 | 1.371981147     | background      | background      | 3               |
| ENSG00000198756.10 | -1.400819669    | background      | background      | 5               |
| ENSG00000198780.11 | -1.38185073     | background      | background      | 4               |
| ENSG00000198840.2  | 1.045778612     | NA              | NA              | background      |
| ENSG00000198848.12 | 1.627719387     | 5               | background      | 3               |
| ENSG00000198865.9  | 1.711053152     | background      | background      | 5               |
| ENSG00000198870.7  | 1.859430236     | 5               | background      | 3               |
| ENSG00000198885.9  | -1.090256427    | NA              | background      | 5               |
| ENSG00000198959.11 | -1.52774961     | background      | background      | 3               |
| ENSG00000204103.3  | 2.55625922      | NA              | background      | 5               |
| ENSG00000204152.6  | -1.511215656    | background      | NA              | 5               |
| ENSG00000204385.10 | 1.076945833     | 5               | background      | 3               |
| ENSG00000204386.10 | 1.096055294     | background      | background      | 5               |
| ENSG00000204519.10 | -1.149096201    | background      | background      | 4               |
| ENSG00000204524.6  | -1.18056722     | background      | NA              | 5               |
| ENSG00000204682.5  | 1.873595449     | 5               | 5               | 4               |
| ENSG00000204695.4  | 1.799364441     | NA              | background      | 5               |
| ENSG00000204978.2  | 1.850044576     | NA              | background      | 5               |
| ENSG00000205111.8  | -2.10578264     | background      | NA              | 4               |
| ENSG00000205436.7  | 1.08371592      | 4               | background      | 3               |
| ENSG00000205669.2  | 6.350353935     | NA              | background      | 5               |
| ENSG00000205670.10 | 3.678541781     | background      | background      | 4               |
| ENSG00000206140.10 | 1.017292805     | background      | background      | 5               |
| ENSG00000206190.11 | -1.016736819    | 5               | background      | 3               |
| ENSG00000211452.10 | 1.443510186     | background      | background      | 4               |
| ENSG00000213886.3  | 1.050258127     | NA              | background      | 5               |
| ENSG00000213999.15 | 1.458590474     | background      | background      | 4               |
| Gene ID          | log2 Fold Change | Value   | Column 1 | Column 2 | Column 3 | Column 4 | Column 5 | Column 6 |
|-----------------|------------------|---------|----------|----------|----------|----------|----------|----------|
| ENSG00000214140 | 1.305700458      | NA      | 5        | 5        | 4        |
| ENSG00000214456 | 1.250577837      | background | 5        | 3        |
| ENSG00000214654 | -1.95737816      | NA      | background | background | 4        |
| ENSG00000214960 | 1.72332791       | background | NA      | background | 3        |
| ENSG00000215695 | -1.381384876     | NA      | NA      | NA      | background | background |
| ENSG00000215790 | -1.067219846     | background | background | background | 4        |
| ENSG00000215915 | 1.011539713      | background | 4        | 5        | 3        |
| ENSG00000221883 | 1.150788682      | NA      | background | background | background |
| ENSG00000221947 | 1.353857732      | background | 5        | background | 4        |
| ENSG00000221986 | 1.936735922      | 5        | background | background | 4        |
| ENSG00000223572 | -2.059742375     | background | 4        | background | 4        |
| ENSG00000223953 | 2.522812933      | 5        | background | 3        | 3        |
| ENSG00000226124 | 1.169486684      | background | background | background | 4        |
| ENSG00000226733 | 1.85375049       | NA      | background | background | 4        |
| ENSG00000228198 | 1.374860171      | NA      | background | background | 5        |
| ENSG00000233198 | 1.29576146       | background | background | background | 4        |
| ENSG00000233276 | 1.360377575      | NA      | background | background | background |
| ENSG00000233822 | 1.020329686      | NA      | NA      | background | 5        |
| ENSG00000234616 | -1.05192841      | 5        | 5        | 4        | 4        |
| ENSG00000235098 | 1.256261463      | background | background | 5        | 4        |
| ENSG00000235961 | 2.896502821      | NA      | background | 5        | 4        |
| ENSG00000236279 | 1.874589773      | background | background | 5        | 3        |
| ENSG00000239713 | 1.074533188      | background | background | background | 4        |
| ENSG00000240038 | 1.74627612       | background | background | background | 4        |
| ENSG00000240891 | 1.123649616      | background | 5        | 4        | 4        |
| ENSG00000241635 | -1.491529737     | background | background | background | 4        |
| ENSG00000242220 | 1.512796855      | background | 4        | background | 4        |
| ENSG00000242265 | 1.073929101      | NA      | background | background | 4        |
| ENSG00000242715 | -1.129670388     | background | background | background | 4        |
| ENSG00000243056 | 1.383865748      | NA      | background | 5        | 5        |
| ENSG00000243910 | 2.660243207      | background | 5        | 4        | 4        |
| ENSG00000243955 | 2.404539591      | background | background | background | 5        |
| ENSG00000244067 | 1.969397787      | background | background | background | 5        |
| ENSG00000244462 | -1.26124395      | NA      | 5        | background | 4        |
| ENSG00000246922 | 1.681633867      | NA      | background | background | 4        |
| ENSG00000250264 | -3.00675625      | 5        | background | NA      | 3        |
| ENSG00000254402 | 1.274108556      | background | background | background | 5        |
| ENSG00000254692 | 1.331647766      | 5        | background | background | 3        |
| ENSG00000254827 | 1.68993423       | NA      | background | background | 3        |
| ENSG00000255071 | 2.47477896       | 5        | background | background | 3        |
| ENSG00000255398 | 1.640279785      | NA      | background | background | background |
| ENSG00000256771.3 | -1.228706024 | background | background | background | 4 |
|------------------|--------------|------------|------------|------------|---|
| ENSG00000257315.2 | -1.224668695 | background | background | background | 4 |
| ENSG00000257411.1 | -9.889911103 | background | background | NA         | 4 |
| ENSG00000259030.6 | -3.45710647  | background | background | NA         | 2 |
| ENSG00000259417.2 | 1.605668433  | background | background | 5          | 4 |
| ENSG00000260001.6 | 1.625004535  | 3          | background | background | 3 |
| ENSG00000260342.2 | -1.011229824 | background | background | NA         | 5 |
| ENSG00000260428.2 | 2.374389561  | NA         | background | background | 5 |
| ENSG00000263002.7 | -1.002307554 | 5          | background | background | 4 |
| ENSG00000265303.1 | 3.35038357   | background | NA         | background | 4 |
| ENSG00000269343.6 | -1.148510932 | background | background | NA         | 4 |
| ENSG00000269699.5 | -1.554994996 | 5          | background | 2          | |
| ENSG00000270136.5 | 3.177291125  | background | background | 5          | 4 |
| ENSG00000270276.2 | 1.653665606  | NA         | background | background | 5 |
| ENSG00000271824.1 | 2.032841905  | NA         | 5          | 5          | 5 |
| ENSG00000272196.2 | 1.746357032  | NA         | background | background | 5 |
| ENSG00000275183.1 | -1.370323057 | NA         | background | 4          | 4 |
| ENSG00000275395.5 | -1.019402128 | 5          | NA         | NA         | 3 |
| ENSG00000275740.1 | -2.26777607  | background | 4          | background | 2 |
| ENSG00000275832.4 | -2.680172308 | 5          | background | 5          | 3 |
| ENSG00000276180.1 | 1.408525263  | NA         | background | background | 5 |
| ENSG00000278828.1 | 1.3392763    | NA         | background | background | 3 |
| ENSG00000280443.1 | 4.514286904  | 3          | NA         | 3          | 3 |
| ENSG00000280987.4 | -1.148011763 | background | background | 5          | |
| ENSG00000281028.1 | -5.186521713 | background | background | 4          | |
| ENSG00000284461.1 | 2.186108668 | background | background | 4          | |
| ENSG00000047457.13| -1.004398356 | 5          | background | 5          | 3 |
| ENSG00000061656.9 | -1.233029301 | 5          | background | 5          | 5 |
| ENSG00000079308.16| -1.188642664 | 5          | background | 5          | 2 |
| ENSG00000101162.3 | -1.265931984 | 5          | background | 5          | 5 |
| ENSG00000104765.15| -1.083501881 | 5          | background | 5          | 4 |
| ENSG00000107159.12| -2.200804882 | 5          | background | 4          | |
| ENSG00000110245.11| -1.093253424 | background | background | background | |
| ENSG00000111716.12| -1.765702224 | 5          | background | 4          | |
| ENSG00000112494.9 | -1.143504562 | 5          | 5          | 4          | |
| ENSG00000113083.13| -1.162557152 | background | background | 4          | 4 |
| ENSG00000123999.4 | -1.313784432 | NA         | background | background | 5 |
| Gene ID           | Log2 Fold Change | Q-value | Background | P-value | Background |
|------------------|------------------|---------|------------|---------|------------|
| ENSG00000129521.13 | -1.397093369     | 5       | background | 5       | 0          |
| ENSG00000130653.15 | -1.082923417     | 5       | background | 5       | 3          |
| ENSG00000131482.9  | -1.722942209     | background | background | 4       |
| ENSG00000144785.8  | -1.196749992     | background | NA         | 5       |
| ENSG00000146678.9  | -1.048562383     | background | background | 5       |
| ENSG00000161958.10 | -1.032542584     | background | background | 5       |
| ENSG00000163586.9  | -1.157491726     | background | background | 5       |
| ENSG00000183054.11 | 1.284518807      | 4       | background | 5       | 0          |
| ENSG00000205670.10 | 3.147709613      | background | background | 4       |
| ENSG00000243207.6  | 1.008413634      | 4       | NA         | NA      | 4          |
| ENSG00000266964.5  | -1.433888712     | background | background | 5       |
| ENSG00000274944.4  | -1.391305681     | background | background | 5       |
| ENSG00000002745.12 | 4.248899831      | 5       | background | 5       | 4          |
| ENSG00000005884.17 | -1.18349169      | 5       | background | 5       | 4          |
| ENSG00000006747.14 | 1.670808431      | 5       | background | 4       | 4          |
| ENSG00000006837.11 | 1.125966291      | background | background | 4       |
| ENSG00000010379.15 | 1.773910247      | background | background | 4       |
| ENSG00000012822.15 | -1.340212158     | 5       | background | 5       |
| ENSG00000013588.7  | -1.214961393     | background | background | 4       |
| ENSG00000019186.9  | -1.228019547     | background | background | 5       |
| ENSG00000021852.12 | -1.2135761       | 5       | 5          | background | 5       |
| ENSG00000027869.11 | -2.087548787     | 5       | background | 5       |
| ENSG00000028277.21 | 2.309020408      | background | background | 5       | 4          |
| ENSG00000031081.10 | 3.649739576      | 5       | background | 5       | 4          |
| ENSG00000042062.11 | 2.013299104      | background | background | 3       |
| ENSG00000047457.13 | -1.054278806     | 4       | background | 4       | 4          |
| ENSG00000049323.15 | -1.198251005     | 5       | background | background | 3       |
| ENSG00000053918.15 | 3.67181924       | background | background | 5       | 4          |
| ENSG00000057468.6  | 3.1263544        | background | background | 4       |
| ENSG00000058091.16 | 1.837296723      | background | background | 3       |
| ENSG00000063438.16 | 1.952079574      | 4       | background | 4       | 4          |
| ENSG00000067840.12 | 4.644821312      | 5       | background | 5       |
| ENSG00000068831.18 | 4.997715644      | 5       | background | 5       |
| ENSG00000068976.13 | 3.987099576      | 5       | background | 4       |
| ENSG00000069493.14 | 1.008124869      | 5       | background | 5       | 5          |
| ENSG00000070388.11 | 2.214565957      | background | background | 5       |
| ENSG00000070915.9  | -1.608303995     | background | background | 4       |
| ENSG00000072071.16 | 1.067509446      | background | background | 4       |
| ENSG00000075340.22 | 2.435672636      | 5       | 5          | 5       | 4          |
| ENSG00000075884.13 | 1.821481672      | background | background | 3       |
| ENSG00000076003.4  | -1.306833184     | 5       | background | 5       |
| Gene ID          | Log2 Fold Change | Background Score | subclasses | subclasses | subclasses |
|-----------------|-----------------|------------------|------------|------------|------------|
| ENSG00000078814.15 | 1.529555469     | background       | 5          | background | background |
| ENSG00000079308.16 | -1.195648947    | background       | 5          | background | background |
| ENSG00000080644.15 | 2.445886342     | background       | 5          | background | background |
| ENSG00000081148.11 | 2.46568277      | background       | 5          | background | background |
| ENSG00000081985.10 | 3.119009191     | background       | 5          | background | background |
| ENSG00000087077.13 | 1.838453838     | background       | 5          | background | background |
| ENSG00000087237.10 | 1.459195898     | background       | 5          | background | background |
| ENSG00000088881.20 | 2.18976563      | background       | 4          | background | background |
| ENSG00000089163.4  | 3.009986082     | background       | 4          | background | background |
| ENSG00000089180.10 | -1.448175964    | background       | 4          | background | background |
| ENSG00000090006.17 | -1.218906717    | background       | 4          | background | background |
| ENSG00000099866.14 | 1.215940274     | background       | 5          | background | background |
| ENSG00000100342.20 | -1.189415855    | background       | 4          | background | background |
| ENSG00000100353.17 | -1.218906717    | background       | 4          | background | background |
| ENSG00000100412.15 | -1.129794293    | background       | 3          | background | background |
| ENSG00000100461.17 | 1.266005673     | background       | 5          | background | background |
| ENSG00000100532.11 | 1.006955466     | background       | 5          | background | background |
| ENSG00000100628.11 | -1.416526072    | background       | 4          | background | background |
| ENSG00000100678.18 | 2.337039217     | background       | 4          | background | background |
| ENSG00000101160.13 | 3.703136022     | background       | 4          | background | background |
| ENSG00000101188.4  | -1.801424949    | background       | 4          | background | background |
| ENSG00000101460.12 | 2.554342476     | background       | 5          | background | background |
| ENSG00000101470.9  | 1.789324233     | background       | 3          | background | background |
| ENSG00000101811.13 | -1.032283299    | background       | 5          | background | background |
| ENSG00000101890.4  | 7.857132041     | background       | 4          | background | background |
| ENSG00000101977.19 | 3.1643156       | background       | 4          | background | background |
| ENSG00000102174.8  | 4.069271273     | background       | 4          | background | background |
| ENSG00000102890.14 | 1.201977538     | background       | 5          | background | background |
| ENSG00000103528.16 | 4.938988561     | background       | 4          | background | background |
| ENSG00000103647.12 | -1.403065804    | background       | 3          | background | background |
| ENSG00000104368.17 | -1.073030411    | background       | 5          | background | background |
| Chromosome Position | Gene ID | Expression Value | Background | Background | Background | Count |
|---------------------|---------|------------------|------------|------------|------------|-------|
| 79                  | ENSG00000105131.7 | 5.346489007 | background | background | background | 5     |
| 79                  | ENSG00000105499.13 | -1.299986475 | background | background | NA         | 4     |
| 79                  | ENSG00000105664.10 | 1.478748487  | 5          | background | background | 5     |
| 79                  | ENSG00000105737.9 | 3.00592924   | background | NA         | background | 4     |
| 79                  | ENSG00000105928.13 | -1.067252465 | background | background | background | 4     |
| 79                  | ENSG00000106077.18 | -1.076902177 | background | background | background | 4     |
| 79                  | ENSG00000106976.20 | -3.700158508 | background | background | background | 4     |
| 79                  | ENSG00000107147.12 | 3.304166098  | 5          | background | background | 4     |
| 79                  | ENSG00000107831.12 | 5.2383057    | background | background | background | 5     |
| 79                  | ENSG00000108244.16 | -1.372765319 | background | background | background | 5     |
| 79                  | ENSG00000108352.11 | 1.062687583  | background | NA         | 5         | 5     |
| 79                  | ENSG00000108576.9  | -1.030622566 | 5          | 5          | 5          | 4     |
| 79                  | ENSG00000108932.11 | -1.239007195 | background | background | background | 5     |
| 79                  | ENSG00000109063.14 | 1.24804707   | 5          | background | background | 5     |
| 79                  | ENSG00000109743.10 | 2.670818903  | background | 5          | background | 4     |
| 79                  | ENSG00000109927.9  | 2.012949064  | 4          | NA         | NA         | 3     |
| 79                  | ENSG00000110777.11 | 1.093674023  | background | background | background | 4     |
| 79                  | ENSG00000110876.9  | 3.973267676  | 5          | background | 5         | 5     |
| 79                  | ENSG00000111181.12 | 1.04957786   | background | background | 4         | 4     |
| 79                  | ENSG00000111186.12 | 3.672378709  | background | background | background | 4     |
| 79                  | ENSG00000111291.8  | 2.58184992   | NA         | NA         | NA         | 5     |
| 79                  | ENSG00000111678.10 | 1.071086103  | NA         | background | background | 5     |
| 79                  | ENSG00000111907.20 | 1.844774198  | background | background | 5         | 4     |
| 79                  | ENSG00000112276.13 | 1.538632621  | background | background | background | 4     |
| 79                  | ENSG00000112297.14 | -1.109264622 | background | background | background | 4     |
| 79                  | ENSG00000112299.7  | -1.304925505 | background | background | 5         | 4     |
| 79                  | ENSG00000112561.17 | 1.021074426  | background | background | background | 5     |
| 79                  | ENSG00000112599.8  | 2.625795093  | background | background | background | 5     |
| 79                  | ENSG00000114166.7  | 1.580052377  | background | background | background | 4     |
| 79                  | ENSG00000114656.10 | 1.26224132   | background | background | 5         | 3     |
| 79                  | ENSG00000114779.19 | -1.031509752 | background | background | 5         | 5     |
| 79                  | ENSG00000114904.12 | -1.062633181 | 5          | background | 5         | 4     |
| 79                  | ENSG00000115085.13 | 2.950726601  | 5          | background | background | 5     |
| 79                  | ENSG00000115107.19 | -1.011130167 | 5          | background | background | 4     |
| 79                  | ENSG00000115194.10 | 1.109032356  | background | background | 5         | 5     |
| 79                  | ENSG00000115266.11 | 1.416876871  | background | background | background | 4     |
| 79                  | ENSG00000115423.18 | 6.26771393   | 5          | background | background | 4     |
| 79                  | ENSG00000115839.17 | -1.005551699 | 5          | background | background | 5     |
| 79                  | ENSG00000115840.13 | -1.172890736 | background | background | background | 4     |
| 79                  | ENSG00000115850.9  | 4.627626998  | 5          | background | background | 5     |
| 79                  | ENSG00000116254.17 | 1.509395619  | 5          | background | background | 4     |
| Gene ID      | Log2 Fold Change | P-Value | Coding Region | Mapped Count |
|-------------|-----------------|---------|---------------|--------------|
| ENSG00000116544.11 | 3.372094599     | 5       | NA            | background   |
| ENSG00000116641.17 | -1.000463494    | background | NA            | background   |
| ENSG00000117245.12 | -1.501449467    | background | background   | background   |
| ENSG00000118402.5  | 2.848177675     | background | background   | background   |
| ENSG00000118495.18 | 2.773432949     | background | 5             | background   |
| ENSG00000118596.11 | 1.630367319     | background | background   | 5           |
| ENSG00000118972.1  | 1.45070714      | background | background   | 4           |
| ENSG00000119608.12 | 2.698949537     | NA       | NA            | 5           |
| ENSG00000119630.13 | 1.722930995     | background | background   | 5           |
| ENSG00000119737.5  | 1.684408485     | NA       | background   | background   |
| ENSG00000119782.13 | -1.191409823    | background | background   | background   |
| ENSG00000120539.14 | -1.086084175    | 4        | background   | background   |
| ENSG00000121053.5  | 2.845088597     | 5        | background   | background   |
| ENSG00000121380.12 | 3.195090453     | background | background   | 4           |
| ENSG00000121753.12 | 2.627092188     | 5        | background   | background   |
| ENSG00000122122.9  | 4.752179921     | background | 5             | 5           |
| ENSG00000122787.14 | 1.174950491     | background | background   | 4           |
| ENSG00000123106.10 | 1.117851405     | background | background   | 4           |
| ENSG00000123901.8  | 3.602300958     | background | 5             | 4           |
| ENSG00000124103.8  | 3.124123394     | NA       | 5             | background   |
| ENSG00000124126.13 | 2.345632081     | 5        | background   | 3           |
| ENSG00000124134.8  | 5.050748697     | background | 5             | 4           |
| ENSG00000124225.15 | 3.308284699     | background | 5             | background   |
| ENSG00000124635.8  | 1.396379041     | NA       | NA            | NA           |
| ENSG00000124664.10 | 4.826040974     | NA       | 5             | background   |
| ENSG00000125266.6  | 1.983237515     | background | 5             | 4           |
| ENSG00000125775.14 | 1.596093964     | 5        | background   | 5           |
| ENSG00000126005.16 | -1.028942773    | NA       | background   | 5           |
| ENSG00000126709.14 | 1.30907542      | NA       | background   | 4           |
| ENSG00000127507.17 | 1.76008585      | background | 5             | 4           |
| ENSG00000127585.11 | -1.702852869    | background | background   | 5           |
| ENSG00000128165.8  | 1.017432802     | background | 5             | 5           |
| ENSG00000128203.6  | 2.406954321     | NA       | background   | 5           |
| ENSG00000128285.4  | 1.691782421     | NA       | 5             | background   |
| ENSG00000128567.16 | 1.456618696     | background | background   | 5           |
| ENSG00000128805.14 | 3.432341105     | background | background   | background   |
| ENSG00000129159.7  | 3.051155258     | 5        | 5             | 4           |
| ENSG00000129244.8  | 2.675577574     | background | 5             | 5           |
| ENSG00000129749.3  | 3.537070398     | background | background   | background   |
| ENSG00000130032.15 | 2.054260184     | background | 5             | 5           |
| ENSG00000130052.13 | 2.460621203     | 5        | background   | 4           |
| Gene ID   | Log2 Expression | FDR  | Annotation | Alignment |
|----------|-----------------|------|------------|-----------|
| ENSG00000130413.15 | -1.642897581 | 4    | background | background |
| ENSG00000130528.11 | 1.096091167 | background | background | background |
| ENSG00000130584.10 | 1.045321764 | 5    | background | background |
| ENSG00000130592.15 | -1.218173305 | 4    | background | background |
| ENSG00000130751.9 | 1.235522366 | background | background | background |
| ENSG00000130783.13 | 2.395644114 | 5    | background | background |
| ENSG00000130876.11 | 2.178099319 | background | background | background |
| ENSG00000131016.16 | -1.572274228 | 3    | background | background |
| ENSG00000131269.15 | -1.147516327 | 5    | background | background |
| ENSG00000131379.9 | 2.09417055 | background | background | background |
| ENSG00000131480.8 | 2.059535155 | background | background | background |
| ENSG00000131650.13 | 1.161453763 | 5    | background | background |
| ENSG00000131849.11 | 1.300558751 | 5    | background | background |
| ENSG00000131914.10 | 3.168433153 | background | background | background |
| ENSG00000132429.9 | 3.564207787 | background | background | background |
| ENSG00000132692.18 | -1.218865375 | 5    | background | background |
| ENSG00000132837.14 | -1.01388212 | background | background | background |
| ENSG00000132938.19 | 5.047855861 | background | background | background |
| ENSG00000133124.11 | -1.517922654 | NA   | background | background |
| ENSG00000133401.15 | 4.383057472 | 5    | background | background |
| ENSG00000133665.12 | 1.445478386 | NA   | background | background |
| ENSG00000133816.13 | -1.345707113 | background | background | background |
| ENSG00000134242.15 | 3.584215388 | background | background | background |
| ENSG00000134363.11 | 1.405992986 | NA   | background | background |
| ENSG00000134398.14 | 1.21338479 | 5    | background | background |
| ENSG00000134762.16 | 1.713395206 | background | background | background |
| ENSG00000135045.6 | -1.081802443 | NA   | background | background |
| ENSG00000135074.15 | -1.323858113 | background | background | background |
| ENSG00000135097.6 | 3.298263281 | background | background | background |
| ENSG00000135116.9 | 3.911021074 | NA   | background | background |
| ENSG00000135318.11 | 1.286398683 | background | background | background |
| ENSG00000135423.12 | -1.192069152 | background | background | background |
| ENSG00000135439.11 | 2.444148537 | background | background | background |
| ENSG00000135678.11 | 2.436906902 | 4    | background | background |
| ENSG00000135736.5 | 1.277217256 | background | background | background |
| ENSG00000136002.18 | 2.825280952 | background | background | background |
| ENSG00000136114.15 | 2.535069958 | background | background | background |
| ENSG00000136319.11 | -1.024232226 | 5    | background | background |
| ENSG00000136367.13 | 1.273952499 | 5    | 5        | background |
| ENSG00000136535.14 | 3.714955979 | background | background | background |
| ENSG00000137103.17 | -1.151379378 | 5    | 5        | 5        | 4
| Gene ID                  | Value          | Column 1  | Column 2  | Value  | Column 1  |
|-------------------------|----------------|-----------|-----------|--------|-----------|
| ENSG00000137265.14      | 4.189277086    | background| background| 5      | 5         |
| ENSG00000137460.8       | 2.16799854     | background| background| 5      | 4         |
| ENSG00000137857.17      | 2.540804061    | background| background| 5      | 5         |
| ENSG00000137868.18      | 2.947004491    | background| background| 4      | 4         |
| ENSG00000137787.9       | 2.566263543    | background| background| 4      | 4         |
| ENSG00000137959.15      | 3.671860632    | background| background| 5      | 5         |
| ENSG00000137965.10      | 2.28017539     | background| background| 4      | 4         |
| ENSG00000138031.14      | 1.302127425    | 5         | background| 4      | 4         |
| ENSG00000138109.9       | 4.465482349    | 5         | background| 5      | 5         |
| ENSG00000138119.16      | -1.388704338   | 5         | NA        | 3      | 3         |
| ENSG00000138134.11      | 1.985748052    | 5         | background| 3      | 3         |
| ENSG00000138172.10      | 1.685451203    | 5         | background| 5      | 5         |
| ENSG00000138606.19      | 1.319477117    | 4         | background| 4      | 4         |
| ENSG00000138685.13      | 2.097584508    | background| background| 5      | 5         |
| ENSG00000138772.12      | -1.255110392   | background| background| 4      | 4         |
| ENSG00000139055.6       | -1.091498388   | background| background| 4      | 4         |
| ENSG00000139625.12      | 1.796426389    | 5         | background| 5      | 5         |
| ENSG00000139910.19      | 2.616199183    | background| background| 4      | 4         |
| ENSG00000140280.13      | 2.302902879    | 5         | background| 5      | 5         |
| ENSG00000140368.12      | 1.203398182    | background| background| 4      | 4         |
| ENSG00000140403.12      | 1.582953529    | background| background| 5      | 5         |
| ENSG00000140465.13      | 2.243950456    | 5         | background| 4      | 4         |
| ENSG00000140795.12      | 1.289952188    | 5         | background| 4      | 4         |
| ENSG00000140993.10      | 2.239639562    | NA        | 5         | background| 5         |
| ENSG00000141510.16      | -1.568757568   | background| background| 5      | 5         |
| ENSG00000141526.16      | -1.051036532   | NA        | background| 4      | 4         |
| ENSG00000141665.11      | 1.431252312    | background| background| 4      | 4         |
| ENSG00000141741.11      | -1.13404059    | background| background| 4      | 4         |
| ENSG00000141744.3       | 2.70390468     | 5         | background| 5      | 5         |
| ENSG00000141837.19      | 1.072482426    | 5         | background| 3      | 3         |
| ENSG00000141934.9       | 3.046360395    | 4         | background| 4      | 4         |
| ENSG00000142173.14      | 2.899033951    | background| background| 4      | 4         |
| ENSG00000142513.5       | 2.340249815    | 5         | NA        | 5      | 5         |
| ENSG00000142528.15      | 1.063139103    | background| background| 3      | 3         |
| ENSG00000142606.15      | 6.291745389    | background| background| 4      | 4         |
| ENSG00000142765.17      | -1.420722554   | 5         | background| 5      | 5         |
| ENSG00000143028.8       | 1.282051625    | background| background| 4      | 4         |
| ENSG00000143061.17      | 1.671329223    | background| background| 4      | 4         |
| ENSG00000143156.13      | -1.302497145   | 5         | background| 4      | 4         |
| ENSG00000143195.12      | 2.493109253    | 4         | background| 4      | 4         |
| Gene ID          | Score  | Rank | Background | Value | Background | Value |
|-----------------|--------|------|------------|-------|------------|-------|
| ENSG00000143257.11 | 1.181978868 | 5   | background | 4     | background |
| ENSG00000143387.12 | 1.323415517 | 5   | background | 5     | background |
| ENSG00000143797.11 | -2.008286546  | 5   | background | 5     | background |
| ENSG00000144130.11 | -3.388379275  | 5   | background | 5     | background |
| ENSG00000144214.9 | 2.987902509   | 5   | background | 5     | background |
| ENSG00000144426.18 | 1.122439425   | 3   | background | 3     | background |
| ENSG00000144451.18 | -1.004194424  | 3   | background | 3     | background |
| ENSG00000144619.14 | 4.558055977   | 5   | background | 5     | background |
| ENSG00000144668.11 | 3.08122076    | 4   | background | 3     | background |
| ENSG00000144712.11 | 2.59674354    | 4   | background | 4     | background |
| ENSG00000144857.14 | 3.773509536   | 3   | background | 3     | background |
| ENSG00000144893.12 | 2.736977064   | 5   | background | 5     | background |
| ENSG00000145020.15 | -1.14563843   | 5   | background | 5     | background |
| ENSG00000145029.13 | -1.229176438  | 4   | background | 4     | background |
| ENSG00000145198.14 | 1.954925547   | 5   | background | 5     | background |
| ENSG00000145920.14 | -1.139792685  | 5   | background | 5     | background |
| ENSG00000146049.1  | -1.030972138  | NA  | background | background | background |
| ENSG00000146215.13 | -1.836781056  | 5   | background | 5     | background |
| ENSG00000146233.7 | 2.601949523   | 3   | background | 3     | background |
| ENSG00000146453.12 | 2.82898796    | 5   | background | 5     | background |
| ENSG00000146555.18 | -2.550841226  | 5   | background | 3     | background |
| ENSG00000146592.16 | -1.965133565  | 5   | background | 4     | background |
| ENSG00000146678.9 | -1.016739523  | 5   | background | 4     | background |
| ENSG00000147082.17 | 2.345019916   | 4   | background | 4     | background |
| ENSG00000147174.11 | 2.206389333   | 4   | background | 4     | background |
| ENSG00000147180.16 | 1.172010175   | 5   | background | 5     | background |
| ENSG00000147439.12 | -1.064762824  | 4   | background | 4     | background |
| ENSG00000147606.8 | 2.658405807   | 4   | background | 4     | background |
| ENSG00000148156.7 | 3.94037504    | 5   | background | 5     | background |
| ENSG00000148341.17 | -1.480907762  | 4   | background | 4     | background |
| ENSG00000148408.12 | 3.699093193   | 5   | background | 3     | background |
| ENSG00000148483.8 | 1.915969794   | 4   | background | 4     | background |
| ENSG00000148677.6 | -1.440377631  | 5   | background | 5     | background |
| ENSG00000148735.14 | 2.164484326   | 5   | background | 4     | background |
| ENSG00000148798.10 | 1.650091283   | 4   | background | 4     | background |
| ENSG00000149043.16 | -1.212382302  | 5   | background | 5     | background |
| ENSG00000149124.10 | 1.112478005   | 5   | background | 4     | background |
| ENSG00000149260.15 | 2.450510621   | 3   | background | 3     | background |
| ENSG00000149292.16 | -1.447580372  | 4   | background | 4     | background |
| Gene ID               | Log2 Fold Change | p-value    | Chromosome | Gene Name | Description |
|----------------------|------------------|------------|------------|-----------|-------------|
| ENSGO00000149418.10  | 1.25436493       | background | 4          |           |             |
| ENSGO00000149781.12  | 3.648897125      | background | 4          |           |             |
| ENSGO00000150637.8   | 2.511318199      | background | 4          |           |             |
| ENSGO00000150782.11  | -1.850961609     | background | 5          |           |             |
| ENSGO00000151062.14  | -1.197638593     | background | 5          |           |             |
| ENSGO00000151360.9   | 3.478260448      | background | 4          |           |             |
| ENSGO00000151632.17  | 1.066324611      | background | 5          |           |             |
| ENSGO00000152049.6   | 2.305881723      | NA         | 4          |           |             |
| ENSGO00000152154.10  | 1.445048412      | background | 4          |           |             |
| ENSGO00000152315.4   | 2.74447232      | background | 3          |           |             |
| ENSGO00000152763.16  | 1.815048184      | background | 4          |           |             |
| ENSGO00000152926.14  | 1.482443666      | background | 5          |           |             |
| ENSGO00000153292.15  | 1.197389507      | background | 4          |           |             |
| ENSGO00000153404.14  | 2.166118713      | background | 5          |           |             |
| ENSGO00000153495.10  | 1.841185266      | background | 4          |           |             |
| ENSGO00000153531.13  | 1.218115351      | background | 4          |           |             |
| ENSGO00000153832.11  | -1.10622781      | background | 4          |           |             |
| ENSGO00000154118.12  | 2.578510954      | background | 4          |           |             |
| ENSGO00000154237.12  | 1.071487133      | background | 5          |           |             |
| ENSGO00000154548.8   | 1.861791062      | background | 5          |           |             |
| ENSGO00000155465.18  | 1.355383878      | background | 5          |           |             |
| ENSGO00000155962.12  | 2.347661555      | background | 3          |           |             |
| ENSGO00000156049.6   | 3.60664815       | background | 5          |           |             |
| ENSGO00000156096.13  | 1.125501751      | background | 4          |           |             |
| ENSGO00000156172.5   | -1.032860757     | background | 4          |           |             |
| ENSGO00000156427.7   | 5.988311377      | background | 4          |           |             |
| ENSGO00000156475.18  | 3.387183413      | background | 4          |           |             |
| ENSGO00000156535.13  | -1.249219343     | background | 5          |           |             |
| ENSGO00000157087.17  | 1.599498757      | background | 5          |           |             |
| ENSGO00000157456.7   | -1.864190031     | background | 3          |           |             |
| ENSGO00000157680.15  | 2.767257561      | NA         | 4          |           |             |
| ENSGO00000157833.12  | 1.411453788      | background | 5          |           |             |
| ENSGO00000157873.17  | -1.238284874     | background | 5          |           |             |
| ENSGO00000158008.9   | 2.551522393      | background | 5          |           |             |
| ENSGO00000158023.9   | 1.620002089      | background | 5          |           |             |
| ENSGO00000158270.11  | 1.965302803      | background | 4          |           |             |
| ENSGO00000158445.9   | 4.39504535       | NA         | 5          |           |             |
| ENSGO00000158859.9   | 1.153593678      | background | 5          |           |             |
| ENSGO00000158887.15  | 2.316477379      | background | 5          |           |             |
| ENSGO00000159199.13  | -1.223751107     | background | 5          |           |             |
| ENSGO00000159251.6   | 6.400158395      | background | 5          |           |             |
| ID          | Value       | Background 1 | Background 2 | Background 3 | Background 4 |
|-------------|-------------|--------------|--------------|--------------|--------------|
| ENSG00000159289.6 | 3.168968625 | background  | background  |             | 5            |
| ENSG00000159307.18 | 4.565442594 | background  | background  |             | 4            |
| ENSG00000159479.16 | -1.186887983 | background  | background  |             | 5            |
| ENSG00000159588.14 | 2.199482571  | background  | background  |             | 5            |
| ENSG00000159753.13 | 1.686918883 | background  | NA           | NA           | 4            |
| ENSG00000159958.6  | 1.531012813  | NA           | background  |             | 5            |
| ENSG00000160161.9   | 1.522373565 | background  | background  |             | 5            |
| ENSG00000160228.14 | -1.07838538  | 5           | background  | background  | 4            |
| ENSG00000160686.14 | 3.22848858   | background  | background  |             | 5            |
| ENSG00000161040.16 | 2.720902188 | background  | 5           | background  | 4            |
| ENSG00000161243.8  | -1.81224904  | background  | background  |             | 5            |
| ENSG00000161267.11 | 1.097126426  | background  | background  |             | 5            |
| ENSG00000161509.13 | 1.276775465  | background  | background  |             | 5            |
| ENSG00000161791.13 | 1.549818114  | 5           | background  |             | 3            |
| ENSG00000162086.14 | 2.374509386  | background  | background  |             | 5            |
| ENSG00000162490.6  | 1.778521513  | 5           | background  |             | 4            |
| ENSG00000162520.14 | -1.268295701 | 5           | background  |             | 5            |
| ENSG00000162542.13 | -1.191522562 | 5           | background  |             | 4            |
| ENSG00000162552.14 | 5.01161952   | background  | background  |             | 5            |
| ENSG00000162654.8  | 1.345032847  | 4           | background  |             | 4            |
| ENSG00000162733.16 | 2.513879299  | background  | background  |             | 3            |
| ENSG00000162738.5  | 3.807024812  | 5           | background  |             | 3            |
| ENSG00000162755.13 | -1.822862799 | background  | background  |             | background   |
| ENSG00000162849.15 | 1.841759159  | 4           | background  |             | 3            |
| ENSG00000162909.17 | -1.101525712 | background  | background  |             | 4            |
| ENSG00000163071.10 | -1.021954466 | background  | background  |             | 5            |
| ENSG00000163141.18 | 1.951780617  | 5           | background  |             | 5            |
| ENSG00000163406.10 | 1.790804958  | background  | background  |             | 5            |
| ENSG00000163501.6  | 2.912121863  | background  | NA           | background   |
| ENSG00000163803.12 | -1.26391337  | 5           | background  |             | 4            |
| ENSG00000163803.12 | -1.26391337  | 5           | background  |             | 4            |
| ENSG00000163817.15 | 3.208593678  | background  | background  |             | 5            |
| ENSG00000163918.10 | -1.306343903 | 5           | background  |             | 5            |
| ENSG00000164142.15 | 1.279057827  | background  | background  |             | 4            |
| ENSG00000164175.14 | 3.252750142  | 5           | background  |             | 5            |
| ENSG00000164294.13 | -1.886579683 | background  | background  |             | 5            |
| ENSG00000164309.14 | 2.976069905  | 5           | background  |             | 5            |
| ENSG00000164742.14 | 1.074257394  | background  | background  |             | 5            |
| ENSG00000164941.13 | -1.07596466  | background  | background  |             | 5            |
| ENSG00000165194.15 | 2.997512886  | 5           | NA           |             | 4            |
| ENSG00000165197.4 | 2.259028998 | background | background | background | 3 |
| ENSG00000165556.9 | 3.940815141 | background | background | 5 | background | 5 |
| ENSG00000165794.9 | 2.996624014 | background | background | background | background |
| ENSG00000165819.11 | -1.25551608 | 4 | background | background | 4 |
| ENSG00000165915.13 | -1.009877326 | background | background | background | 5 |
| ENSG00000165917.9 | 1.019635409 | background | background | background | 5 |
| ENSG00000166147.13 | 1.825893701 | 5 | background | background | 4 |
| ENSG00000166167.17 | -1.164883518 | background | background | 3 | 3 |
| ENSG00000166257.8 | 1.930853983 | 4 | background | background | 5 | 4 |
| ENSG00000166341.7 | 3.981983861 | 5 | background | background | 4 |
| ENSG00000166349.9 | -2.697079843 | NA | background | background | 5 |
| ENSG00000166682.10 | 2.260736381 | background | background | background | 5 |
| ENSG00000166856.2 | 3.32321737 | NA | background | background | 5 | 5 |
| ENSG00000166963.12 | 3.902738079 | 3 | background | background | 3 |
| ENSG00000167100.14 | 1.970136442 | background | background | 5 | 4 | 4 |
| ENSG00000167195.7 | 6.57144402 | 5 | NA | NA | 5 |
| ENSG00000167552.13 | -1.300580685 | background | background | background | background |
| ENSG00000167566.16 | 1.096065061 | 5 | background | background | 5 |
| ENSG00000167601.11 | -1.0101577 | background | background | background | 5 |
| ENSG00000167608.11 | 1.814683645 | 5 | background | background | 5 |
| ENSG00000167614.13 | 1.100745999 | background | background | background | 4 |
| ENSG00000167617.2 | 1.97562765 | NA | background | background | 5 |
| ENSG00000167702.11 | -1.318984095 | background | background | background | background |
| ENSG00000167767.13 | -1.052733107 | 5 | background | background | 5 | 5 |
| ENSG00000167861.15 | 1.001089445 | background | background | background | 5 |
| ENSG00000167972.13 | 2.064639015 | background | background | background | 3 |
| ENSG00000168263.8 | 2.937268134 | NA | background | background | 5 |
| ENSG00000168314.17 | 2.846726519 | NA | background | background | 3 | 3 |
| ENSG00000168393.12 | -1.0749322 | 5 | background | background | 5 |
| ENSG00000168490.13 | -1.648491658 | background | background | background | 5 | 5 |
| ENSG00000168528.11 | -1.092864694 | background | background | background | 5 |
| ENSG00000168743.12 | 1.400638272 | 5 | background | background | 5 | 5 |
| ENSG00000168878.16 | 4.860553219 | background | background | background | 5 | 5 |
| ENSG00000168961.16 | 2.616575114 | background | background | background | 5 |
| ENSG00000169031.18 | 1.745692923 | 4 | background | background | 5 | 4 |
| ENSG00000169184.5 | 2.691571486 | NA | background | background | 4 | 4 |
| ENSG00000169247.11 | -1.939819193 | background | background | background | 3 |
| ENSG00000169282.17 | 1.40791356 | background | background | background | 4 |
| ENSG00000169330.8 | 2.093567572 | background | background | background | 4 |
| ENSG00000169403.11 | -1.095936812 | NA | background | background | 4 |
| ENSG00000169429.10 | -1.378728597 | background | background | background | background |
| Gene ID          | Value              | Condition | Value2 | Condition | Value3 | Condition | Value4 | Condition | Value5 | Condition |
|-----------------|--------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| ENSG00000169550.12 | 1.190174129        | NA        | background | background | 5      |           |        |           |        |           |
| ENSG00000169981.10 | 2.172079267        | background | background | background | 5      |           |        |           |        |           |
| ENSG00000170325.14 | 1.699205288        | 5         | background | background | 4      |           |        |           |        |           |
| ENSG00000170458.13 | -1.196181837       | NA        | background | background | 5      |           |        |           |        |           |
| ENSG00000170681.16 | 1.950264931        | NA        | background | background | 5      |           |        |           |        |           |
| ENSG00000171055.14 | -1.151161012       | 3         | background | background | 3      |           |        |           |        |           |
| ENSG00000171097.13 | -1.264187533       | background | background | background | 4      |           |        |           |        |           |
| ENSG00000171124.12 | 1.819185641        | 5         | background | background | 4      |           |        |           |        |           |
| ENSG00000171303.6   | 4.581316458        | NA        | background | background | 5      |           |        |           |        |           |
| ENSG00000171310.10 | 6.393581619        | background | background | background | 4      |           |        |           |        |           |
| ENSG00000171345.13 | -1.056663865       | NA        | background | background | 5      |           |        |           |        |           |
| ENSG00000171345.13 | -1.056663865       | background | background | background | 5      |           |        |           |        |           |
| ENSG00000171346.15 | -1.857587504       | background | background | background | 5      |           |        |           |        |           |
| ENSG00000171786.5   | 2.918535104        | NA        | background | background | 5      |           |        |           |        |           |
| ENSG00000171848.14 | -1.053493281       | background | background | background | 4      |           |        |           |        |           |
| ENSG00000171877.20 | -1.07556312        | 5         | background | background | 2      |           |        |           |        |           |
| ENSG00000172594.12 | -1.227477005       | 5         | background | background | 5      |           |        |           |        |           |
| ENSG00000172765.16 | -1.052683475       | 4         | background | background | 4      |           |        |           |        |           |
| ENSG00000172901.19 | 1.919904897        | background | background | background | 4      |           |        |           |        |           |
| ENSG00000173175.14 | 3.047717415        | 5         | background | background | 5      |           |        |           |        |           |
| ENSG00000173210.19 | -3.455693436       | background | background | background | 4      |           |        |           |        |           |
| ENSG00000173261.8   | 1.754242433        | background | background | background | 5      |           |        |           |        |           |
| ENSG00000173281.4   | 1.829626425        | NA        | background | background | 5      |           |        |           |        |           |
| ENSG00000173597.8   | 1.180089478        | background | background | background | 3      |           |        |           |        |           |
| ENSG00000173926.5   | 1.123743393        | background | background | background | 4      |           |        |           |        |           |
| ENSG00000174038.12 | 3.918602122        | NA        | background | background | 5      |           |        |           |        |           |
| ENSG00000174945.13 | 3.810335391        | background | background | background | 5      |           |        |           |        |           |
| ENSG00000175003.12 | 2.815444774        | background | background | background | 4      |           |        |           |        |           |
| ENSG00000175029.16 | 1.275576611        | background | background | background | 5      |           |        |           |        |           |
| ENSG00000175189.3   | -1.035297984       | NA        | background | background | 5      |           |        |           |        |           |
| ENSG00000175206.10 | 2.377540439        | NA        | background | background | 5      |           |        |           |        |           |
| ENSG00000175267.14 | 4.812835091        | 5         | background | background | 4      |           |        |           |        |           |
| ENSG00000175356.12 | 5.192441901        | background | background | background | 4      |           |        |           |        |           |
| ENSG00000175643.8   | -1.133996584       | NA        | background | background | 5      |           |        |           |        |           |
| ENSG00000175793.11 | -1.005981829       | NA        | background | background | 5      |           |        |           |        |           |
| ENSG00000175820.3   | 7.652690009        | background | background | background | 4      |           |        |           |        |           |
| ENSG00000175928.5   | 3.171259537        | NA        | background | background | 4      |           |        |           |        |           |
| ENSG00000176046.8   | 1.424513875        | NA        | background | background | 5      |           |        |           |        |           |
| Gene                | Log2 Fold Change | P-Value | Background | Background | Background | Background |
|---------------------|-----------------|---------|------------|------------|------------|------------|
| ENSG00000176076.7   | 3.00487674      | NA      | background | background | background | background |
| ENSG00000176160.10  | 6.558228138     | background | background | 5          | 4          |
| ENSG00000176204.13  | 1.199452907     | background | background | 5          | background | 4          |
| ENSG00000176358.15  | 3.22051675      | NA      | background | 5          | 5          |
| ENSG00000176381.5   | 1.509736152     | NA      | background | 5          | 5          |
| ENSG00000176641.10  | 3.588665836     | NA      | background | 5          | 5          |
| ENSG00000176920.11  | -2.041300875    | NA      | background | 5          | background | 5          |
| ENSG00000177108.5   | 5.199655556     | NA      | background | 5          | background | 5          |
| ENSG00000177374.12  | 1.121732122     | NA      | background | 5          |
| ENSG00000177483.11  | 2.76425994      | 5       | background | 5          |
| ENSG00000177873.12  | -0.19765843     | background | background | 5          |
| ENSG00000177943.13  | -1.77784368     | 5       | background | 5          |
| ENSG00000177984.6   | -1.932511897    | background | background | 5          |
| ENSG00000178201.4   | 1.775828417     | NA      | background | 5          |
| ENSG00000178233.17  | 3.388300644     | NA      | background | 5          |
| ENSG00000178467.17  | 6.003281119     | background | background | 5          |
| ENSG00000178562.17  | 3.571330774     | background | background | 5          |
| ENSG00000178965.13  | 4.870911793     | background | background | 4          |
| ENSG00000179242.15  | 2.69284945      | background | background | 4          |
| ENSG00000179292.4   | 1.513897762     | NA      | background | 5          |
| ENSG00000179546.4   | 1.202748847     | NA      | background | 5          |
| ENSG00000180336.17  | 2.031096388     | background | background | 4          |
| ENSG00000180353.10  | 3.118579052     | background | background | 4          |
| ENSG00000180616.8   | 1.387286217     | NA      | background | 5          |
| ENSG00000180638.17  | 1.357999801     | background | background | 3          |
| ENSG00000180644.7   | -1.507527798    | NA      | background | 5          |
| ENSG00000180822.11  | -1.024134685    | background | background | 5          |
| ENSG00000180914.10  | 1.26122949      | background | 5          |
| ENSG00000181016.9   | 1.965375273     | NA      | background | 5          |
| ENSG00000181350.11  | 1.895985133     | NA      | background | 4          |
| ENSG00000181392.14  | -1.03461092     | 5       | background | 5          |
| ENSG00000181444.12  | 3.603658199     | background | background | 5          |
| ENSG00000181649.5   | 1.163621187     | NA      | background | 5          |
| ENSG00000182013.17  | 1.529099579     | background | background | 5          |
| ENSG00000182022.17  | -1.341637837    | 5       | background | 5          |
| ENSG00000182179.12  | -1.016476833    | 2       | background | 2          |
| ENSG00000182247.9   | 1.720926057     | background | 5          |
| ENSG00000182310.13  | 2.836621225     | background | background | 5          |
| ENSG00000182324.6   | 1.781495021     | background | background | 5          |
| ENSG00000182459.4   | 4.714908052     | NA      | background | background |
| ENSG00000182492.15  | 3.190617268     | background | 4          | 5          | 4          |
| Gene ID | Description | Log2 Fold Change | Background | Annotation | Background |
|--------|-------------|-----------------|------------|------------|------------|
| ENSG00000182568.16 | 2.734993635 | background | 4 | background | 4 |
| ENSG00000182575.7 | 1.517522515 | NA | background | background | 5 |
| ENSG00000182685.7 | 1.206966326 | background | 5 | background | 5 |
| ENSG00000182963.9 | 1.193153834 | background | NA | background | 4 |
| ENSG00000183111.11 | 1.479688402 | background | background | background | 4 |
| ENSG00000183287.13 | 2.1513129693 | background | background | background | 4 |
| ENSG00000183423.11 | 4.922136762 | background | NA | background | 5 |
| ENSG00000183454.16 | 7.167099718 | background | background | background | 3 |
| ENSG00000183629.13 | 3.680282465 | background | background | NA | 5 |
| ENSG00000183826.5 | 1.52844518 | background | background | background | 5 |
| ENSG00000183747.11 | 1.457236534 | background | 5 | background | 4 |
| ENSG00000183813.6 | 2.146582899 | NA | background | background | 4 |
| ENSG00000183971.6 | 1.891287447 | NA | NA | NA | 5 |
| ENSG00000184166.2 | 1.516827666 | NA | NA | NA | background |
| ENSG00000184260.5 | -1.313129693 | NA | NA | NA | background |
| ENSG00000184451.5 | 1.120813084 | NA | background | background | 4 |
| ENSG00000184489.11 | 1.511406772 | background | background | background | 3 |
| ENSG00000184659.4 | 3.217138888 | NA | background | background | 5 |
| ENSG00000184792.15 | 1.927796767 | 5 | background | background | 4 |
| ENSG00000184860.9 | 4.312450815 | background | background | background | 5 |
| ENSG00000184898.6 | -1.213287612 | background | background | background | 5 |
| ENSG00000184956.15 | 2.520617359 | 4 | background | background | 5 |
| ENSG00000184984.9 | 2.128708485 | background | background | background | 5 |
| ENSG00000185088.13 | -1.023071256 | background | background | background | 5 |
| ENSG00000185189.17 | -1.27921885 | background | background | background | 5 |
| ENSG00000185483.11 | 1.488393367 | background | background | background | 5 |
| ENSG00000185615.15 | 1.680735836 | background | background | background | 5 |
| ENSG00000185686.17 | 1.052451235 | background | background | background | 5 |
| ENSG00000185880.12 | -1.007448066 | background | background | background | 4 |
| ENSG00000185955.4 | 3.47886083 | NA | background | background | 5 |
| ENSG00000185988.12 | 3.930719406 | 5 | background | 5 | 4 |
| ENSG00000186329.9 | 1.206821362 | background | NA | background | 5 |
| ENSG00000186480.12 | -2.053081046 | 5 | background | background | 5 |
| ENSG00000186919.12 | 2.719564726 | background | background | background | 4 |
| ENSG00000187003.6 | 4.510797364 | NA | background | background | 5 |
| ENSG00000187583.10 | -1.641834553 | 5 | background | background | 4 |
| ENSG00000187627.15 | 1.338735998 | 4 | NA | NA | 4 |
| ENSG00000187634.11 | 1.84657986 | background | background | background | 4 |
| Ensembl ID     | Gene ID     | Log2 Fold Change | Status  | Expression Level | Background Level |
|---------------|-------------|-----------------|---------|------------------|------------------|
| ENSG00000187867.8 | 1.289657916 | background      | NA      | background       | background       |
| ENSG00000188199.10 | 1.120549917 | 5               | background | background       | NA               |
| ENSG00000188283.11 | 1.041342404 | background      | 5       | background       | 5                |
| ENSG00000188549.12 | -1.211359894 | background     | 5       | background       | 4                |
| ENSG00000188629.11 | 3.722988129  | background      | 5       | background       | 5                |
| ENSG00000188677.14 | 2.192591514  | background      | 5       | background       | 3                |
| ENSG00000188981.10 | 1.712616115  | background      | 5       | background       | 5                |
| ENSG00000189030.9  | 6.506536284  | NA              | background | background       | background       |
| ENSG00000189292.15 | 1.725190635  | background      | 5       | background       | NA               |
| ENSG00000189350.12 | 2.149680169  | background      | 5       | background       | 4                |
| ENSG00000196188.10 | -1.45556059  | background      | 5       | background       | 5                |
| ENSG00000196296.13 | 1.013365872  | background      | 5       | background       | 4                |
| ENSG00000196338.12 | 2.585866765  | 5               | background | background       | 5                |
| ENSG00000196502.11 | -1.24467878  | background      | 5       | background       | 4                |
| ENSG00000196517.11 | 1.326370419  | background      | 5       | background       | 4                |
| ENSG00000196876.9  | 1.264043787  | 5               | background | background       | 4                |
| ENSG00000197054.11 | 1.26346682   | background      | 5       | background       | 5                |
| ENSG00000197140.14 | 1.330595302  | background      | 5       | background       | 4                |
| ENSG00000197181.11 | 1.243275211  | background      | 5       | background       | 5                |
| ENSG00000197380.10 | 1.805423394  | background      | 5       | background       | 5                |
| ENSG00000197461.13 | 1.08073322   | background      | 5       | background       | 4                |
| ENSG00000197520.10 | 3.499349454  | 5               | background | background       | 5                |
| ENSG00000197540.7  | 4.618601793  | background      | 5       | background       | 4                |
| ENSG00000197580.11 | 1.822351836  | background      | 5       | background       | 4                |
| ENSG00000197653.15 | 3.428399953  | 5               | background | background       | 4                |
| ENSG00000197653.15 | 3.428399953  | 5               | background | background       | 4                |
| ENSG00000198064.13 | 1.398255072  | background      | 5       | background       | 5                |
| ENSG00000198099.8  | -1.213070068 | background      | 5       | background       | 5                |
| ENSG00000198156.10 | 4.339885626  | background      | 5       | background       | 5                |
| ENSG00000198513.11 | 1.769231762  | background      | 5       | background       | 5                |
| ENSG00000198576.3  | 3.797068713  | background      | 5       | background       | 5                |
| ENSG00000198590.11 | 1.207086212  | background      | 5       | background       | 5                |
| ENSG00000198598.6  | 1.190261651  | background      | 5       | background       | 4                |
| ENSG00000198663.16 | -1.341859878 | 4               | background | background       | 4                |
| ENSG00000198690.9  | -1.151592675 | 5               | background | background       | 5                |
| ENSG00000198758.5  | 1.56060119   | background      | 5       | background       | 4                |
| ENSG00000198797.6  | -2.695682569 | background      | 5       | background       | 4                |
| ENSG00000204176.13 | 1.027531206  | background      | 5       | background       | 4                |
| ENSG00000204186.7  | 1.254225442  | background      | 5       | background       | 4                |
| ENSG00000204428.12 | 1.824082292  | NA              | background | background       | 5                |
| ENSG00000204613.10 | -1.154915243 | 5               | background | background       | 5                |
| Genomic Location | Value | Color | Background | Count |
|------------------|-------|-------|------------|-------|
| ENSG00000204695.4 | 1.859716751 | NA | background | 5 |
| ENSG00000205090.8 | 1.55121461 | background | background | 5 |
| ENSG00000205670.10 | 1.338924228 | background | background | 5 |
| ENSG00000205978.5 | 2.03693656 | background | background | 5 |
| ENSG00000206561.12 | 4.807382587 | background | background | 4 |
| ENSG00000212643.2 | 2.773149159 | NA | background | background | 4 |
| ENSG00000212901.3 | -1.57048056 | NA | background | 5 |
| ENSG00000213190.3 | 1.163930023 | NA | background | 4 |
| ENSG00000213593.9 | -1.114347612 | NA | background | 4 |
| ENSG00000213654.9 | 1.808728855 | NA | background | 5 |
| ENSG00000213694.3 | 2.53916295 | NA | background | 5 |
| ENSG00000213714.1 | 2.432120297 | NA | background | 4 |
| ENSG00000213886.3 | -1.114347612 | NA | background | 4 |
| ENSG00000213903.8 | 1.236071117 | NA | background | 5 |
| ENSG00000213906.9 | 1.052433652 | NA | background | 5 |
| ENSG00000214279.13 | 1.714043164 | NA | background | 4 |
| ENSG00000214376.5 | 2.064136996 | NA | background | 4 |
| ENSG00000214575.9 | 1.113984196 | background | background | 4 |
| ENSG00000214694.10 | 4.181012251 | background | background | 4 |
| ENSG00000215229.12 | 7.522256549 | background | NA | 4 |
| ENSG00000215644.9 | 6.792109574 | background | background | 4 |
| ENSG00000215845.10 | 3.393445418 | background | NA | 5 |
| ENSG00000219607.3 | -1.00692927 | NA | background | 5 |
| ENSG00000221821.3 | -1.127904624 | NA | background | 5 |
| ENSG00000221995.5 | 1.70469625 | NA | background | 5 |
| ENSG00000223573.6 | 2.368850462 | background | background | 5 |
| ENSG00000228198.3 | 1.311602671 | NA | background | 5 |
| ENSG00000231852.6 | 1.649159237 | background | background | 5 |
| ENSG00000231887.6 | 1.52585132 | background | background | 4 |
| ENSG00000234284.6 | 1.440159231 | background | background | 5 |
| ENSG00000239474.6 | 1.658949668 | background | background | 5 |
| ENSG00000239704.10 | 1.284063492 | background | background | 3 |
| ENSG00000240038.6 | 1.374731806 | background | background | 5 |
| ENSG00000241848.49 | 3.969384834 | background | background | 4 |
| ENSG00000241945.7 | -1.172417354 | background | background | 5 |
| ENSG00000242689.2 | 2.722342667 | background | background | 5 |
| ENSG00000243056.1 | 1.545259844 | NA | background | 5 |
| ENSG00000243414.5 | 3.753936488 | NA | background | 4 |
| ENSG00000243477.5 | -1.096050028 | NA | background | 4 |
| ENSG00000244067.2 | 1.119686396 | background | background | 5 |
| ENSG00000244607.5 | 2.054469531 | background | background | 4 |
| Gene ID          | Value   | Adj. P Value | Background | Rank |
|-----------------|---------|--------------|------------|------|
| ENSG00000246922.8 | 2.27870546 | NA           | background | 5    |
| ENSG00000248405.10 | 2.386897748 | background | background | 4    |
| ENSG00000249437.7 | 1.054400882 | background | background | 4    |
| ENSG00000251201.8 | 2.20903023 | background | background | 5    |
| ENSG00000251493.4 | 2.376299144 | NA           | background | 5    |
| ENSG00000251569.1 | 1.07041222 | background | background | 5    |
| ENSG00000253309.6 | 3.428460728 | background | background | 5    |
| ENSG00000254206.5 | 1.062064056 | background | background | 5    |
| ENSG00000254827.5 | 2.274915437 | NA           | background | 4    |
| ENSG00000255150.2 | 1.347139932 | 5            | background | 5    |
| ENSG00000256223.5 | 1.153029391 | background | background | 4    |
| ENSG00000257335.8 | 3.331078273 | background | background | 5    |
| ENSG00000257743.8 | 3.773779616 | 4            | background | 4    |
| ENSG00000259399.1 | 1.347139932 | 5            | background | 5    |
| ENSG00000260001.6 | 1.232330005 | background | background | 5    |
| ENSG00000260286.3 | 6.352060727 | NA           | background | 5    |
| ENSG00000260325.1 | 1.569137585 | NA           | background | 5    |
| ENSG00000262655.3 | 1.740498204 | 5            | background | 4    |
| ENSG00000265303.1 | 3.374934162 | background | NA         | 5    |
| ENSG00000266733.5 | 2.665273256 | background | background | 5    |
| ENSG00000267534.2 | 1.352220444 | NA           | background | 5    |
| ENSG00000268083.5 | 7.109558204 | background | NA         | 5    |
| ENSG00000269720.2 | 5.895375509 | background | NA         | 4    |
| ENSG00000270898.5 | 2.509098738 | background | background | 4    |
| ENSG00000272968.5 | 2.422728317 | background | background | 4    |
| ENSG00000273238.2 | 2.928632492 | NA           | background | 5    |
| ENSG00000273841.4 | -1.268427614 | NA           | background | 5    |
| ENSG00000274276.4 | -1.213581806 | 4            | background | 4    |
| ENSG00000275793.1 | 1.729456552 | NA           | background | 4    |
| ENSG00000277117.4 | -1.639705689 | background | background | 5    |
| ENSG00000277481.1 | 3.406327626 | background | NA         | 4    |
| ENSG00000277758.4 | 5.991258942 | 5            | background | 4    |
| ENSG00000277893.1 | 2.82637503 | background | background | 5    |
| ENSG00000278535.4 | -1.078697987 | background | background | 5    |
| ENSG00000280433.1 | 4.20080764 | background | NA         | 5    |
| ENSG00000281106.2 | 1.733217882 | NA           | background | 3    |
| ENSG00000282804.1 | 5.910155795 | background | NA         | 5    |
| ENSG00000283154.2 | 2.545731822 | background | background | 4    |
| ENSG00000283189.2 | -1.660829249 | background | background | 4    |
| Gene ID      | Gene ID  | Description | Value       | Description | Value       | Description |
|-------------|----------|-------------|-------------|-------------|-------------|-------------|
| ENSG00000284526.1 | 1.465806584 | NA          | background  | background  | background  |
| ENSG00000075340.22 | -1.371114049 | background  | background  | background  | background  |
| ENSG0000000841110.10 | -1.347275945 | 5           | background  | background  | background  |
| ENSG000000102554.13 | 1.16837461  | background  | background  | background  | background  |
| ENSG000000104267.9 | -1.423241049 | background  | background  | background  | background  |
| ENSG000000106976.20 | -3.16880218 | background  | background  | background  | background  |
| ENSG000000107159.12 | -1.418211334 | background  | background  | background  | background  |
| ENSG000000108387.14 | -1.660441075 | 5           | background  | background  | background  |
| ENSG000000111335.12 | 1.97159912  | 5           | background  | background  | background  |
| ENSG000000111452.12 | -1.159410288 | background  | background  | background  | background  |
| ENSG000000111716.12 | -1.191516505 | background  | background  | background  | background  |
| ENSG000000111962.7 | 1.687606171 | background  | background  | background  | background  |
| ENSG000000116299.16 | 2.094292441 | background  | background  | background  | background  |
| ENSG000000119922.9 | 1.375193155 | NA          | background  | background  | background  |
| ENSG000000126709.14 | 1.138117799 | NA          | background  | background  | background  |
| ENSG000000129521.13 | -1.007196875 | background  | background  | background  | background  |
| ENSG000000130052.13 | 2.906493774 | 4           | background  | background  | background  |
| ENSG000000130561.16 | -2.520958782 | background  | background  | background  | background  |
| ENSG000000130822.15 | -1.4959089   | background  | background  | background  | background  |
| ENSG000000131482.9 | -1.258192011 | background  | background  | background  | background  |
| ENSG000000132530.16 | 1.082147741 | background  | background  | background  | background  |
| ENSG000000133106.14 | 1.92735035  | 5           | background  | background  | background  |
| ENSG000000133124.11 | -1.953349866 | NA          | background  | background  | background  |
| ENSG000000133477.16 | -2.173990598 | background  | background  | background  | background  |
| ENSG000000134326.11 | 1.177733401 | NA          | background  | background  | background  |
| ENSG000000135114.12 | 1.347545627 | background  | background  | background  | background  |
| ENSG000000137857.17 | 2.602273675 | background  | background  | background  | background  |
| ENSG000000137959.15 | 2.669966665 | background  | background  | background  | background  |
| ENSG000000143797.11 | -2.467075635 | background  | background  | background  | background  |
| ENSG000000144130.11 | -2.677923443 | background  | background  | background  | background  |
| ENSG000000146243.13 | 1.116574498 | background  | background  | background  | background  |
| ENSG000000152213.3 | 2.016158532 | NA          | background  | background  | background  |
| ENSG000000154734.14 | -3.103090643 | background  | background  | background  | background  |
| ENSG000000157601.13 | 1.208199076 | background  | background  | background  | background  |
| ENSG000000157654.17 | 1.759436151  | 5           | background  | background  | background  |
| ENSG000000165949.12 | 1.436033206 | background  | background  | background  | background  |
| ENSG000000166503.8 | -2.284410194 | background  | background  | background  | background  |
| ENSG000000167994.11 | 1.057727024  | background  | background  | background  | background  |
| ENSG000000168743.12 | -1.127571855 | background  | background  | background  | background  |
| ENSG000000174469.19 | 2.082929709  | 5           | background  | background  | background  |
| Gene ID   | Value     | Method       | Position | Score   |
|-----------|-----------|--------------|----------|---------|
| ENSG00000178226.10 | -1.135019308 | background   | background | background |
| ENSG00000185745.9  | 1.841373719  | NA           | background | background |
| ENSG00000187608.8  | 1.079562729  | NA           | background | background |
| ENSG00000196878.14 | -1.198371555 | background   | background | background |
| ENSG00000205670.10 | 1.388071046  | background   | background | background |
| ENSG00000224916.9  | -1.198371555 | background   | background | background |
| ENSG00000254536.1  | 1.740306283  | background   | background | background |
| ENSG00000257411.1  | -10.11799904 | background   | background | background |
| ENSG00000266964.5  | -1.354133809 | background   | background | background |
| ENSG00000270136.5  | 2.029576168  | background   | background | background |
| ENSG00000273590.4  | -1.244219077 | background   | background | background |
| ENSG00000275832.4  | 1.054893997  | background   | NA        | background |
| ENSG00000281028.1  | -1.046984977 | background   | background | background |
| ENSG00000004139.13 | 1.177877029  | background   | background | background |
| ENSG00000005844.17 | -1.262494264 | background   | background | background |
| ENSG00000006552.13 | 1.119203344 | background   | background | background |
| ENSG00000006747.14 | 2.119317031  | background   | background | background |
| ENSG00000007255.10 | -1.293432183 | 5            | background | background |
| ENSG00000010278.12 | 1.048680463  | background   | background | background |
| ENSG00000011260.13 | -1.257419801 | background   | background | background |
| ENSG00000012504.13 | -1.365614907 | background   | background | background |
| ENSG00000014985.13 | 1.124470604  | 5            | background | background |
| ENSG00000020633.18 | 1.138469808  | 5            | background | background |
| ENSG00000021461.16 | 1.443309567  | 5            | background | background |
| ENSG00000021645.11 | 1.810912837  | 5            | background | background |
| ENSG00000021852.12 | -1.561119812 | 5            | background | background |
| ENSG00000028277.21 | 1.525705511  | background   | background | background |
| ENSG00000031081.10 | 3.012084447  | background   | background | background |
| ENSG00000047457.13 | -1.380491143 | 5            | background | background |
| ENSG00000049283.17 | 1.266204083  | 5            | background | background |
| ENSG00000051341.13 | -1.10416527  | 5            | background | background |
| ENSG00000052966.12 | -1.136376979 | background   | background | background |
| ENSG00000053433.17 | 1.193633138  | NA           | background | background |
| ENSG00000053702.14 | 1.061122159  | background   | background | background |
| ENSG00000054179.11 | -1.18497826  | background   | background | background |
| ENSG00000055732.12 | 1.725037676  | background   | background | background |
| ENSG00000057704.12 | 4.176943613  | background   | background | background |
| ENSG00000058335.15 | 1.474968184  | 5            | background | background |
| ENSG00000059728.10 | 1.110031808  | 5            | background | background |
| ENSG00000061656.9  | -1.002152521 | 5            | background | background |
| ENSG00000064042.17 | -3.403185588 | 5 | background | background | 4 |
|------------------|-------------|---|------------|------------|---|
| ENSG00000064300.8 | 1.50827441  | background | background | background | 5 |
| ENSG00000065320.8 | 1.379696985 | 5 | background | background | 4 |
| ENSG00000065675.14 | -1.508089891 | background | background | background | 5 |
| ENSG00000066739.11 | 1.06638071  | background | background | background | 5 |
| ENSG00000067836.12 | -1.078396885 | 5 | background | background | 5 |
| ENSG00000068831.18 | 4.218948274 | background | background | background | 5 |
| ENSG00000069020.18 | 1.066797809 | background | background | background | 5 |
| ENSG00000070915.9  | -1.608175761 | background | background | background | 4 |
| ENSG00000071205.11 | 2.807645027 | background | background | background | 4 |
| ENSG00000073111.13 | -1.059224  | background | background | background | 5 |
| ENSG00000074855.10 | -1.118185285 | background | background | background | 5 |
| ENSG00000075340.22 | 2.44575266  | background | background | background | 4 |
| ENSG00000076003.4  | -1.393784339 | background | background | background | 5 |
| ENSG00000076067.12 | 1.163342479 | background | background | 5 | 5 |
| ENSG00000076641.4  | -3.453909875 | background | background | background | 4 |
| ENSG00000078898.6  | -1.306214825 | background | background | background | 5 |
| ENSG00000079156.16 | -2.704356692 | background | background | background | 5 | 4 |
| ENSG00000079263.18 | 1.522970097 | background | background | background | 5 |
| ENSG00000079393.20 | 2.007870986 | background | background | background | 5 |
| ENSG00000081051.7  | -1.14370018  | background | background | background | 4 |
| ENSG00000082126.17 | 2.864780662 | background | background | background | 5 |
| ENSG00000083807.9  | -1.105694029 | 5 | background | background | 5 |
| ENSG00000084754.10 | -1.09633395 | background | background | background | 4 |
| ENSG00000084764.10 | 1.230229577 | 5 | background | background | 5 |
| ENSG00000087074.7  | 1.171213075 | NA | background | background | 5 |
| ENSG00000087076.8  | 1.286614498 | background | background | background | 4 |
| ENSG00000087077.13 | 3.07471407  | background | background | background | 5 |
| ENSG00000087085.13 | 1.423097301 | background | background | 5 | 4 |
| ENSG00000088811.20 | 2.662627566 | background | background | background | 5 |
| ENSG00000089116.3  | 3.947047383 | background | background | background | 5 |
| ENSG00000089723.9  | 1.933141758 | 4 | background | background | 4 |
| ENSG00000091106.18 | 1.700961334 | background | background | background | 4 |
| ENSG00000091513.14 | -1.084985331 | background | background | background | 3 |
| ENSG00000091704.9  | 3.232555545 | background | background | background | 5 |
| ENSG00000092094.10 | -1.150856435 | background | background | 5 | 5 |
| ENSG00000092295.11 | 4.087061076 | background | background | background | 5 |
| ENSG00000094804.9  | -1.099724081 | 5 | background | background | 5 | 4 |
| ENSG00000095752.6  | 1.057185721 | background | background | 5 | 5 |
| ENSG00000095970.16 | 4.768012414 | background | background | background | 5 |
| GeneID     | Expression  | Feature | Feature | Feature | Feature |
|------------|-------------|---------|---------|---------|---------|
| ENSG00000099194.5 | -1.167936714 | background | background | background | 4      |
| ENSG00000099284.13 | -1.050952207 | background | background | background | 4      |
| ENSG00000099308.10 | 1.293937131  | 5       | NA      | 5       | 5      |
| ENSG00000099365.10 | 1.057607472  | 5       | background | background | 5      |
| ENSG00000099812.8 | 1.239828152  | background | background | background | 5      |
| ENSG00000099866.14 | 1.124363833  | NA      | background | background | 4      |
| ENSG00000100228.12 | 1.26066936   | background | background | background | 4      |
| ENSG00000100297.15 | -1.053914717 | 5       | background | background | 5      |
| ENSG00000100298.15 | 3.408871471  | background | background | background | 5      |
| ENSG00000100342.20 | -1.394384738 | background | background | background | 5      |
| ENSG00000100439.10 | 1.162752138  | NA      | background | background | 5      |
| ENSG00000100504.16 | 1.210935849  | background | background | background | 4      |
| ENSG00000100526.19 | -1.08600579  | background | background | background | 5      |
| ENSG00000100604.12 | 5.933291639  | background | background | background | 5      |
| ENSG00000100628.11 | 1.208785884  | background | background | background | 4      |
| ENSG00000100749.7 | 1.710122891  | 5       | background | background | 5      |
| ENSG00000101000.5 | 1.174583388  | NA      | background | background | 5      |
| ENSG00000101098.12 | 1.605853957  | background | background | background | 5      |
| ENSG00000101160.13 | 1.304471956  | background | background | background | 5      |
| ENSG00000101162.3 | -1.135153396 | background | background | background | 5      |
| ENSG00000101188.4 | 1.710122891  | background | background | background | 5      |
| ENSG00000101197.12 | 1.095962702  | background | background | background | 5      |
| ENSG00000101198.14 | 3.81745821   | background | background | background | 5      |
| ENSG00000101210.10 | 1.550811043  | background | background | background | 5      |
| ENSG00000101213.6 | 2.052872699  | background | background | background | 5      |
| ENSG00000101335.9 | 1.039865154  | NA      | background | background | 5      |
| ENSG00000101489.19 | -2.844552686 | background | background | background | 5      |
| ENSG00000101605.12 | 1.598886722  | 5       | 5       | background | 5      |
| ENSG00000102007.10 | 1.170186423  | background | background | background | 5      |
| ENSG00000102554.13 | 1.128497533  | background | background | background | 5      |
| ENSG00000102760.12 | 1.019294331  | NA      | background | background | 5      |
| ENSG00000102780.16 | -2.373567077 | background | background | background | 4      |
| ENSG00000102908.20 | 1.155003264  | background | background | background | 5      |
| ENSG00000103269.13 | -1.580275412 | background | background | background | 5      |
| ENSG00000103375.10 | 2.067205743  | background | background | background | 5      |
| ENSG00000103528.16 | 3.964619102  | background | background | background | 4      |
| ENSG00000104055.15 | 1.780116796  | background | background | background | 4      |
| ENSG00000104419.14 | -1.347229205 | background | background | background | 4      |
| ENSG00000104497.13 | 1.245659986  | background | background | background | 5      |
| ENSG00000104549.11 | -1.00971259  | background | background | background | 5      |
| Gene ID       | Log2 Fold Change | Regulation | p-value | FPKM  |
|--------------|-----------------|------------|---------|-------|
| ENSG00000104689.9 | 1.206579104  | background | background | 5    |
| ENSG00000104765.15 | -1.153873615 | background | background | 4    |
| ENSG00000104783.11 | 1.772602916  | background | background | 5    |
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| ENSG00000104936.17 | 1.18379698   | background | background | 5    |
| ENSG00000105136.20 | 1.11820146   | background | background | 5    |
| ENSG00000105146.12 | 1.731405852  | background | background | 5    |
| ENSG00000105246.5 | 2.520830222  | background | background | 5    |
| ENSG00000105287.12 | -1.192575165 | background | background | 5    |
| ENSG00000105339.10 | 1.637104909  | background | background | 4    |
| ENSG00000105464.3 | 1.009115946  | background | background | 5    |
| ENSG00000105643.9 | 1.101608981  | background | background | 5    |
| ENSG00000105650.21 | 3.239514648  | background | background | 5    |
| ENSG00000105697.7 | -1.711355378 | NA         | background | 5    |
| ENSG00000106327.12 | -1.192575165 | background | background | 5    |
| ENSG00000106366.8 | 1.141391844  | background | background | 5    |
| ENSG00000106628.10 | -1.408784256 | background | background | 5    |
| ENSG00000106852.15 | 1.05319419   | background | background | 5    |
| ENSG00000106991.13 | 1.602227283  | background | background | 4    |
| ENSG00000107159.12 | -1.631980744 | background | background | 5    |
| ENSG00000107165.12 | 3.017364147  | background | background | 5    |
| ENSG00000107736.19 | 3.802667064  | background | background | 3    |
| ENSG00000107796.13 | 1.594198972  | background | background | 5    |
| ENSG00000107821.14 | -1.012322976 | background | background | 5    |
| ENSG00000107833.10 | -1.039650792 | 0          | background | 0    |
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| ENSG00000108342.12 | 3.233095519  | background | background | 5    |
| ENSG00000108551.4 | 1.798185359  | NA         | background | 5    |
| ENSG00000108576.9 | -1.31149125  | background | background | 4    |
| ENSG00000108602.17 | 3.771549593  | background | background | 5    |
| ENSG00000108826.15 | -1.409244313 | background | background | 5    |
| ENSG00000108885.14 | 1.592414526  | background | background | 5    |
| ENSG00000108883.12 | -1.231557746 | background | background | 5    |
| ENSG00000108984.13 | -1.037065846 | background | background | 4    |
| ENSG00000109063.14 | 1.397119472  | 4          | background | 4    |
| ENSG00000109107.13 | -1.040202741 | background | background | 5    |
| ENSG00000109181.11 | -1.200779926 | background | background | 5    |
| ENSG00000109205.16 | -1.21426684  | background | background | 4    |
| ENSG00000109674.3 | -1.044441508  | 5          | background | 4    |
| ENSG00000110244.6 | -1.233569466 | background | background | 5    |
| ID            | Value          | Feature 1 | Feature 2 | Feature 3 | Score |
|---------------|----------------|-----------|-----------|-----------|-------|
| ENSG00000110245.11 | -1.509611307   | background| background| background| 5     |
| ENSG00000110777.11 | 1.155682006    | background| background| background| 5     |
| ENSG00000110799.13 | 2.242202006    | background| background| background| 5     |
| ENSG00000110811.19 | -1.024835532   | background| background| background| 5     |
| ENSG00000110876.9  | 2.849270115    | NA        | background| background| 5     |
| ENSG00000110900.14 | 5.035419967    | background| background| background| 5     |
| ENSG00000111199.10 | 1.033505847    | background| background| background| 4     |
| ENSG00000111237.18 | -1.187264743   | background| background| background| 5     |
| ENSG00000111291.8  | 3.161374039    | NA        | NA        | NA        | 5     |
| ENSG00000111319.12 | -1.07186507    | 4         | background| background| 4     |
| ENSG00000111344.11 | 3.145684184    | 5         | background| background| 4     |
| ENSG00000111860.13 | 2.072579877    | background| background| background| 4     |
| ENSG00000111913.17 | 1.480894577    | 5         | background| background| 4     |
| ENSG00000112343.10 | 1.059114128    | background| background| background| 5     |
| ENSG00000112494.9  | -1.055102961   | background| background| background| 5     |
| ENSG00000112541.13 | -4.287648464   | 4         | background| background| 4     |
| ENSG00000113083.13 | -1.76858498    | background| background| background| 5     |
| ENSG00000113161.15 | -1.07847603    | background| background| background| 5     |
| ENSG00000113742.12 | 1.147363251    | background| background| background| 5     |
| ENSG00000113889.11 | -1.002179777   | background| background| background| 4     |
| ENSG00000114268.11 | -1.077405796   | 4         | background| background| 4     |
| ENSG00000114270.17 | 1.029970601    | background| background| background| 4     |
| ENSG00000114529.12 | 1.235596796    | background| background| background| 5     |
| ENSG00000114757.18 | 1.816256705    | background| background| background| 5     |
| ENSG00000114779.19 | -1.045624637   | 5         | background| background| 4     |
| ENSG00000115085.13 | 2.784038847    | background| background| background| 4     |
| ENSG00000115295.19 | 2.207284274    | background| background| background| 4     |
| ENSG00000115425.13 | -1.040716004   | background| background| background| 5     |
| ENSG00000115828.15 | -2.155883194   | background| background| background| 5     |
| ENSG00000116120.9  | -1.022481032   | background| background| background| 4     |
| ENSG00000116254.17 | 2.534164675    | 5         | background| background| 4     |
| ENSG00000116299.16 | 2.970218364    | 5         | background| background| 4     |
| ENSG00000116604.17 | 1.063463027    | background| background| background| 5     |
| ENSG00000116741.7  | 1.125669988    | background| background| background| 5     |
| ENSG00000116833.13 | -1.057767899   | background| background| background| 5     |
| ENSG00000117472.9  | 1.550523369    | background| background| background| 5     |
| ENSG00000117724.12 | -1.081084414   | 5         | background| background| 4     |
| ENSG00000117834.12 | -1.370833298   | background| background| background| 4     |
| ENSG00000118922.17 | -1.08910981    | 5         | background| background| 5     |
| ENSG00000119121.21 | 2.491792437    | background| background| background| 5     |
| ENSG00000119630.13 | 1.297732506    | background| background| background| 5     |
| GeneID   | log2FoldChange | Stratum | background | background | background | Count |
|----------|----------------|---------|------------|------------|------------|-------|
| ENSG00000119684.15 | 1.062550741  | background | background | background | background | 5     |
| ENSG00000119714.10 | 1.754068771  | NA      | background | background | background | 5     |
| ENSG00000119737.5 | 1.594004837  | NA      | background | background | background | 5     |
| ENSG00000119943.12 | -1.004097644 | background | background | background | background | 5     |
| ENSG00000120370.12 | -1.175884461 | background | background | 5 | background | 4     |
| ENSG00000120738.7 | 3.07264094   | NA      | background | background | background | 5     |
| ENSG00000120913.23 | -1.632670245 | background | background | background | background | 5     |
| ENSG00000121211.7 | -1.232770532 | background | background | background | background | 5     |
| ENSG00000121270.15 | 1.183665516  | background | background | background | background | 5     |
| ENSG00000122574.10 | 3.213592343  | background | background | background | background | 5     |
| ENSG00000122729.18 | -1.092472517 | background | background | background | background | 4     |
| ENSG00000123080.10 | -1.113455045 | 5 | 5 | background | background | 5     |
| ENSG00000123146.19 | 1.139761841  | 5 | background | background | background | 5     |
| ENSG00000123342.15 | 2.214988671  | background | background | background | background | 5     |
| ENSG00000123405.13 | -1.052746767 | background | background | background | background | 5     |
| ENSG00000123892.11 | 3.284558615  | background | background | background | background | 5     |
| ENSG00000123901.8 | 1.99115113   | background | background | background | background | 5     |
| ENSG00000123977.9 | -3.541296515 | background | background | background | background | 5     |
| ENSG00000123999.4 | -1.54091739  | NA      | background | background | background | 5     |
| ENSG00000124225.15 | 4.67641955   | background | background | 5 | background | 5     |
| ENSG00000124613.8 | 1.084132982  | background | background | 5 | 4 | background |
| ENSG00000124635.8 | 1.631905224  | NA      | NA         | NA         | background | 4     |
| ENSG00000124743.5 | 1.026230019  | background | background | background | background | 5     |
| ENSG00000124762.13 | 2.054372593  | NA      | background | background | background | 5     |
| ENSG00000124766.6 | 1.110037424  | NA      | background | background | background | 5     |
| ENSG00000124882.3 | 2.259359772  | background | background | background | background | 5     |
| ENSG00000125648.14 | -1.217823223 | background | background | background | background | 4     |
| ENSG00000125657.4 | 1.366075618  | background | background | background | background | 5     |
| ENSG00000125740.13 | 1.142860201  | NA      | background | background | background | 5     |
| ENSG00000125910.5 | 3.870775996  | NA      | background | background | background | 5     |
| ENSG00000126246.9 | -1.00078742  | background | background | background | background | 5     |
| ENSG00000126353.3 | 1.478661759  | background | background | background | background | 4     |
| ENSG00000126460.10 | 1.972068107  | background | background | background | background | 5     |
| ENSG00000127366.5 | 1.473819376  | NA      | background | background | background | 5     |
| ENSG00000127507.17 | 2.533455098  | background | background | background | background | 5     |
| ENSG00000127528.5 | 1.660287689  | background | background | background | background | 5     |
| ENSG00000127585.11 | -1.606543488 | background | background | background | background | 5     |
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| Gene ID          | Value     | Type | Location | Background | Count |
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| ENSG00000174939.10 | -1.381028852 | NA   | background | background | 5     |
| ENSG00000175003.12 | 1.282112811  | 5    | background | background | 4     |
| ENSG00000175183.9  | -1.091159644 | background | background | 5     |
| ENSG00000175197.11 | 1.171326939  | background | background | background | 5     |
| ENSG00000175489.9  | 1.583523767  | NA   | background | 5     |
| ENSG00000175538.10 | 1.85728685   | background | background | 5     |
| ENSG00000175592.8  | 1.330690253  | NA   | background | 5     |
| ENSG00000175643.8  | -1.26464923  | NA   | background | 4     |
| ENSG00000176046.8  | 1.845868824  | NA   | background | 5     |
| ENSG00000176092.14 | 1.45842656   | 5    | background | background | 4     |
| ENSG00000176204.13 | 1.16588216   | background | background | 4     |
| ENSG00000176387.6  | -1.37309818  | NA   | background | background | 4     |
| ENSG00000176533.12 | -1.112453127 | background | background | 4     |
| ENSG00000176945.16 | 2.23878941   | background | background | 5     |
| ENSG00000177189.12 | -1.056791432 | background | background | 5     |
| ENSG00000177374.12 | 3.03368944   | NA   | background | background | 5     |
| ENSG00000177459.10 | 3.331770733  | NA   | background | 5     |
| ENSG00000177508.11 | -1.1576502   | background | background | background | 4     |
| ENSG000001777551.5 | 3.735781054  | background | background | background | 5     |
| ENSG000001777599.12 | 1.89625901   | NA   | background | background | 5     |
| ENSG00000177606.6  | 1.15253492   | NA   | background | background | 5     |
| ENSG00000177688.6  | 4.437256033  | NA   | background | background | 5     |
| ENSG00000177873.12 | -1.11926447  | background | background | 5     |
| ENSG00000177984.6  | -2.18093947  | background | background | 5     |
| ENSG00000178093.13 | 1.10459127   | NA   | background | background | 5     |
| ENSG00000178201.4  | 1.705819871  | NA   | 5         | background | 5     |
| ENSG00000178226.10 | -1.88939868  | background | background | 5     |
| ENSG00000178467.17 | 4.16211923   | background | background | 5     |
| ENSG00000178597.6  | 2.06584261   | NA   | background | background | 5     |
| ENSG00000178809.7  | 1.283925302  | NA   | background | 4     |
| ENSG00000178934.4  | 1.131369583  | background | background | 5     |
| ENSG00000179023.8  | 1.594549083  | NA   | NA        | 5     |
| ENSG00000179222.17 | -1.01977478  | background | background | 5     |
| ENSG00000179292.4  | 1.759759724  | NA   | background | background | 5     |
| ENSG00000179630.10 | 1.123284323  | background | background | 5     |
| ENSG00000179889.18 | -1.66790721  | 5    | background | background | 4     |
| ENSG00000180011.6  | -1.127205784 | NA   | background | background | 5     |
| ENSG00000180061.9  | 2.008425726  | background | background | 5     |
| ENSG00000180525.11 | 1.366854192  | background | background | 5     |
| ENSG00000180532.10 | 1.781332928  | background | background | 5     |
| ENSG00000180592.16 | -1.425522159 | background | background | background | 4     |
| Ensembl ID       | Value        | Type | Location | Background | Position | Background |
|-----------------|--------------|------|----------|------------|----------|------------|
| ENSG00000180929.5 | 3.432153078  | NA   | background | background | 4        | background |
| ENSG00000181085.14 | 2.024210429  | S    | background | background | 4        | background |
| ENSG00000181649.5 | 1.447411589  | NA   | background | background | 4        | background |
| ENSG00000181790.10 | 4.33188286   | NA   | background | background | 4        | background |
| ENSG00000182010.10 | -1.136477592 | NA   | background | background | 5        | background |
| ENSG00000182247.9  | 1.30987305   | NA   | background | background | 5        | background |
| ENSG00000182308.6  | 3.30082451   | NA   | background | background | 5        | background |
| ENSG00000182250.12 | 1.039298695  | NA   | background | background | 5        | background |
| ENSG00000182795.12 | 1.3068453    | NA   | background | background | 5        | background |
| ENSG00000183018.8  | 1.3068453    | NA   | background | background | 5        | background |
| ENSG00000183045.11 | 1.123306782  | NA   | background | background | 5        | background |
| ENSG00000183250.5  | 1.05223077   | NA   | background | background | 5        | background |
| ENSG00000183962.8  | 1.962771019  | NA   | background | background | 4        | background |
| ENSG00000184316.8  | 1.08751849   | NA   | background | background | 5        | background |
| ENSG00000184644.11 | -1.049708125 | NA   | background | background | 4        | background |
| ENSG00000184574.9  | 1.837561621  | NA   | background | background | 5        | background |
| ENSG00000184931.5  | 1.788389297  | NA   | background | background | 5        | background |
| ENSG00000184786.5  | 1.00847812   | NA   | background | background | 5        | background |
| ENSG00000184986.10 | -1.167670514 | NA   | background | background | 5        | background |
| ENSG00000185019.16 | 1.054850155  | S    | background | background | 4        | background |
| ENSG00000185022.11 | 1.56173214   | NA   | background | background | 5        | background |
| ENSG00000185055.10 | 1.285717751  | NA   | background | background | 5        | background |
| ENSG00000185271.7  | 1.760738188  | NA   | background | background | 5        | background |
| ENSG00000185340.15 | 1.005485646  | NA   | background | background | 5        | background |
| ENSG00000185565.11 | 1.684757255  | NA   | background | background | 4        | background |
| ENSG00000185615.15 | 1.71270849   | S    | background | background | 5        | background |
| ENSG00000185633.10 | -2.38296231  | NA   | background | background | 5        | background |
| ENSG00000185670.7  | 1.677470581  | NA   | background | background | 5        | background |
| Genomic ID | CDS Length | Score | Strandedness | Length | Quality | Score |
|------------|------------|-------|--------------|--------|---------|-------|
| ENSG00000185761.10 | 5 | 1.297943831 | background | background | background | 5 |
| ENSG00000185885.15 | 5 | -1.487172868 | NA | background | background | 5 |
| ENSG00000185955.4 | 5 | 3.62607989 | NA | background | background | 5 |
| ENSG00000185988.12 | 5 | 4.730747947 | NA | background | background | 5 |
| ENSG00000186193.8 | 4 | 2.40679445 | NA | background | background | 4 |
| ENSG00000186226.8 | 5 | 1.91364805 | NA | background | background | 5 |
| ENSG00000186358.13 | 3 | 1.91897192 | NA | background | background | 3 |
| ENSG00000186451.1 | 5 | 1.511438605 | NA | background | background | 5 |
| ENSG00000186517.13 | 3 | 1.69117992 | background | background | background | 3 |
| ENSG00000186585.15 | 5 | 3.86049689 | background | background | background | 5 |
| ENSG00000186720.14 | 3 | 1.963338815 | background | background | background | 3 |
| ENSG00000186919.12 | 4 | 2.358022931 | background | background | background | 4 |
| ENSG00000187017.15 | 4 | 1.963338815 | background | background | background | 4 |
| ENSG00000187193.8 | 5 | 1.69117992 | background | background | background | 5 |
| ENSG00000187280.14 | 3 | 1.963338815 | background | background | background | 3 |
| ENSG00000187358.15 | 4 | 2.40679445 | NA | background | background | 4 |
| ENSG00000187498.14 | 5 | 3.18756469 | background | background | background | 5 |
| ENSG00000187678.8 | 4 | 1.150801362 | background | background | background | 4 |
| ENSG00000187720.14 | 5 | 1.591891144 | background | background | background | 5 |
| ENSG00000187922.13 | 4 | 3.482616595 | background | background | background | 4 |
| ENSG00000188283.11 | 5 | 1.339080276 | background | background | background | 5 |
| ENSG00000188338.14 | 4 | -1.043554244 | background | background | background | 4 |
| ENSG00000188641.12 | 3 | -1.537310361 | background | background | background | 3 |
| ENSG00000188659.9 | 5 | 4.194692054 | background | background | background | 5 |
| ENSG00000188897.8 | 4 | 1.591891144 | background | background | background | 4 |
| ENSG00000196136.17 | 5 | -1.1622666 | background | background | background | 5 |
| ENSG00000196152.10 | 5 | 1.129468185 | background | background | background | 5 |
| ENSG00000196159.11 | 4 | -1.625662839 | background | background | background | 4 |
| ENSG00000196337.11 | 3 | 3.079912316 | background | background | background | 3 |
| ENSG00000196358.10 | 4 | 3.035624956 | background | background | background | 4 |
| ENSG00000196482.16 | 5 | -2.41751925 | background | background | background | 5 |
| ENSG00000196660.10 | 3 | -1.286865487 | NA | background | background | 3 |
| ENSG00000196754.10 | 5 | 1.782869022 | background | background | background | 5 |
| ENSG00000196878.14 | 5 | 1.440584514 | background | background | background | 5 |
| ENSG0000019709.4 | 5 | 1.383383705 | NA | background | background | 5 |
| ENSG00000197063.10 | 5 | 1.176077826 | background | background | background | 5 |
| ENSG00000197093.10 | 5 | 1.47998058 | background | background | background | 5 |
| ENSG00000197283.15 | 5 | 2.460901412 | background | background | background | 5 |
| ENSG00000197461.13 | 5 | 1.512367888 | background | background | background | 5 |
| ENSG00000197496.5 | 5 | -1.05831735 | background | background | background | 5 |
| ENSG00000197535.14 | 4 | 1.837921561 | background | background | background | 4 |
| ENSG00000197608.11 | 5 | 1.008320487 | background | background | background | 5 |
| ENSG00000197714.8 | 5 | 1.160601644 | background | background | background | 5 |
| Gene Symbol    | Value         | Background 1 | Background 2 | Background 3 | Count |
|---------------|---------------|--------------|--------------|--------------|-------|
| ENSG00000197780.9 | 1.021222494   | NA           | background   | background   | 5     |
| ENSG00000197837.3 | 1.01663886    | NA           | background   | background   | 5     |
| ENSG00000197852.9 | 1.271971285   | NA           | background   | background   | 5     |
| ENSG00000197915.5 | 1.006327257   | background   | background   | background   | 5     |
| ENSG00000198026.7 | 4.180592825   | background   | background   | background   | 5     |
| ENSG00000198074.9 | 1.398287589   | NA           | background   | background   | 5     |
| ENSG00000198156.10 | 2.051743083   | background   | background   | background   | 5     |
| ENSG00000198208.11 | 1.031498732   | background   | background   | background   | 5     |
| ENSG00000198848.12 | 1.304675833   | background   | background   | background   | 5     |
| ENSG00000198513.11 | 1.056174777   | background   | background   | background   | 5     |
| ENSG00000198576.3 | 5.119337265   | background   | background   | background   | 5     |
| ENSG00000198753.11 | 1.031498732   | background   | background   | background   | 5     |
| ENSG00000198848.12 | 1.304675833   | background   | background   | background   | 5     |
| ENSG0000000204389.9 | 1.398513582   | background   | background   | background   | 5     |
| ENSG0000000204390.9 | 1.82412341    | background   | background   | background   | 5     |
| ENSG0000000204428.12 | 3.078437622   | background   | background   | background   | 5     |
| ENSG0000000204444.10 | -1.00892027   | background   | background   | background   | 5     |
| ENSG0000000204540.10 | 3.098025137   | background   | background   | background   | 5     |
| ENSG0000000204604.9 | 1.000874447   | background   | background   | background   | 5     |
| ENSG0000000205085.11 | 1.439163822   | NA           | NA           | NA           | 5     |
| ENSG0000000205238.9 | 2.739233412   | background   | NA           | NA           | 5     |
| ENSG0000000205269.5 | -1.063104695  | NA           | background   | background   | 5     |
| ENSG0000000205436.7 | -1.111975138  | background   | background   | background   | 5     |
| ENSG0000000205544.3 | -2.166864666  | background   | background   | background   | 5     |
| ENSG0000000205670.10 | 2.591472118   | background   | background   | background   | 5     |
| ENSG0000000211584.13 | 1.033653713   | NA           | background   | background   | 5     |
| ENSG0000000213213.13 | -1.61824472   | background   | background   | background   | 5     |
| ENSG0000000213347.10 | -1.091515625  | background   | background   | background   | 5     |
| ENSG0000000213402.2 | 2.070552074   | NA           | background   | background   | 5     |
| ENSG0000000213654.9 | 1.602489026   | background   | background   | background   | 5     |
| ENSG0000000213694.3 | 3.177092634   | NA           | background   | background   | 5     |
| ENSG0000000215760.10 | 1.52859496    | background   | background   | background   | 5     |
| ENSG0000000213920.8 | -1.475336383  | background   | background   | background   | 5     |
| ENSG0000000213949.8 | -1.006903351  | background   | background   | background   | 5     |
| ENSG0000000214140.10 | 2.340491117   | NA           | background   | background   | 5     |
| Ensembl Gene ID     | Log2 Fold Change | p-value       | Annotation 1 | Annotation 2 | Annotation 3 | Annotation 4 |
|---------------------|------------------|---------------|--------------|--------------|--------------|--------------|
| ENSG00000214274.9   | -1.070890783     | NA            | background   | background   | 5            |              |
| ENSG00000214456.8   | 1.956092693      | S             | background   | background   | 5            |              |
| ENSG00000214575.9   | 1.771473628      | background    | background   | background   | 4            |              |
| ENSG0000021482.5    | 1.990502269      | NA            | background   | background   | 5            | background   |
| ENSG00000214860.4   | 3.875066285      | background    | background   | 5            | 4            |              |
| ENSG0000021529.12   | 1.939919239      | NA            | background   | NA           | 4            |              |
| ENSG0000021544.9    | 6.494031345      | 5             | background   | background   | 5            |              |
| ENSG00000215644.9   | 1.086255453      | background    | background   | 4            |              |              |
| ENSG00000215968.8   | 1.056186877      | background    | background   | 5            |              |              |
| ENSG00000221926.11  | 1.086255453      | background    | background   | 4            |              |              |
| ENSG00000221947.7   | 1.894040371      | background    | background   | 5            |              |              |
| ENSG00000221968.8   | 1.056186877      | background    | background   | 5            |              |              |
| ENSG00000222009.8   | 1.220837382      | background    | background   | background   |              |              |
| ENSG00000223658.7   | -1.014202874     | NA            | background   | background   |              |              |
| ENSG00000227507.2   | 2.596838774      | background    | background   | background   |              |              |
| ENSG00000231274.5   | 1.715467831      | background    | background   | background   |              |              |
| ENSG00000234284.6   | 1.463406808      | background    | background   | background   |              |              |
| ENSG00000237289.9   | -1.237798815     | background    | background   | background   |              |              |
| ENSG00000240065.7   | -1.041225162     | background    | background   | 4            |              |              |
| ENSG00000241635.7   | 1.311891646      | background    | background   | background   |              |              |
| ENSG00000243649.8   | -1.001958093     | background    | background   | background   |              |              |
| ENSG00000243710.7   | 1.923212144      | background    | background   | 4            |              |              |
| ENSG00000243910.7   | 2.324019419      | background    | background   | 5            |              |              |
| ENSG00000244187.7   | -1.053674099     | background    | background   | background   |              |              |
| ENSG00000248746.5   | 3.227485651      | background    | background   | 5            |              |              |
| ENSG00000248905.8   | 1.842627906      | background    | NA           | 5            |              |              |
| ENSG00000249141.1   | -2.400445912     | background    | NA           | background   | 4            |              |
| ENSG00000250067.11  | 1.054407933      | S             | background   | 5            |              |              |
| ENSG00000250722.5   | -1.057141135     | background    | background   | 4            |              |              |
| ENSG00000251201.8   | 1.292482447      | background    | background   | 5            |              |              |
| ENSG00000254415.3   | 3.75301429       | background    | background   | 5            |              |              |
| ENSG00000255398.2   | 1.605036321      | NA            | background   | 5            |              |              |
| ENSG00000256349.1   | 1.318962214      | S             | background   | 5            |              |              |
| ENSG00000257017.4   | -1.534656612     | background    | background   | 5            |              |              |
| ENSG00000258674.5   | 1.055092074      | background    | background   | 5            |              |              |
| ENSG00000258818.3   | -1.191010396     | NA            | background   | 5            |              |              |
| ENSG00000259075.6   | 1.004389035      | background    | background   | 3            |              |              |
| ENSG00000259171.1   | -1.125160241     | background    | background   | 5            |              |              |
| ENSG00000259316.10  | -1.022935579     | background    | background   | NA           | 4            |              |
| ENSG00000259803.6   | -1.129291023     | S             | NA           | background   | 5            |              |
| ENSG00000260001.6   | 1.0869695       | background    | background   | 5            |              |              |
|    | ENSG00000260238.6 | -1.087537012 | 5 | background | background | 5 |
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| 81| ENSG00000261052.5| -1.056543326 | background | background | background | 5 |
| 81| ENSG00000261308.2| 2.348720839  | 5 | background | background | 4 |
| 81| ENSG00000261701.6| -1.281019827 | background | background | background | 5 |
| 81| ENSG00000266964.5| -1.116260732 | background | background | background | 5 |
| 81| ENSG00000267534.2| 1.52007105   | 5 | background | background | 5 |
| 81| ENSG00000267855.5| -1.175106326 | background | background | background | 5 |
| 81| ENSG00000269113.3| -1.681606667 | background | background | background | 4 |
| 81| ENSG00000269699.5| -1.149802145 | background | background | background | 4 |
| 81| ENSG00000269720.2| 6.19143399   | NA | NA | background | 5 |
| 81| ENSG00000270898.5| 2.32600795   | background | background | background | 5 |
| 81| ENSG00000273047.1| -1.48629498  | NA | NA | background | 5 |
| 81| ENSG00000274180.1| 1.29450259   | 5 | background | background | 4 |
| 81| ENSG00000274750.2| 1.239162809  | NA | NA | background | background |
| 81| ENSG00000274944.4| -2.60977153  | background | background | background | 5 |
| 81| ENSG00000275793.1| 1.52289498   | NA | background | background | background |
| 81| ENSG00000275832.4| 2.28673567   | 4 | background | background | 3 |
| 81| ENSG00000276076.4| -2.00444982  | NA | background | background | 5 |
| 81| ENSG00000277363.4| 1.00878294   | 5 | background | background | 4 |
| 81| ENSG00000277639.2| 3.786473641  | background | background | background | 5 |
| 81| ENSG00000278376.1| -1.403548672 | background | background | background | 5 |
| 81| ENSG00000284713.1| 2.42730137   | NA | background | background | 5 |
| 81| ENSG0000004757.13| -1.10649877  | 4 | background | background | 3 |
| 81| ENSG00000061656.9| -1.696573475 | background | background | background |
| 81| ENSG00000070915.9| -1.821008273 | 5 | background | background | 1 |
| 81| ENSG00000079308.16| -1.001576993 | 5 | background | background | 2 |
| 81| ENSG00000084110.10| -1.526422993 | background | background | background | 4 |
| 81| ENSG00000100490.9| 1.089024927  | 5 | background | background | 4 |
| 81| ENSG00000101162.3| -1.50375434  | 5 | background | background | 5 |
| 81| ENSG00000104765.15| -1.173537871 | background | background | background | 4 |
| 81| ENSG00000107159.12| -2.736711762 | 5 | background | background | 4 |
| 81| ENSG000000110245.11| -1.05083351 | background | background | background | 5 |
| 81| ENSG00000111452.12| -1.343014536 | background | background | background | 3 |
| 81| ENSG00000112494.9| -1.012436705 | background | background | background | 4 |
| 81| ENSG00000113083.13| -1.26724277 | background | background | background | 3 |
| 81| ENSG00000123901.8| 3.673956114  | background | background | background | 3 |
| 81| ENSG00000123999.4| -1.272163495 | NA | background | background | 5 |
| 81| ENSG00000124253.10| -1.083846225 | background | background | background | 5 |
| 81| ENSG00000129521.13| -1.431360984 | 5 | background | background | 1 |
| 81| ENSG00000130653.15| -1.331902989 | 5 | background | background | 4 |
| 81| ENSG00000130822.15| -1.997245342 | background | background | background | 5 |
| Gene ID          | Value                | Feature 1 | Feature 2 | Feature 3 | Feature 4 | Feature 5 |
|-----------------|----------------------|-----------|-----------|-----------|-----------|-----------|
| ENSG00000131482.9 | -1.951064489         | background| background| background| 4         |           |
| ENSG00000136059.14 | -1.281330138         | 5         | background| background| 4         |           |
| ENSG00000137078.8 | -1.202653505         | background| background| background| 5         |           |
| ENSG00000140107.10 | -1.089617063         | background| background| background| 5         |           |
| ENSG00000141576.14 | -1.499404664         | 5         | background| background| 5         | 4         |
| ENSG00000142549.9 | -1.010755111         | 5         | NA        | background| 5         |           |
| ENSG00000143847.15 | -1.368604228         | 5         | background| background| 5         | 4         |
| ENSG00000144130.11 | -1.661491954         | 5         | background| background| 4         |           |
| ENSG00000146678.9 | -1.364594137         | background| background| background| 5         |           |
| ENSG00000149043.16 | -1.38765186          | background| background| background| 5         |           |
| ENSG00000151320.10 | -1.157151601         | 5         | background| background| 5         | 3         |
| ENSG00000157654.17 | 1.689025832          | 5         | background| background| 5         | 1         |
| ENSG00000161243.8 | -1.345408221         | background| background| background| 4         |           |
| ENSG00000161958.10 | -1.25979243          | 5         | 5         | 5         |           |
| ENSG00000163328.13 | 1.726253076          | 5         | background| background| 4         |           |
| ENSG00000163406.10 | 1.477808981          | background| background| background| 5         | 3         |
| ENSG00000163586.9 | -1.049371586         | background| background| background| 5         |           |
| ENSG00000166762.16 | 1.386050103          | 5         | background| background| 3         |           |
| ENSG00000167800.9 | -1.233959846         | background| background| background| 4         |           |
| ENSG00000171781.14 | -1.069888599         | NA        | background| background| 5         | 4         |
| ENSG00000177984.6 | -1.12756932          | background| background| background| 5         |           |
| ENSG00000179583.18 | 1.453705776          | background| 5         | 4         | 3         |
| ENSG00000181458.10 | -1.039053193         | 5         | background| background| 4         |           |
| ENSG00000182183.14 | 2.465069514          | background| background| background| 3         |           |
| ENSG00000185633.10 | -2.26064986          | background| background| background| 5         |           |
| ENSG00000186480.12 | -1.199678214         | background| background| background| 5         | 4         |
| ENSG00000187391.19 | -1.259158967         | 5         | background| background| 5         | 0         |
| ENSG00000196159.11 | 1.201784324          | 4         | background| background| 0         |           |
| ENSG00000196878.14 | 1.533284372          | 5         | background| background| 4         |           |
| ENSG00000203685.9 | -1.042499196         | NA        | background| background| 5         | 4         |
| ENSG00000205670.10 | 2.02871302           | background| background| background| 4         |           |
| ENSG00000243708.10 | -1.640851734         | 5         | background| background| 5         |           |
| ENSG00000255730.5 | -1.002111092         | 5         | background| background| 4         |           |
| ENSG00000263020.6 | -1.031820986         | 5         | background| background| 5         |           |
| ENSG00000266964.5 | -1.306788279         | background| background| background|           |           |
| ENSG00000284461.1 | 1.007781681          | 5         | 5         | 4         | 4         |
| ENSG00000047457.13 | -1.082153406         | 5         | background| background| 4         |           |
| ENSG00000061656.9 | -1.294309235         | background| background| background|           |           |
| ENSG00000067191.15 | 1.223602507          | background| background| background|           |           |
| ENSG00000067798.14 | 1.223081306          | 5         | background| background| 4         |           |
| ENSG00000079263.18 | 1.302815793          | background| background| background| 4         |           |
| ID               | Value       | Background | Background | Background | Background |
|------------------|-------------|------------|------------|------------|------------|
| ENSG00000079308.16 | -1.013924904 | background | background | background | background |
| ENSG000000084110.10 | -1.50871134  | background | background | background | background |
| ENSG000000095752.6 | 1.106730371  | background | background | background | background |
| ENSG00000100490.9 | 1.70480322   | background | background | background | background |
| ENSG00000101162.3 | -1.116377258 | background | background | background | background |
| ENSG00000101188.4 | 1.034080833  | background | background | background | background |
| ENSG00000102554.13 | 1.237378123  | background | background | background | background |
| ENSG00000104419.14 | -1.040574353 | background | background | background |
| ENSG00000104765.15 | -1.098128291 | background | background |
| ENSG00000109107.13 | -1.029747446 | background | background | background |
| ENSG00000111335.12 | 1.62171975   | background | background |
| ENSG00000112494.9 | -1.007885606 | background | background | background |
| ENSG00000114268.11 | -1.309210007 | background | background | background |
| ENSG00000119917.13 | 1.102159999  | background | background | background |
| ENSG00000120899.17 | 1.016907642  | background | background | background |
| ENSG00000123999.4 | -1.167075469 | background | background | background |
| ENSG00000124253.10 | -1.276058236 | background | background | background |
| ENSG00000125144.13 | -1.769262888 | NA         | background | background |
| ENSG00000127585.11 | -1.24743863  | background | background | background |
| ENSG00000128564.6 | 1.684209803  | NA         | background | background |
| ENSG00000129521.13 | -1.331053799 | background | background | background |
| ENSG00000130653.15 | -1.511510709 | background | background | background |
| ENSG00000131482.9 | -1.219366196 | background | background | background |
| ENSG00000132530.16 | 1.179381747  | background | background |
| ENSG00000134326.11 | 1.485532565  | background | NA         | background |
| ENSG00000134531.9 | 1.016016995  | background | background | background |
| ENSG00000138642.14 | 1.328056918  | background | background | background |
| ENSG00000143632.14 | 1.071909923  | background | background | background |
| ENSG00000146678.9 | -1.569316234 | background | background | background |
| ENSG00000149043.16 | -1.077100307 | background | background | background |
| ENSG00000151760.13 | 1.163798839  | background | background | background |
| ENSG00000163586.9 | -1.244205333 | 5          | background | background |
| ENSG00000165272.14 | 1.064159388  | background | background | background |
| ENSG00000165949.12 | 1.312952985  | background | background | background |
| ENSG00000165953.9 | -1.183141627 | background | background | background |
| ENSG00000166750.9 | 1.016113138  | background | background | background |
| ENSG00000168874.12 | 1.538850817  | NA         | background |
| ENSG00000181016.9 | 1.380874675  | NA         | background |
| ENSG00000183054.11 | 1.203211543  | background | background | background |
|   | 83 | 84 |
|---|---|---|
|   | ENSG00000185567.6 | 1.093389146 | background | background | background | background | background |
|   | ENSG00000185745.9 | 1.959464185 | NA | background | background | background | background |
|   | ENSG00000198417.6 | -1.440469582 | NA | background | background | background | background |
|   | ENSG00000198691.11 | 1.935097977 | 5 | background | background | background | background |
|   | ENSG00000205609.12 | -1.725131156 | background | background | background | background | background |
|   | ENSG00000205670.10 | 2.254412506 | background | background | background | background | background |
|   | ENSG00000213928.8 | 1.042720221 | 5 | background | background | background | background |
|   | ENSG00000266964.5 | -1.781892987 | background | background | background | background | background |
|   | ENSG00000273047.1 | -1.357195335 | NA | NA | NA | background |
|   | ENSG00000280433.1 | 3.317078825 | background | NA | background | background | background |
|   | ENSG00000281028.1 | -2.324890789 | background | background | background | background | background |
|   | ENSG00000283765.1 | -1.205314877 | background | background | background | background | background |
|   | ENSG0000047457.13 | -1.039515297 | background | background | background | background | background |
|   | ENSG0000055957.10 | -1.020513176 | background | background | background | background | background |
|   | ENSG0000061656.9 | -1.11572812 | background | background | background | background | background |
|   | ENSG0000079308.16 | -1.258168273 | background | background | background | background | background |
|   | ENSG0000084110.10 | -1.11536873 | background | background | background | background | background |
|   | ENSG0000101162.3 | -1.15545718 | background | background | background | background | background |
|   | ENSG0000102554.13 | 1.065932298 | 5 | background | background | background | background |
|   | ENSG0000103522.15 | -1.182609668 | background | background | background | background | background |
|   | ENSG0000104765.15 | -1.06879653 | 5 | background | background | background | background |
|   | ENSG0000105204.13 | 1.13022176 | background | background | background | background | background |
|   | ENSG0000107159.12 | -2.23327222 | background | background | background | background | background |
|   | ENSG0000109107.13 | -1.01146782 | background | background | background | background | background |
|   | ENSG0000110244.6 | -1.074576437 | background | background | background | background | background |
|   | ENSG0000110245.11 | -1.067034598 | background | background | background | background | background |
|   | ENSG0000111335.12 | 1.510112201 | background | background | background | background | background |
|   | ENSG0000111716.12 | -1.341825011 | background | background | background | background | background |
|   | ENSG0000113083.13 | -1.340148384 | background | background | background | background | background |
|   | ENSG0000114268.11 | -1.184420335 | background | background | background | background | background |
|   | ENSG0000120738.7 | 1.0089134 | background | background | background | background | background |
|   | ENSG0000123999.4 | -1.171012047 | NA | background | background | background | background |
|   | ENSG0000124253.10 | -1.23415819 | background | background | background | background | background |
|   | ENSG0000124882.3 | 1.00546677 | background | background | background | background | background |
|   | ENSG0000125144.13 | -1.659555475 | NA | background | background | background | background |
|   | ENSG0000128510.10 | 1.640556787 | background | background | background | background | background |
|   | ENSG0000129521.13 | -1.543993721 | background | background | background | background | background |
|   | ENSG0000130653.15 | -1.053079682 | background | background | background | background | background |
|   | ENSG0000130822.15 | -1.933467196 | 5 | background | background | background | background |
|   | ENSG0000131482.9 | -2.068278368 | background | background | background | background | background |
|   | ENSG0000136059.14 | -1.407317344 | background | background | background | background | background |
| Gene       | Value 1          | Value 2          | Gene       | Value 1          | Value 2          |
|------------|------------------|------------------|------------|------------------|------------------|
| ENSG00000139219.17 | -1.264818177      | background       | background | background       | 5                |
| ENSG00000139800.8    | 1.223713977      | NA              | background | background       | 5                |
| ENSG00000140323.5    | 1.50021859      | background       | background | background       | 5                |
| ENSG00000143248.12   | -1.28459153      | background       | background | background       | 5                |
| ENSG00000143632.14   | 1.037617108      | background       | background | background       | 3                |
| ENSG00000146678.9     | -1.059792368     | background       | background | background       | 4                |
| ENSG00000148400.9     | 1.041826147      | background       | background | background       | 5                |
| ENSG00000149043.16    | -1.47194556      | background       | background | background       | 5                |
| ENSG00000155465.18    | 1.108010256      | background       | background | background       | 5                |
| ENSG00000161958.10    | -1.19745513      | background       | background | background       | 5                |
| ENSG00000163395.16    | 1.197956969      | background       | background | background       | 5                |
| ENSG00000163406.10    | 1.250440688      | background       | background | background       | 5                |
| ENSG00000164142.15    | -1.205161701     | background       | background | background       | 5                |
| ENSG00000164849.9     | -1.120238054     | NA              | background | background       | 4                |
| ENSG00000165949.12    | 1.127147443      | background       | background | background       | 5                |
| ENSG00000165953.9     | -1.083570472     | background       | background | background       | 4                |
| ENSG00000168785.7     | 1.164784259      | NA              | background | background       | 5                |
| ENSG00000169752.16    | 1.20146183       | background       | background | background       | 5                |
| ENSG00000171962.17    | -1.132008821     | background       | background | background       | 5                |
| ENSG00000177984.6     | -1.01614386      | background       | background | background       | 4                |
| ENSG00000184489.11    | -1.055320781     | background       | background | background       | 4                |
| ENSG00000185567.6     | 1.192762794      | background       | background | background       | 5                |
| ENSG00000185633.10    | -2.701951152     | background       | background | background       | 5                |
| ENSG00000185745.9     | 1.48326451       | NA              | background | background       | 5                |
| ENSG00000186919.12    | 1.14023894       | background       | background | background       | 5                |
| ENSG00000187800.13    | 1.28960708       | background       | background | background       | 5                |
| ENSG00000196754.10    | 1.151198529      | background       | background | background       | 5                |
| ENSG00000198417.6     | -1.63021126      | NA              | background | background       | 5                |
| ENSG00000205670.10    | 1.998035472      | background       | background | background       | 4                |
| ENSG00000224916.9     | -1.05898854      | background       | background | background       | 5                |
| ENSG000002259171.1    | -1.04436099      | background       | background | background       | 5                |
| ENSG00000266964.5     | -2.259029077     | background       | background | background       | 4                |
| ENSG00000274944.4     | -1.282882228     | background       | background | background       | 4                |
| ENSG0000003987.13     | -1.083750924     | background       | background | background       | 4                |
| ENSG00000079308.16    | -1.035765382     | background       | background | background       | 5                |
| ENSG00000084110.10    | -1.338551015     | 5               | background | background       | 3                |
| ENSG00000105204.13    | 1.107182425      | 5               | background | background       | 4                |
| ENSG00000107159.12    | -1.615092802     | background       | background | background       | 4                |
| ENSG00000111335.12    | 2.173799116      | 5               | background | background       | 5                |
| Gene ID               | Expression Value | Type | Background Count | Number |
|----------------------|------------------|------|------------------|--------|
| ENSG00000119917.13   | 1.073271531      | NA   | 5                | 4      |
| ENSG00000119922.9    | 1.229471412      | NA   | 3                | 3      |
| ENSG0000012453.10    | -1.169415613     | background | 5  | 5      |
| ENSG00000125144.13   | -1.403177565     | NA   | background       | background |
| ENSG00000126709.14   | 1.471313885      | NA   | background       | background |
| ENSG00000128242.12   | -1.058699001     | NA   | background       | background |
| ENSG00000130822.15   | -1.561146967     | 5    | background       | background |
| ENSG00000131482.9    | -1.07073409      | background | 5  | 5      |
| ENSG00000132530.16   | 1.251008215      | background | 5  | 5      |
| ENSG00000134326.11   | 1.651423005      | NA   | 5                | 4      |
| ENSG00000137628.16   | 1.3622784        | 5    | 5                | 4      |
| ENSG00000138642.14   | 1.232747077      | 4    | background       | background |
| ENSG00000149043.16   | -1.021165915     | background | background | background |
| ENSG00000157601.13   | 1.521618091      | background | 5  | 4      |
| ENSG00000163395.16   | 1.260530566      | background | 5  | 5      |
| ENSG00000165949.12   | 1.653263438      | background | 5  | 4      |
| ENSG00000168743.12   | -1.000001431     | background | background | 3      |
| ENSG00000185745.9    | 2.105532296      | NA   | background       | background |
| ENSG000002185885.15  | 1.357662993      | background | background | background |
| ENSG00000187608.8    | 1.315756958      | NA   | background       | background |
| ENSG00000188177.13   | -1.095930784     | 5    | background       | 4      |
| ENSG00000198691.11   | 2.008796467      | 5    | background       | 3      |
| ENSG00000205670.10   | 2.948554317      | background | background | 4      |
| ENSG00000266964.5    | -1.5715563       | background | background | background |
| ENSG00000273590.4    | -1.465920945     | background | background | 4      |
| ENSG00000283761.1    | 1.103004902      | 5    | background       | 4      |
| ENSG00000283765.1    | -1.105767471     | background | 5  | 4      |
| ENSG00000012822.15   | -1.037908858     | background | background | 4      |
| ENSG00000013588.7    | 1.02949537       | background | 5  | 5      |
| ENSG00000064300.8    | 1.337860838      | background | background | 4      |
| ENSG00000064886.13   | 1.278795401      | 5    | background       | 5      |
| ENSG00000067798.14   | 1.385979875      | 5    | background       | 2      |
| ENSG00000069188.16   | -5.888290143     | 5    | NA              | 4      |
| ENSG00000069696.6    | 1.622727438      | background | 5  | 5      |
| ENSG00000079263.18   | 1.444976089      | background | 5  | 3      |
| ENSG00000085276.17   | 1.008189726      | 5    | background       | 3      |
| ENSG00000091482.5    | 1.134708736      | 5    | 5                | background |
| ENSG00000100490.9    | 1.463170932      | 5    | background       | 4      |
| ENSG00000100557.9    | 1.099485414      | background | 5  | 5      |
| ENSG0000010628.11    | 1.114221266      | 5    | background       | 4      |
| ENSG00000101000.5    | 1.03305617       | NA   | background       | 4      |
| ID                           | Val     | Exp     | Rank | Background 1 | Background 2 | Background 3 | Background 4 |
|------------------------------|---------|---------|------|--------------|--------------|--------------|--------------|
| ENSG00000101605.12          | 1.484323711 | 5      | background | background | 4            | 4            |
| ENSG00000103021.9           | 1.763712058 | background | background | 4            | 4            |
| ENSG00000103044.10          | 1.326537824 | NA     | background | 4            | 4            |
| ENSG00000104055.15          | 1.125410956 | 5      | background | background | 5            | 4            |
| ENSG00000105204.13          | 1.079404475 | background | background | 5            | 4            |
| ENSG00000105650.21          | 2.056322581 | background | background | 4            | 4            |
| ENSG00000105825.11          | 1.23732124  | NA     | background | 5            | 4            |
| ENSG00000106479.10          | 1.25180026  | 5      | background | 5            | 4            |
| ENSG00000106852.15          | 1.367267571 | 5      | background | 5            | 4            |
| ENSG00000106976.20          | -2.472901593 | 5      | background | background | 4            |
| ENSG00000107796.13          | 1.22581469  | background | 5            | 4            |
| ENSG00000111291.8           | 2.483081107 | NA     | NA    | NA           | 4            |
| ENSG00000111335.12          | 1.90131568  | background | background | 4            | 4            |
| ENSG00000111728.10          | 1.744349377 | background | background | 5            | 4            |
| ENSG000001116299.16         | 1.924781723 | 5      | background | background | 4            |
| ENSG000001117472.9          | 1.6551057   | background | background | 4            |
| ENSG00000117983.17          | 2.726546133 | 5      | background | 4            | 4            |
| ENSG00000118094.11          | 2.56276193  | background | 5            | 4            |
| ENSG00000118492.16          | 1.46433248  | background | background | 4            |
| ENSG00000118596.11          | 1.7419501   | background | 5            | 4            |
| ENSG00000119917.13          | 1.43105879  | NA     | background | 4            | 4            |
| ENSG00000119922.9           | 1.627467296 | NA     | background | 4            |
| ENSG00000124635.8           | 1.60674709  | NA     | NA    | NA           | 5            |
| ENSG00000124762.13          | 1.05804523  | NA     | 5      | 5            |
| ENSG00000125144.13          | -1.257204671 | NA     | background | background | 4            |
| ENSG00000125910.5           | 2.616937398 | NA     | background | 5            |
| ENSG00000126709.14          | 1.39974433  | NA     | background | 5            |
| ENSG00000128422.15          | 1.446193916 | 5      | background | 5            |
| ENSG00000129749.3           | 1.837266786 | 5      | background | 5            |
| ENSG00000130513.6           | 1.0710111   | NA     | background | 4            |
| ENSG00000131095.12          | 1.672665146 | background | background | 5            | 4            |
| ENSG00000132517.14          | 2.272618323 | 4      | 5      | background | 4            |
| ENSG00000132530.16          | 1.511798625 | 5      | background | 4            |
| ENSG00000132563.15          | 1.00969157  | background | background | 5            |
| ENSG00000133106.14          | 1.665396871 | background | background | 5            | 4            |
| ENSG00000133392.17          | 1.015488818 | 5      | background | NA           | 4            |
| ENSG00000133401.15          | 3.918682129 | 4      | background | 5            | 4            |
| ENSG00000134326.11          | 1.234102716 | background | NA       | 5            | 4            |
| ENSG00000134762.16          | 1.518949692 | background | background | 5            | 4            |
| ENSG00000135114.12          | 1.892774683 | 5      | background | 3            |
| ENSG00000135439.11 | 1.860039159 | background | background | 5 | 4 |
|-------------------|-------------|-----------|-----------|---|---|
| ENSG00000135678.11 | 1.590717429 | 5 | background | 5 | 4 |
| ENSG00000135919.12 | 1.160547636 | background | 5 | background | 3 |
| ENSG00000136383.6 | -2.596458408 | 4 | background | 5 | 4 |
| ENSG00000137070.17 | -1.208606211 | 4 | background | background | 4 |
| ENSG00000137460.8 | 1.732066498 | background | background | 4 |
| ENSG00000137628.16 | 1.038323578 | background | 5 | background | 4 |
| ENSG00000137959.15 | 2.86776483 | background | background | 4 |
| ENSG00000137965.10 | 2.19920158 | background | background | 4 |
| ENSG00000138166.5 | 1.053190872 | background | background | 4 |
| ENSG00000139625.12 | 1.262666787 | 5 | background | background | 4 |
| ENSG00000141721.8 | 1.143550172 | background | 5 | 5 | 5 |
| ENSG00000143797.11 | -2.935807341 | background | background | 5 | 4 |
| ENSG00000143867.6 | 1.120959575 | 5 | background | background | 5 |
| ENSG00000144214.9 | 1.718583926 | background | background | 4 |
| ENSG00000144452.14 | 1.879225881 | 5 | background | 5 | 3 |
| ENSG00000145147.19 | -1.76657075 | 5 | background | background | 4 |
| ENSG00000145244.11 | 1.561923562 | background | NA | background | 3 |
| ENSG00000146555.18 | -3.431009851 | 5 | background | background | 3 |
| ENSG00000147174.11 | 1.25017053 | background | background | 5 |
| ENSG00000147883.10 | 1.235028806 | NA | background | background | 5 |
| ENSG00000148400.9 | 1.499103478 | 4 | background | background | 4 |
| ENSG00000148483.8 | 1.656083568 | background | background | 5 | 5 |
| ENSG00000149968.11 | 1.345192745 | 4 | background | background | 4 |
| ENSG00000152229.18 | 1.773127725 | 5 | 5 | 5 | 4 |
| ENSG00000153029.14 | 1.338501904 | NA | background | 4 | 4 |
| ENSG00000153531.13 | 1.016171089 | background | background | 4 |
| ENSG00000156127.6 | 1.441065266 | NA | background | background | 4 |
| ENSG00000156194.17 | 4.22376565 | background | 5 | background | 5 |
| ENSG00000157601.13 | 1.4141357 | 5 | background | background | 4 |
| ENSG00000157890.17 | 2.295303951 | 5 | background | 5 | 4 |
| ENSG00000159588.14 | 1.398854998 | 4 | background | background | 3 |
| ENSG00000160055.19 | 1.01311837 | background | background | 4 |
| ENSG00000160111.12 | -1.474289096 | 5 | background | background | 4 |
| ENSG00000161791.13 | 1.323426039 | 5 | background | 4 | 3 |
| ENSG00000161896.11 | 2.600332234 | 5 | background | background | 3 |
| ENSG00000162241.12 | 1.003862449 | background | 5 | background | 4 |
| ENSG00000162733.16 | 1.061865333 | 5 | background | background | 4 |
| ENSG00000163328.13 | 1.113566273 | background | background | 4 |
| ENSG00000163406.10 | 1.062914335 | background | background | 5 | 4 |
| ENSG00000164142.15 | 2.104030402 | background | 5 | background | 4 |
| ENSG00000164342.12  | 1.75826546 | 5 | background | 5 | 5 |
|---------------------|------------|---|------------|---|---|
| ENSG00000165272.14  | 1.490203051| background | background | background | 4 |
| ENSG00000165671.19  | -1.870342143| 4 | background | 4 | 4 |
| ENSG00000165757.8   | 1.229632004| 5 | background | 5 | 4 |
| ENSG00000165949.12  | 1.521394855| background | background | background | 4 |
| ENSG00000166592.11  | 1.359523129| background | background | background | 5 |
| ENSG00000166750.9   | 1.500325986| background | background | 5 | 5 |
| ENSG00000166924.8   | 1.657236887| 4 | background | 5 | 3 |
| ENSG00000167972.13  | 1.135907746| 4 | background | 4 | 4 |
| ENSG00000169184.5   | 3.37762903 | NA | 5 | 5 | 4 |
| ENSG00000169752.16  | 1.189241448| 5 | background | background | 5 |
| ENSG00000170324.20  | 1.894325953| 5 | background | background | 3 |
| ENSG00000170498.8   | 1.511328453| NA | background | background | 5 |
| ENSG00000171561.4   | 1.103278147| NA | background | background | 4 |
| ENSG00000172346.14  | 1.220599852| 4 | background | 5 | 4 |
| ENSG00000172915.18  | -1.103386651| 4 | 5 | 5 | 4 |
| ENSG00000173714.7   | 2.102432648| NA | background | background | 5 |
| ENSG00000174099.10  | 1.195182183| background | 4 | 5 | 3 |
| ENSG00000174529.7   | 1.14498207 | NA | background | 5 | 5 |
| ENSG00000175003.12  | 1.406897236| 5 | background | background | 4 |
| ENSG00000176046.8   | 1.205226173| NA | background | 5 | 5 |
| ENSG00000180999.10  | 1.375940941| background | background | background | 4 |
| ENSG00000181016.9   | 1.77552209 | NA | background | background | 5 |
| ENSG00000181722.16  | 1.180451642| background | background | 4 | 3 |
| ENSG00000182308.6   | 2.37718519 | NA | 5 | background | 5 |
| ENSG00000183054.11  | 1.020707637| 5 | background | background | 4 |
| ENSG00000183072.9   | 1.49541586 | NA | 5 | 5 | 5 |
| ENSG00000183196.8   | 1.437243855| NA | background | 5 | 5 |
| ENSG00000184163.3   | 1.589034649| 5 | background | background | 5 |
| ENSG00000184731.5   | 1.087218626| NA | NA | 5 | 5 |
| ENSG00000185055.10  | 1.16180457| background | background | 5 | 3 |
| ENSG00000185565.11  | 2.749582048| background | background | 5 | 3 |
| ENSG00000185745.9   | 2.126753387| NA | background | background | 4 |
| ENSG00000185885.15  | 1.269756059| NA | 5 | background | 5 |
| ENSG00000185988.12  | 1.9553462 | 5 | 5 | background | 5 |
| ENSG00000186472.19  | 2.32131971 | 5 | background | 5 | 3 |
| ENSG00000187608.8   | 1.365365749| NA | background | background | 5 |
| ENSG00000187800.13  | 1.04456479 | 4 | background | 4 | 4 |
| ENSG00000188064.9   | 1.045323624| background | background | 4 | 3 |
| ENSG00000188596.10  | 1.833654603| 5 | background | background | 3 |
| Gene   | Log2 Fold Change | Background | Background | Background | Background |
|--------|-----------------|------------|------------|------------|------------|
| ENSG00000188641.12 | -1.245535349 | background | background | background | 3          |
| ENSG00000188766.12 | 1.455022758  | background | background | 5          | 5          |
| ENSG00000196391.10 | 1.39064245   | background | background | 5          | 5          |
| ENSG00000196754.10 | 1.193526755  | background | background | 5          | 5          |
| ENSG00000196878.14 | 1.368421987  | background | background | 5          | 4          |
| ENSG00000197191.4  | 1.082044603  | NA         | background | background | 5          |
| ENSG00000197580.11 | 2.072035982  | background | background | 5          | 3          |
| ENSG00000197852.9  | 1.043316092  | NA         | background | 5          | 4          |
| ENSG00000198753.11 | 1.099259538  | background | background | 5          | 4          |
| ENSG00000198838.13 | -1.326531043 | background | background | 5          | 4          |
| ENSG00000198939.7  | 1.707545054  | 5          | 5          | background | 4          |
| ENSG00000205670.10 | 3.132703761  | background | background | background | 4          |
| ENSG00000212901.3  | 1.200317628  | NA         | background | 5          | 4          |
| ENSG00000221995.5  | 1.541541235  | NA         | background | 5          | 4          |
| ENSG00000224916.9  | -1.254153297 | background | background | 4          | 4          |
| ENSG00000228198.3  | 1.143599782  | NA         | background | 5          | 4          |
| ENSG00000231274.5  | 1.05617205   | background | NA         | background | 5          |
| ENSG00000243910.7  | 2.695127088  | background | background | background | 4          |
| ENSG00000246922.8  | 1.109923791  | NA         | background | background | 4          |
| ENSG00000249905.8  | 1.954490133  | 5          | NA         | 5          | 4          |
| ENSG00000253309.6  | 3.738651839  | 5          | background | 5          | 4          |
| ENSG00000257767.2  | -1.043348087 | background | background | NA         | 4          |
| ENSG00000262655.3  | 1.872300294  | 5          | background | 5          | 4          |
| ENSG00000269111.3  | -1.387185044 | 5          | background | 5          | 4          |
| ENSG00000270011.6  | 1.764279415  | 5          | background | 5          | 4          |
| ENSG00000270276.2  | 1.202730449  | NA         | background | 5          | 4          |
| ENSG00000271503.5  | 2.321922791  | background | background | background | 5          |
| ENSG00000272196.2  | 1.260951187  | NA         | 5          | background | 5          |
| ENSG00000272899.3  | 1.675976887  | NA         | background | 5          | 5          |
| ENSG00000277639.2  | 2.815735717  | background | 5          | 5          | 4          |
| ENSG00000280433.1  | 1.733162191  | 5          | NA         | 5          | 5          |
| ENSG00000283761.1  | 1.129636975  | background | background | 4          | 4          |
| ENSG00000000460.16 | -1.036411163 | background | 5          | 4          | 4          |
| ENSG00000003096.14 | -1.382770361 | background | background | 4          | 4          |
| ENSG00000003137.8  | 1.82863729   | NA         | 4          | 4          | 3          |
| ENSG00000003400.14 | 1.232775195  | background | background | 4          | 4          |
| ENSEMBL | Expression Value |
|---------|------------------|
| ENSG00000004848.7 | 5.568771783 |
| ENSG00000005001.9 | 2.280864788 |
| ENSG00000005189.1 | -1.261072068 |
| ENSG00000005339.14 | 1.196120246 |
| ENSG00000005844.17 | -1.417539444 |
| ENSG00000006406.8 | 4.826986228 |
| ENSG0000000652.13 | 1.10959058 |
| ENSG00000007255.10 | -1.612960954 |
| ENSG00000007384.15 | -1.189986769 |
| ENSG00000007545.15 | 1.179071951 |
| ENSG00000008256.15 | 1.107524374 |
| ENSG00000008710.19 | 1.567797122 |
| ENSG00000008988.9 | -1.03242634 |
| ENSG00000009724.16 | 1.390495557 |
| ENSG00000010404.17 | 1.863175705 |
| ENSG00000010810.17 | 1.456972291 |
| ENSG00000010818.9 | 1.217948331 |
| ENSG00000011332.19 | 1.01327868 |
| ENSG00000011422.11 | 1.517381021 |
| ENSG00000011426.10 | -1.054678608 |
| ENSG00000011590.13 | 2.713733398 |
| ENSG00000012504.13 | -1.892021001 |
| ENSG00000014138.8 | -1.058097641 |
| ENSG00000014914.20 | 1.616918285 |
| ENSG00000018869.16 | 1.185608255 |
| ENSG00000019485.13 | 1.863175705 |
| ENSG00000021355.12 | -1.257584817 |
| ENSG00000021826.14 | -1.506138769 |
| ENSG00000021852.12 | -1.828365703 |
| ENSG00000029534.19 | 1.159519386 |
| ENSG00000029993.14 | -1.289631709 |
| ENSG00000031003.10 | 1.12785621 |
| ENSG00000032742.17 | -1.150307033 |
| ENSG00000033232.12 | 1.329802231 |
| ENSG00000034693.14 | -1.140203395 |
| ENSG00000035862.12 | 1.594188065 |
| ENSG00000037042.8 | 1.010798136 |
| Gene ID          | Expression Value | Background | 5 | 5 | 4 |
|------------------|------------------|------------|---|---|---|
| ENSG00000037897.16 | -1.099772474     | background | 5 | 5 | 4 |
| ENSG00000039139.9 | 2.921352269      | background | 5 | 5 | 4 |
| ENSG00000043355.11 | 1.287846184     | background | 5 | 5 | 5 |
| ENSG00000046647.13 | -1.015420946   | background | 5 | 5 | 4 |
| ENSG00000047365.11 | 1.472332805     | background | 5 | 5 | 4 |
| ENSG00000047457.13 | -1.362713548   | background | 5 | 5 | 4 |
| ENSG00000051180.16 | -1.009382383   | background | 5 | 5 | 4 |
| ENSG00000052344.15 | -1.238025519   | background | 5 | 5 | 4 |
| ENSG00000052841.14 | 1.286145639     | background | 5 | 5 | 4 |
| ENSG00000053371.12 | -1.432528925    | background | 5 | 5 | 4 |
| ENSG00000054179.11 | -1.432528925    | background | 5 | 5 | 4 |
| ENSG00000054967.12 | 1.075349701      | background | 5 | 5 | 4 |
| ENSG00000055957.10 | -1.152870328   | background | 5 | 5 | 4 |
| ENSG00000056736.9 | -1.231326578      | background | 5 | 5 | 4 |
| ENSG00000056998.19 | -1.208011878    | background | 5 | 5 | 4 |
| ENSG00000057593.13 | -1.323280617    | background | 5 | 5 | 4 |
| ENSG00000057657.15 | 4.73901778       | background | 5 | 5 | 4 |
| ENSG00000057704.12 | 4.025980162      | background | 5 | 5 | 4 |
| ENSG00000059122.16 | 1.239290631     | background | 5 | 5 | 4 |
| ENSG00000059573.8 | -1.00846199      | background | 5 | 5 | 4 |
| ENSG00000059728.10 | 1.715639126     | background | 5 | 5 | 4 |
| ENSG00000060762.18 | -1.326641517    | background | 5 | 5 | 4 |
| ENSG00000063169.10 | 1.012095127      | background | 5 | 5 | 4 |
| ENSG00000063438.16 | 1.317063061      | background | 5 | 5 | 4 |
| ENSG00000063761.15 | -1.291839212     | background | 5 | 5 | 4 |
| ENSG00000063854.12 | -1.059404733     | background | 5 | 5 | 4 |
| ENSG00000064195.7  | 3.136177855      | background | 5 | 5 | 4 |
| ENSG00000064199.6  | -1.184652008     | background | 5 | 5 | 4 |
| ENSG00000064300.8  | 1.797503203      | background | 5 | 5 | 4 |
| ENSG00000064886.13 | 1.446847391      | background | 5 | 5 | 4 |
| ENSG00000065029.14 | -1.107554601     | background | 5 | 5 | 4 |
| ENSG00000065618.18 | 3.338438988      | background | 5 | 5 | 4 |
| ENSG00000065675.14 | -1.441425707     | background | 5 | 5 | 4 |
| ENSG00000065923.9  | 1.245578529       | background | 5 | 5 | 4 |
| ENSG00000066739.11 | 1.279908951      | background | 5 | 5 | 4 |
| ENSG00000066933.15 | 1.354376445      | background | 5 | 5 | 4 |
| Gene ID          | Value  | Type  | Chromosome | Gene Type |
|-----------------|--------|-------|------------|-----------|
| ENSG00000067064.10 | -1.006491254 | background | 87 | 5 |
| ENSG00000067191.15 | 2.019612149 | 5 | 87 | 5 |
| ENSG00000067208.14 | 1.192708838 | 5 | 87 | 5 |
| ENSG00000067798.14 | 1.470926435 | 5 | 87 | 5 |
| ENSG00000067836.12 | -1.041075794 | 5 | 87 | 5 |
| ENSG00000068028.17 | 1.67686488 | 5 | 87 | 5 |
| ENSG00000068079.7 | -1.09586313 | 5 | 87 | 5 |
| ENSG00000068366.19 | -1.17595103 | 5 | 87 | 5 |
| ENSG00000068796.16 | -1.307440779 | 5 | 87 | 5 |
| ENSG00000068885.14 | -1.04649101 | 5 | 87 | 5 |
| ENSG00000069275.12 | -1.02462155 | 5 | 87 | 5 |
| ENSG00000069696.6 | 1.52942717 | 5 | 87 | 5 |
| ENSG00000069812.11 | 2.146470523 | 5 | 87 | 5 |
| ENSG00000070526.14 | 5.156848606 | 5 | 87 | 5 |
| ENSG00000071082.10 | -1.027496814 | 5 | 87 | 5 |
| ENSG00000071205.11 | 1.634551414 | 5 | 87 | 5 |
| ENSG00000071994.15 | -1.157979831 | 5 | 87 | 5 |
| ENSG00000072182.12 | 2.104822172 | 5 | 87 | 5 |
| ENSG00000072364.12 | 1.155296315 | 5 | 87 | 5 |
| ENSG00000072571.19 | -1.879747437 | 5 | 87 | 5 |
| ENSG00000073111.13 | -1.111456007 | 5 | 87 | 5 |
| ENSG00000073464.11 | 1.262136233 | 5 | 87 | 5 |
| ENSG00000073605.18 | 1.130996017 | 5 | 87 | 5 |
| ENSG00000074161.2 | -1.10011019 | 5 | 87 | 5 |
| ENSG00000074800.13 | -1.115930687 | 5 | 87 | 5 |
| ENSG00000075340.22 | 2.650583448 | 5 | 87 | 5 |
| ENSG00000075391.16 | 1.548186724 | 5 | 87 | 5 |
| ENSG00000075407.18 | 1.022690951 | 5 | 87 | 5 |
| ENSG00000075426.11 | 1.968256482 | NA | 87 | 5 |
| ENSG00000076003.4 | -1.497985853 | 5 | 87 | 5 |
| ENSG00000076067.12 | 1.461450405 | 5 | 87 | 5 |
| ENSG00000076662.9 | -1.01263591 | NA | 87 | 5 |
| ENSG00000077152.9 | -1.313529735 | 5 | 87 | 5 |
| ENSG00000078401.6 | 1.290615081 | 5 | 87 | 5 |
| ENSG00000078814.15 | 1.464150111 | 5 | 87 | 5 |
| ENSG00000078898.6 | -1.08932613 | background | 87 | 5 |
| ENSG00000079263.18 | 1.584184441 | background | 87 | 5 |
| ENSG00000079308.16 | 1.1014319 | 5 | 87 | 5 |
| ENSG00000079459.12 | -1.23818484 | background | 87 | 5 |
| Gene ID               | Value       | Background 1 | Background 2 | Background 3 | Background 4 |
|----------------------|-------------|--------------|--------------|--------------|--------------|
| ENSG00000092036.18   | -1.023286435| 5            | background   | 5            | background   |
| ENSG00000092094.10   | -1.061452458| background   | background   | 5            | 5            |
| ENSG00000092295.11   | 1.305410166 | 5            | background   | 4            | background   |
| ENSG00000092621.12   | -1.358792785| 5            | background   | 3            | background   |
| ENSG00000093009.9    | -1.11632351 | 5            | background   | 4            | background   |
| ENSG00000094804.9    | -1.339074613| background   | background   | 5            | 4            |
| ENSG00000095464.9    | -1.44952596 | background   | background   | 5            | 3            |
| ENSG00000095752.6    | 1.93789662  | 5            | background   | 4            | background   |
| ENSG00000095968.13   | 1.061462012 | 5            | background   | 4            | background   |
| ENSG00000099139.13   | 1.20408159  | 5            | background   | 4            | background   |
| ENSG00000099194.5    | -1.387843498| 5            | 5            | 4            | 4            |
| ENSG00000099284.13   | -1.12666542 | background   | 5            | background   | 3            |
| ENSG00000099308.10   | 1.019297791 | 5            | NA           | 4            | 4            |
| ENSG00000099624.7    | -1.091601087| 5            | 5            | 5            | background   |
| ENSG00000099800.7    | -1.07852717 | NA           | background   | 4            | 4            |
| ENSG00000099812.8    | 1.088461199 | 5            | background   | 5            | 4            |
| ENSG00000099822.2    | 1.913210331 | 5            | background   | 5            | 3            |
| ENSG00000099860.8    | 1.642290087 | 5            | background   | 5            | 5            |
| ENSG00000099901.16   | -1.205154629| 4            | background   | 5            | 4            |
| ENSG00000099937.10   | -1.327219781| background   | background   | 5            | 4            |
| ENSG00000099953.9    | -1.136211579| 5            | background   | 5            | 3            |
| ENSG00000100003.17   | 1.40847935  | background   | 5            | 4            | 3            |
| ENSG00000100028.11   | -1.030506738| background   | 5            | background   | 4            |
| ENSG00000100036.12   | 2.044667292 | NA           | 4            | 5            | 4            |
| ENSG00000100075.9    | -1.194107152| background   | background   | 5            | 4            |
| ENSG00000100079.6    | -1.646733468| background   | background   | 5            | 4            |
| ENSG00000100116.16   | -1.234180469| 5            | background   | 5            | 4            |
| ENSG00000100162.14   | -1.075463042| background   | background   | 4            | background   |
| ENSG00000100219.16   | -1.08566886 | background   | background   | 5            | 4            |
| ENSG00000100246.12   | -1.061327783| background   | background   | 4            | 4            |
| ENSG00000100290.2    | 1.435853413 | background   | background   | 5            | 4            |
| ENSG00000100297.15   | -1.335353456| 4            | background   | 5            | 4            |
| ENSG00000100316.15   | -1.077315191| 5            | background   | 5            | background   |
| ENSG00000100330.15   | 1.247472101 | 4            | background   | 3            | 3            |
| ENSG00000100354.20   | 1.006585747 | 5            | background   | 4            | 3            |
| ENSG00000100373.9    | -1.675006139| 5            | background   | 5            | 4            |
| ENSG00000100418.7    | -1.257447377| background   | 4            | 3            | 3            |
| ENSG00000100526.19   | -1.291471919| background   | background   | 4            | background   |
| Gene ID         | Log2 Fold Change | p-value | Strain 1 | Strain 2 | Strain 3 |
|----------------|-----------------|---------|----------|----------|----------|
| ENSG00000100577.18 | -1.288294914    | 5       | background | 5        | 3        |
| ENSG00000100604.12 | 5.092380814     | background | 5        | 5        | 4        |
| ENSG00000100665.11 | -1.457951427    | 5       | background | background | 5        |
| ENSG00000100714.15 | -1.041493802    | 5       | background | background | 4        |
| ENSG00000100749.7 | -1.617324216    | 4       | background | background | 4        |
| ENSG00000100784.10 | 1.487963914     | 5       | background | background | 4        |
| ENSG00000100823.11 | -1.162259993    | background | background | background | 4        |
| ENSG00000100889.11 | -1.355314116    | background | 5        | background | 4        |
| ENSG00000101000.5 | 1.26819359     | NA      | background | 5        | 4        |
| ENSG00000101057.15 | -1.054837373   | 5       | background | 5        | 3        |
| ENSG00000101115.12 | 1.146985726    | background | background | background | 3        |
| ENSG00000101188.4 | 1.39686745      | background | 5        | background | 1        |
| ENSG00000101210.10 | 1.02971109     | 4       | 5        | 4        | 4        |
| ENSG00000101213.6 | 2.990803002     | 5       | background | background | 5        |
| ENSG00000101384.11 | 1.449219305    | background | 4        | 3        |
| ENSG00000101695.8 | 1.081542365    | 5       | 4        | 4        | 4        |
| ENSG00000101745.16 | 1.571638441    | 5       | background | 5        | 4        |
| ENSG00000101868.10 | -1.276233654   | background | 5        | 2        | 2        |
| ENSG00000101955.14 | 2.690816085    | background | background | background | 3        |
| ENSG00000102034.16 | 1.021359883    | 5       | 5        | 5        | 4        |
| ENSG00000102048.15 | -1.291054021   | background | background | background | 4        |
| ENSG00000102144.13 | -1.22249268    | 5       | 5        | 5        | 4        |
| ENSG00000102181.20 | -1.00004523    | NA      | background | background | 3        |
| ENSG00000102287.18 | 1.419105931    | 5       | background | 4        | 3        |
| ENSG00000102384.13 | -1.385894853   | 5       | 5        | background | 4        |
| ENSG00000102554.13 | 2.836250998    | 5       | background | background | 4        |
| ENSG00000102760.12 | 2.128718014    | NA      | background | background | 4        |
| ENSG00000102908.20 | 1.946223065    | 5       | 5        | 5        | 3        |
| ENSG00000102967.11 | -1.006591351   | background | 5        | 4        |
| ENSG00000103044.10 | 1.470846629    | NA      | background | 5        | 4        |
| ENSG00000103260.8 | -1.168402055   | background | 5        | 4        |
| ENSG00000103507.13 | -1.429053042   | background | 5        | 4        |
| ENSG00000103740.9 | -1.413118399   | 5       | 5        | 5        | 4        |
| ENSG00000103876.11 | -1.154877609   | 5       | background | background | 4        |
| ENSG00000104147.8 | -1.08082452    | background | background | background | 4        |
| ENSG00000104497.13 | 1.27004072     | background | background | background | 4        |
| ENSG00000104524.13 | -1.071357353   | background | 4        | 4        |
| ENSG00000104689.9 | 1.609000546    | background | background | background | 4        |
| ENSG00000104738.16 | -1.177593985   | 5       | background | background | 4        |
| ENSG00000104823.8 | -1.45772085    | 4       | 5        | background | 4        |
| Gene ID               | Value         | Column 1 | Column 2 | Column 3 | Column 4 |
|----------------------|---------------|----------|----------|----------|----------|
| ENSG00000104881.15   | 1.172534429   | 4        | background | 5        | 3        |
| ENSG00000104886.11   | -1.214053045  | background | background | 5        | 5        |
| ENSG00000104888.9    | 2.219658886   | 5        | background | 4        | 3        |
| ENSG00000104889.5    | -1.39948364   | 5        | background | background | 4        |
| ENSG00000104894.11   | 1.919962587   | background | 5        | 5        | 4        |
| ENSG00000104983.8    | -1.058911518  | 5        | background | background | 4        |
| ENSG00000105011.8    | -1.225182326  | background | 5        | 5        | 4        |
| ENSG00000105204.13   | 1.849268846   | 4        | 5        | 5        | 3        |
| ENSG00000105246.5    | 1.469201375   | 5        | background | background | 4        |
| ENSG00000105258.8    | -1.07617622   | 5        | background | background | 5        |
| ENSG00000105287.12   | 1.360531294   | background | 5        | 4        | 3        |
| ENSG00000105287.12   | 1.360531294   | 4        | 5        | 4        | 3        |
| ENSG00000105327.17   | 1.359483345   | 5        | 5        | 5        | 4        |
| ENSG00000105339.10   | 2.181845579   | background | background | 5        | 2        |
| ENSG00000105464.3    | 1.717861354   | 5        | background | 5        | 3        |
| ENSG00000105538.9    | 1.462303727   | 5        | background | background | 4        |
| ENSG00000105607.12   | -1.10448759   | background | 5        | background | 3        |
| ENSG00000105642.15   | 3.365944189   | NA       | background | 5        | 4        |
| ENSG00000105642.15   | 3.365944189   | 5        | background | 5        | 4        |
| ENSG00000105643.9    | 1.447828431   | background | background | background | 4        |
| ENSG00000105650.21   | 1.31606382    | 5        | 5        | 3        | 3        |
| ENSG00000105697.7    | -1.438303525  | NA       | background | 5        | 4        |
| ENSG00000105707.13   | -1.209600582  | background | 5        | background | 4        |
| ENSG00000105755.7    | -1.202284132  | background | background | background | 3        |
| ENSG00000105771.13   | 1.07449796    | 4        | 4        | 5        | 4        |
| ENSG00000105784.15   | -1.405696612  | 5        | background | background | 4        |
| ENSG00000105852.10   | -1.414779429  | background | background | background | 3        |
| ENSG00000106049.8    | -1.135203379  | background | background | background | 4        |
| ENSG00000106077.18   | -1.313272672  | background | background | background | 4        |
| ENSG00000106305.9    | -1.088657787  | background | background | background | 4        |
| ENSG00000106327.12   | -1.138438917  | 5        | background | 5        | 4        |
| ENSG00000106355.9    | -1.295178901  | background | background | 5        | 4        |
| ENSG00000106399.11   | -1.006750494  | 4        | 4        | background | 4        |
| ENSG00000106400.11   | -1.046357767  | 5        | 5        | background | 4        |
| ENSG00000106415.12   | 1.326162681   | background | 5        | background | 4        |
| ENSG00000106628.10   | -1.191022019  | 5        | 5        | background | 4        |
| ENSG00000106686.16   | 1.276585992   | background | background | background | 3        |
| ENSG00000106804.7    | -1.548461675  | 5        | background | background | 4        |
| ENSG00000106829.18   | 1.04978289    | 4        | 5        | 5        | 4        |
| ENSG00000106852.15   | 1.789652919   | background | 4        | 5        | 4        |
| ENSG00000107020.9    | -1.602432843  | background | background | background | 3        |
| Gene ID          | Expression Value | P-value  | Fold Change | Background |   |   |
|-----------------|------------------|----------|-------------|-----------|---|---|
| ENSG00000107147.12 | 3.126827851      | 4        | background  | 5         | 3 |
| ENSG00000107159.12 | -1.621052986     | 4        | background  | 5         | 4 |
| ENSG00000107223.12 | -1.010765431     | background| background | 5         |   |
| ENSG00000107281.9  | 1.112300595      | 5        | 4           | 5         | 4 |
| ENSG00000107371.12 | -1.029538709     | background| background | 4         |    |
| ENSG00000107551.20 | -1.219364847     | background| background | 4         |    |
| ENSG00000107554.16 | 1.082815289      | background| background | 4         |    |
| ENSG00000107614.21 | -1.006308315     | background| background | 3         |    |
| ENSG00000107738.19 | 1.18087802       | 4        | 3           |           |   |
| ENSG00000107807.12 | 3.909820524      | 5        | 5           |           |   |
| ENSG00000107902.13 | -1.694684875     | background| background | 3         |   |
| ENSG00000108342.12 | 2.89032597       | background| background | 5         | 5 |
| ENSG00000108387.14 | -1.899249988     | background| background | 5         | 4 |
| ENSG00000108417.3  | 3.478956366      | background| NA          | 5         | 5 |
| ENSG00000108448.21 | 1.03998002       | background| background | 5         | 4 |
| ENSG00000108479.11 | -1.464314708     | background| background | 5         | 3 |
| ENSG00000108510.9  | 1.111722554      | 4 background| background | 5         | 3 |
| ENSG00000108528.13 | -1.36086072      | 5        | background  | 4         |   |
| ENSG00000108551.4  | 2.447302376      | NA       | 4 background|           |   |
| ENSG00000108576.9  | -1.430777906     | 5        | 5           |           |   |
| ENSG00000108602.17 | 3.16977594       | 4        | background  | 4         |   |
| ENSG00000108641.14 | -1.67008852      | background| background | 3         |   |
| ENSG00000108819.10 | 1.010821229      | 5 background| background | 5         | 3 |
| ENSG00000108825.17 | 1.053705289      | background| background | 4         |   |
| ENSG00000108854.15 | 1.029139764      | 5        | background  | 4         |   |
| ENSG00000108984.13 | -1.518657448     | background| background | 2         |   |
| ENSG00000109084.13 | -1.296114912     | 5        | 5           |           |   |
| ENSG00000109107.13 | -1.384540865     | 5        | 5           |           |   |
| ENSG00000109181.11 | -1.10574986      | background| background | 5         |   |
| ENSG00000109205.16 | -1.496317173     | background| background | 5         |   |
| ENSG00000109220.10 | 1.246324666      | 5        | background  | 4         |   |
| ENSG00000109674.3  | -1.247297576     | background| background | 3         |   |
| ENSG00000109846.7  | 2.436890553      | NA       | background  |           |   |
| ENSG00000110046.12 | 1.006164493      | 4        | background  | 5         |   |
| ENSG00000110244.6  | -1.421914412     | background| background | 5         | 5 |
| ENSG00000110245.11 | -1.93291066      | 5        | 5           |           |   |
| ENSG00000110514.19 | 1.081850461      | 5        | background  | 5         | 3 |
| ENSG00000110841.13 | 1.153383729      | 5        | background  | 4         | 3 |
| ENSG00000110871.14 | -1.043441427     | background| background | 4         |   |
| ENSG00000110876.9  | 3.010741918      | NA       | background  | 5         | 4 |
| ENSG00000111145.7  | 1.08185002       | background| background | 5         | 3 |
| ID              | Value           | Background | Num1 | Num2 | Num3 |
|-----------------|-----------------|------------|------|------|------|
| ENSG00000111275.12 | -1.113831358    | background | 5    | 4    | 4    |
| ENSG00000111291.8  | 2.740180098     | NA         | NA   | NA   | 4    |
| ENSG00000111445.13 | -1.071355046    | 5          | background | background | 4 |
| ENSG00000111481.9  | -1.035526523    | background | background | background | 2 |
| ENSG00000111640.14 | -1.039192624    | 0          | 5    | background | 0    |
| ENSG00000111665.11 | -1.561306281    | background | 5    | background | 4    |
| ENSG00000111669.14 | -1.078247084    | 5          | background | 5    | 5    |
| ENSG00000111700.12 | -1.916359964    | background | background | background | 4 |
| ENSG00000111726.12 | -1.320827136    | background | background | background | 4 |
| ENSG00000111727.11 | 1.171628174     | background | background | background | 4 |
| ENSG00000111728.10 | 1.871672503     | 5          | 5    | 5    | 3    |
| ENSG00000111860.13 | 1.704134641     | background | background | background | 2 |
| ENSG00000111961.17 | 1.039017884     | 5          | background | 5    | 4    |
| ENSG00000112183.14 | 1.929369442     | 5          | 5    | 5    | 3    |
| ENSG00000112234.8  | -1.490021952    | 5          | background | background | 4 |
| ENSG00000112297.14 | -1.127304556    | 5          | background | 5    | 3    |
| ENSG00000112343.10 | 1.149563954     | 4          | background | 4    | 4    |
| ENSG00000112406.4  | 1.867236745     | 5          | background | 4    | 4    |
| ENSG00000112419.14 | 1.53646023      | 5          | background | background | 4 |
| ENSG00000112494.9  | -1.820203958    | 5          | background | background | 4 |
| ENSG00000112561.17 | 1.545082171     | 5          | background | 5    | 3    |
| ENSG00000112667.12 | -1.35635139     | NA         | background | background | 5 |
| ENSG00000112706.11 | 2.93879077      | 4          | background | background | 4 |
| ENSG00000112763.15 | 1.407258607     | 5          | background | 5    | 3    |
| ENSG00000112818.9  | -1.444461221    | background | background | background | 4 |
| ENSG00000112972.14 | -1.450494949    | background | background | background | 4 |
| ENSG00000112984.11 | -1.147832713    | background | background | background | 4 |
| ENSG00000113070.7  | 2.251315176     | background | 5    | background | 3    |
| ENSG00000113083.13 | -1.581582347    | background | 5    | 5    | 4    |
| ENSG00000113368.11 | -1.211015629    | 5          | 5    | background | 4    |
| ENSG00000113369.8  | 1.71740752      | background | background | background | 3    |
| ENSG00000113494.16 | -1.061468911    | 5          | background | 4    | 4    |
| ENSG00000113595.14 | 1.065491456     | 5          | background | background | 3    |
| ENSG00000113719.15 | -1.041097969    | 4          | background | 5    | 3    |
| ENSG00000113742.12 | 1.404965311     | 5          | 5    | 4    | 4    |
| ENSG00000113790.10 | -1.008726268    | background | background | background | 3    |
| ENSG00000113889.11 | -1.402478991    | 5          | background | 5    | 4    |
| ENSG00000114023.15 | -1.299304159    | background | background | background | 3    |
| ENSG00000114166.7  | 1.11223486      | 5          | background | 5    | 3    |
| ENSG00000114270.17 | 1.458082151     | 5          | background | 5    | 2    |
| ENSG00000114395.10 | -1.01572401     | background | background | background | 4    |
| Gene ID           | Log2 Fold Change | Annotation 1 | Annotation 2 | Annotation 3 | Annotation 4 | Annotation 5 |
|------------------|------------------|--------------|--------------|--------------|--------------|--------------|
| ENSG00000114491.13 | -1.102349026     | background   | background   | 4            | 4            |
| ENSG00000114529.12 | 1.26388098       | 5            | background   | background   | 4            |
| ENSG00000114757.18 | 1.611322865      | background   | 4            | 5            | 3            |
| ENSG00000114786.16 | -1.433406645     | 5            | NA           | NA           | 4            |
| ENSG00000114796.15 | 1.037913524      | background   | background   | background   | 4            |
| ENSG00000115053.15 | -1.13852399      | 5            | background   | background   | 4            |
| ENSG00000115073.7 | -1.106587812     | background   | background   | background   | 4            |
| ENSG00000115085.13 | 2.090798783      | background   | background   | background   | 1            |
| ENSG00000115107.19 | -1.400055119     | 5            | background   | background   | 3            |
| ENSG00000115112.7 | 2.92250162       | 5            | background   | 4            | 3            |
| ENSG00000115159.15 | -4.080136179     | background   | background   | 5            | 3            |
| ENSG00000115255.10 | -1.336053044     | background   | background   | background   | 5            | 4            |
| ENSG00000115266.11 | 1.183679031      | 5            | background   | 4            | 3            |
| ENSG00000115295.19 | 2.451686369      | background   | background   | 5            | 4            |
| ENSG00000115425.13 | -1.319136945     | background   | 5            | background   | 3            |
| ENSG00000115641.18 | 1.017024398      | 4            | background   | background   | 3            |
| ENSG00000115844.10 | 1.857341453      | background   | 4            | 5            | 4            |
| ENSG00000115963.13 | 2.041853023      | 4            | 5            | background   | 4            |
| ENSG00000115977.18 | 1.167540162      | 5            | 5            | 4            | 3            |
| ENSG00000116014.9 | -1.735013919     | background   | background   | background   | 4            |
| ENSG00000116062.14 | -1.077786932     | 5            | background   | background   | 3            |
| ENSG00000116120.9 | -1.153641295     | background   | background   | background   | 4            |
| ENSG00000116176.6 | 2.869786052      | 4            | background   | 5            | 4            |
| ENSG00000116299.16 | 1.784108079      | 4            | 5            | 5            | 3            |
| ENSG00000116329.10 | 1.647066495      | 5            | background   | 4            | 3            |
| ENSG00000116353.15 | -1.067649584     | background   | background   | 5            | 4            |
| ENSG00000116396.14 | 1.019044684      | 4            | NA           | 5            | 3            |
| ENSG00000116584.17 | 1.137064304      | 3            | background   | 4            | 2            |
| ENSG00000116604.17 | 1.400747397      | 5            | background   | 4            | 4            |
| ENSG00000116649.9  | -1.018538043     | 4            | background   | 5            | 4            |
| ENSG00000116701.14 | 1.780176595      | 5            | background   | 3            |
| ENSG00000116717.11 | 1.442323117      | NA           | background   | background   | 5            |
| ENSG00000116717.11 | 1.442323117      | 5            | background   | background   | 5            |
| ENSG00000116771.5  | -1.417651696     | background   | background   | 5            | 5            |
| ENSG00000116815.15 | 1.140329186      | background   | background   | background   | 3            |
| ENSG00000116954.7  | 1.166885167      | background   | background   | background   | 4            |
| ENSG00000116991.10 | 2.700973751      | 5            | background   | background   | 3            |
| ENSG00000117036.11 | 1.130855759      | background   | background   | background   | 3            |
| ENSG00000117143.13 | -1.007328803     | 5            | background   | 4            |
| ENSG00000117148.7  | -1.386877077     | NA           | 5            | background   | 4            |
| ENSG00000117151.12 | -1.115631703     | background   | background   | background   | 4            |
| Gene | Log2 Fold Change | Background | Expression | Expression | Expression | Expression |
|------|------------------|------------|------------|------------|------------|------------|
| ENSG00000117155.16 | -1.320354179 | background | background | background | 4          |
| ENSG00000117399.13 | -1.068108909 | 5          | background | background | 4          |
| ENSG00000117616.17 | 1.707176444 | background | background | background | 3          |
| ENSG00000117834.12 | -1.525608063 | 5          | background | 5          | 4          |
| ENSG00000118200.14 | 1.03225321   | background | background | background | 3          |
| ENSG00000118257.16 | 1.001090678  | 5          | background | background | 3          |
| ENSG00000118369.12 | 1.79219706   | 4          | 5          | 5          | 4          |
| ENSG00000118402.5  | 2.372503042  | background | 5          | 5          | 5          |
| ENSG00000119203.13 | -1.159780162 | background | background | background | 4          |
| ENSG00000119227.7  | -1.195415256 | background | background | 5          | 3          |
| ENSG00000119333.11 | -1.041414143 | 5          | background | background | 4          |
| ENSG00000119508.17 | 2.286049631  | 5          | 4          | background | 4          |
| ENSG00000119535.17 | -1.007484109 | 2          | background | background | 2          |
| ENSG00000119630.13 | 1.162865063  | 5          | 5          | 4          | 4          |
| ENSG00000119711.12 | -1.70733027  | 5          | background | 4          | 4          |
| ENSG00000119737.5  | 1.404440628  | NA         | background | background | 5          |
| ENSG00000119771.14 | 1.869007195  | 5          | 5          | 5          | 2          |
| ENSG00000119801.12 | 1.076868879  | NA         | background | background | 4          |
| ENSG00000119913.4  | -1.018229044 | 5          | NA         | background | 4          |
| ENSG00000119927.13 | -1.462591097 | background | background | 5          | 4          |
| ENSG00000119943.12 | 1.790071515  | 5          | background | background | 4          |
| ENSG00000120278.15 | 1.825512637  | 5          | background | 5          | 3          |
| ENSG00000120437.8  | -1.419680541 | background | 5          | background | 4          |
| ENSG00000120471.15 | 3.026990754  | background | background | 5          | 4          |
| ENSG00000120509.10 | -1.088777703 | background | background | 5          | 5          |
| ENSG00000120738.7  | 2.595467833  | NA         | 5          | 5          | 5          |
| ENSG00000120868.13 | 1.281469161  | background | background | 4          | 4          |
| ENSG00000120875.8  | 2.026336162  | 2          | 5          | 5          | 4          |
| ENSG00000120937.8  | 4.429639638  | background | background | 5          | 5          |
| ENSG00000121211.7  | -1.249802483 | background | background | 5          | 4          |
| ENSG00000121281.12 | 1.343815218  | 4          | background | 5          | 3          |
| ENSG00000121691.4  | -1.323110257 | background | background | 4          | 4          |
| ENSG00000121858.10 | -1.034794611 | background | background | 4          | 4          |
| ENSG00000121895.7  | 2.454400352  | 2          | background | background | 3          |
| ENSG00000122008.15 | 1.104184043  | background | background | 5          | 4          |
| ENSG00000122335.13 | 1.103060322  | background | background | 5          | 4          |
| ENSG00000122565.18 | -1.01187624  | background | background | 4          | 4          |
| ENSG00000122694.15 | -1.508453739 | background | background | 4          | 3          |
| ENSG00000122787.14 | -1.376762454 | background | background | 3          | 3          |
| ENSG00000122863.5  | 1.060265808  | background | background | 4          | 4          |
| ENSG00000122870.11 | 1.025791993  | 5          | background | background | 4          |
| Gene ID       | Value     | Type   | Background | Value | Type   |
|--------------|-----------|--------|------------|-------|--------|
| ENSG00000122877.15 | 2.570127782 | NA     | background | 5     | 4      |
| ENSG00000122952.16 | -1.131967972 | background | background | background | 4      |
| ENSG00000123094.15 | 1.517170069 | background | background | background | 3      |
| ENSG00000123219.12 | -1.064773608 | background | background | background | 3      |
| ENSG00000123342.15 | 2.248596727 | background | background | background | 4      |
| ENSG00000123374.10 | -1.140700011 | background | background | background | 4      |
| ENSG00000123405.13 | -1.269256181 | background | background | background | 4      |
| ENSG00000123453.17 | -1.239532528 | 5 background | background | 2      |
| ENSG00000123561.14 | -1.061409826 | 5 background | 5      | 4      |
| ENSG00000123836.14 | 1.013019545 | 5 background | 5      | 4      |
| ENSG00000123908.11 | 1.135663528 | 5 background | 3      | 3      |
| ENSG00000124171.8 | 1.408899392 | background | 4      | 5      | 4      |
| ENSG00000124209.3 | 1.214785826 | background | 4      | 4      | 4      |
| ENSG00000124216.3 | 1.153647767 | NA background | 5      | 4      | 4      |
| ENSG00000124225.15 | 3.285440543 | background | 5      | 5      | 4      |
| ENSG00000124253.10 | -1.021188813 | 5      | 5      | 4      | 4      |
| ENSG00000124343.12 | 4.434805806 | NA background | background | 4      |
| ENSG00000124523.15 | -1.019922889 | 5 background | 4      | 4      | 4      |
| ENSG00000124602.9 | 1.188621554 | 5 background | 5      | 4      | 4      |
| ENSG00000124613.8 | 1.089984125 | background | 5      | 4      | 4      |
| ENSG00000124635.8 | 2.560057383 | NA NA NA | NA      | 4      |
| ENSG00000124762.13 | 1.430488917 | NA background | 5      | 4      | 4      |
| ENSG00000124766.6 | 1.429843775 | NA      | 5      | 3      | 3      |
| ENSG00000125144.13 | -2.022280835 | NA      | 5      | 4      | 4      |
| ENSG00000125246.15 | -1.250608935 | background NA background | 3      |
| ENSG00000125266.6 | 1.449758448 | background | 5      | 4      | 4      |
| ENSG00000125355.15 | -1.007668761 | 5 background | background | 3      |
| ENSG00000125510.15 | 1.340546644 | 5      | 5      | 4      | 3      |
| ENSG00000125551.18 | 5.659134686 | background background | background | 4      |
| ENSG00000125611.15 | -1.040466189 | background | background | 5      | 4      |
| ENSG00000125648.14 | -1.164467281 | 5 background | 5      | 3      | 3      |
| ENSG00000125650.4 | 1.114367499 | NA NA NA | NA      | 4      |
| ENSG00000125657.4 | 1.074088275 | background background | 5      | 4      | 4      |
| ENSG00000125740.13 | 1.275461467 | NA background | 4      | 2      |
| ENSG00000125772.12 | 1.237246825 | background | 5      | 4      | 4      |
| ENSG00000125775.14 | 1.260198301 | background | 5      | 5      | 4      |
| ENSG00000125910.5 | 2.65757999 | NA background | background | 4      |
| ENSG00000125966.9 | 1.511299277 | 5 background | 4      | 3      | 3      |
| ENSG00000125998.7 | 2.86543518 | background background | background | 4      |
| ENSG00000126106.13 | -1.101630889 | background background | 5      | 4      | 4      |
| ENSG00000126246.9 | -1.533002724 | 5 background | 5      | 5      | 4      |
| Gene Symbol | Start Coordinate | End Coordinate | Score | Stratification | Background | Fold Change | Significance | Raw Data Value | Strain  |
|-------------|------------------|----------------|-------|----------------|------------|-------------|--------------|----------------|---------|
| ENSG00000126259.19 | 87 | -1.703587807 | 5 | background | background | 4 |
| ENSG00000126353.3 | 87 | 2.200392684 | background | background | 5 | 5 |
| ENSG00000126522.16 | 87 | -1.206963737 | 5 | background | background | 4 |
| ENSG00000126602.10 | 87 | -1.30098158 | 5 | background | background | 4 |
| ENSG00000126705.13 | 87 | 1.59765895 | 5 | 3 | 3 |
| ENSG00000126787.12 | 87 | -2.161983065 | background | background | background | 4 |
| ENSG00000126878.12 | 87 | -1.055947116 | background | background | 5 | 3 |
| ENSG00000127084.17 | 87 | 1.388718141 | background | background | 5 | 3 |
| ENSG00000127419.16 | 87 | -1.147585 | background | background | background | 4 |
| ENSG00000127666.9 | 87 | 1.255703274 | NA | background | background | 4 |
| ENSG00000127831.10 | 87 | -1.343693466 | background | background | background | 3 |
| ENSG00000127955.15 | 87 | 1.004542635 | background | background | 5 | 4 |
| ENSG00000127980.15 | 87 | -1.098185897 | background | background | background | 4 |
| ENSG00000128050.8 | 87 | -1.06510981 | background | background | 5 | 4 |
| ENSG00000128274.15 | 87 | 1.843821018 | NA | background | background | 5 |
| ENSG00000128285.4 | 87 | 1.794011782 | NA | background | background | 5 | 5 |
| ENSG00000128342.4 | 87 | 1.813409308 | background | background | 5 | 4 |
| ENSG00000128346.10 | 87 | 1.48078147 | background | background | 5 | 4 |
| ENSG00000128422.15 | 87 | 1.441299147 | background | 5 | 4 |
| ENSG00000128510.10 | 87 | 2.464831457 | background | background | 5 | 4 |
| ENSG00000128564.6 | 87 | 1.014055275 | NA | background | 5 | 4 |
| ENSG00000128567.16 | 87 | 1.148573265 | background | background | background | 3 |
| ENSG00000128581.15 | 87 | -1.15137451 | background | background | 5 | 5 |
| ENSG00000128645.14 | 87 | -1.176128438 | NA | background | 5 | 5 |
| ENSG00000128805.14 | 87 | 2.583593485 | background | background | 5 | 3 |
| ENSG00000128917.6 | 87 | 2.18532934 | background | 5 | 5 | 3 |
| ENSG00000128918.14 | 87 | 1.560735724 | background | 5 | 4 | 3 |
| ENSG00000128951.13 | 87 | -1.09301506 | background | background | 5 |
| ENSG00000129167.9 | 87 | -1.863763121 | background | background | 5 | 5 |
| ENSG00000129173.12 | 87 | -1.375984467 | background | background | 5 |
| ENSG00000129195.15 | 87 | -1.208744027 | background | 5 | 3 |
| ENSG00000129235.10 | 87 | -1.226733881 | background | background | 5 |
| ENSG00000129353.14 | 87 | 2.985185852 | background | 5 | 4 | 4 |
| ENSG00000129354.11 | 87 | -1.002457123 | background | 5 | 4 | 4 |
| ENSG00000129467.13 | 87 | 4.835724103 | background | background | 3 |
| ENSG00000129566.12 | 87 | 1.592606309 | 4 | background | 5 | 4 |
| ENSG00000129646.14 | 87 | 1.224273697 | background | background | 4 |
| ENSG00000129654.7 | 87 | 1.582828683 | background | 4 | 4 |
| ENSG00000129910.7 | 87 | -1.7940928 | background | background | 4 |
| ENSG00000130005.12 | 87 | -1.732265037 | background | 5 | 4 |
| ENSG00000130021.13 | 87 | -1.194918987 | 4 | 5 | background | 4 |
| Gene ID          | Value            | Name       | Score  | Fold Change | Background |
|-----------------|------------------|------------|--------|-------------|------------|
| ENSG00000130176.7 | 1.026110296      | background | 5      | 5           | 4          |
| ENSG00000130193.7 | -1.29849882      | NA         | background | 4           | 4          |
| ENSG00000130208.9 | -1.062882377     | background | background | 5           | 5          |
| ENSG00000130283.8 | -7.15904979      |           | 5      | 5           | background |
| ENSG00000130307.11 | 1.189302585      |           | 5      | background  | background |
| ENSG00000130313.6 | -1.08980271      | NA         | background | 3           | 3          |
| ENSG00000130338.12 | 1.102396893      |           | 3      | 5           | 4          |
| ENSG00000130427.2 | -1.54561793      |           | 5      | 4           | 5          |
| ENSG00000130449.5 | 1.063431778      |           | 5      | NA          | background |
| ENSG00000130513.6 | 2.80574137       | NA         | background | 3           | 3          |
| ENSG00000130520.10 | -1.431908511     | background | 5      | 4           | 4          |
| ENSG00000130598.15 | -1.68795793      | background | NA     | 5           | 4          |
| ENSG00000130638.16 | -1.028097483     | background | 4      | 4           | 3          |
| ENSG00000130653.15 | -1.217549946     | background | 5      | 3           |            |
| ENSG00000130707.17 | -1.360656408     | background | 5      | background  | 3          |
| ENSG00000130711.3 | 2.228115828      |           | 5      | 5           | 4          |
| ENSG00000130751.9 | 1.159776004      | background | 5      | background  | background |
| ENSG00000130766.4 | 1.311145319      |           | 5      | 5           | 4          |
| ENSG00000130772.13 | 1.066639217      | background | 4      | 4           | 4          |
| ENSG00000130783.13 | 1.955451019      | background | background | 4           | 4          |
| ENSG00000130787.13 | 1.138071785      | background | 4      | background  | 3          |
| ENSG00000130829.17 | -1.092223145     | NA         | background | 5           | 5          |
| ENSG00000130988.12 | -1.09852778      | background | background | 4           |            |
| ENSG00000130997.16 | -1.703773473     | background | NA     | background  | 3          |
| ENSG00000131018.22 | 1.02952926       |           | 4      | background  | 3          |
| ENSG00000131080.14 | 1.241562408      |           | 4      | background  | 3          |
| ENSG00000131115.15 | 1.160361786      | background | background | 4           | 4          |
| ENSG00000131153.8 | -1.265960484     | background | background | 5           | 5          |
| ENSG00000131242.17 | -1.15546304      | background | 5      | background  | 3          |
| ENSG00000131386.17 | -1.957360664     | background | 5      | 5           | 4          |
| ENSG00000131480.8 | 1.438489477      | background | background | 4           | 4          |
| ENSG00000131482.9 | -1.374772947     | background | background | 5           | 5          |
| ENSG00000131711.14 | 1.08980165       |           | 5      | 5           | 3          |
| ENSG00000131747.14 | -1.018030505     | background | background | 5           | 5          |
| ENSG00000131781.12 | -1.598357967     | background | background | 4           |            |
| ENSG00000132003.9 | 1.249943557      |           | 5      | background  | 4          |
| ENSG00000132005.8 | 1.061387666      |           | 5      | background  | 3          |
| ENSG00000132016.11 | 1.656178082      | background | 5      | 4           |            |
| ENSG00000132141.13 | -1.538238118     | background | background | 4           |            |
| ENSG00000132182.11 | -1.237898772     |           | 5      | background  | 3          |
| ENSG00000132394.10 | -1.089373715     | background | 5      | 3           |            |
| Gene          | Log2 Fold Change | Description | Feature 1 | Feature 2 | Feature 3 | Feature 4 | Feature 5 |
|--------------|-----------------|-------------|-----------|-----------|-----------|-----------|-----------|
| ENSG00000132437.17 | -2.199790574     | background  | background | background | background | 3         |
| ENSG00000132510.10  | 1.23648975       | 3           | background | background | 4         | 3         |
| ENSG00000132535.18  | 1.322188288      | 4           | 3          | 4          | 4         | 3         |
| ENSG00000132669.12  | 1.406137622      | background  | background | 5          | 4         |
| ENSG00000132718.8    | 2.270582714      | background  | background | 4          | 4         |
| ENSG00000132744.7    | -2.367193895     | 4           | background | background | 3         |
| ENSG00000132763.14  | -1.011203357  NA | background  | background | 4          | 4         |
| ENSG00000132837.14  | -1.464814586      | 5           | background | 4         |
| ENSG00000132854.18  | -1.079597105     | background  | background | 4         |
| ENSG00000132932.16  | 3.38695925       | background  | background | 4          | 3         |
| ENSG00000132938.19  | 4.698865261      | background  | background | 5          | 4         |
| ENSG00000133027.17  | -1.033749909     | background  | background | 3         |
| ENSG00000133392.17  | 1.094182076      | 5           | background | NA         | 4         |
| ENSG00000133401.15  | 3.269693073      | 4           | background | 5          | 3         |
| ENSG00000133454.15  | 2.556363819      | 5           | 5          | 5          | 4         |
| ENSG00000133739.15  | -1.676895521     | background  | 5          | 5          | 4         |
| ENSG00000133789.14  | 1.175750199      | background  | background | 5          | 4         |
| ENSG00000133805.15  | 1.356002597      | 5           | 4          | background | 1         |
| ENSG00000133835.14  | -1.222432937     | background  | background | 3         |
| ENSG00000133858.15  | 1.297359816      | background  | background | 4         |
| ENSG00000134057.14  | -1.259806043     | NA          | background | background | 4         |
| ENSG00000134222.16  | -1.350170102     | 5           | background | 5          | 5         |
| ENSG00000134242.15  | 2.994863782      | 5           | background | background | 4         |
| ENSG00000134245.17  | 1.543813564      | 4           | 4          | 5          | 4         |
| ENSG00000134333.13  | -1.182646284     | 5           | background | 5          | 4         |
| ENSG00000134363.11  | 1.179059525      | 4           | 5          | 4         |
| ENSG00000134463.14  | -4.854698067     | background  | background | 5          | 4         |
| ENSG00000134531.9    | 1.414806409      | background  | background | 4          | 4         |
| ENSG00000134668.12   | 2.036825982      | 5           | background | 5          | 4         |
| ENSG00000134762.16   | 2.198657654      | 5           | 5          | 5          | 4         |
| ENSG00000134779.14   | -1.072021667     | background  | 5          | 5          | 4         |
| ENSG00000134780.9    | 1.354389988      | 4           | background | 3          | 2         |
| ENSG00000134802.17    | -1.940559183     | 5           | background | background | 4         |
| ENSG00000134824.13    | -1.585371151     | background  | background | 5          | 3         |
| ENSG00000134825.15    | -1.084293526     | 5           | background | background | 3         |
| ENSG00000134830.5     | 1.378362494     NA | background  | background | 5          | 4         |
| ENSG00000134864.10    | -1.469496905     | background  | background | 5          | 4         |
| ENSG00000134954.14    | 2.233973265      | background  | background | background | 3         |
| ENSG00000134986.13    | -1.291624451     | background  | background | 3         |
| ENSG00000135046.13    | 1.888507803      | background  | background | background | 5         |
| ENSG00000135116.9     | 4.492308193     NA | background  | background | 5          | 4         |
| Gene ID          | Value         | Background | Value         | Background |
|-----------------|---------------|------------|---------------|------------|
| ENSG00000135220.10 | -1.2567777976 | background | background    | 5          |
| ENSG00000135390.17 | -1.118039293  | 5          | background    | 4          |
| ENSG00000135439.11 | 1.444602043   | 5          | background    | 4          |
| ENSG00000135441.7  | -1.095207138  | background | background    | 5          |
| ENSG00000135446.16 | -1.322446459  | 5          | background    | 4          |
| ENSG00000135625.7   | 3.5685359     | NA         | background    | 5          |
| ENSG00000135678.11 | 2.410290412   | 5          | background    | 4          |
| ENSG00000135679.22 | 1.12725692    | 4          | background    | 4          |
| ENSG00000135744.7  | -1.239602862  | 4          | 5            | 4          |
| ENSG00000135903.18 | 5.377382312   | 4          | 5            | 4          |
| ENSG00000135919.12 | 1.242705319   | 4          | background    | 3          |
| ENSG00000135924.15 | 1.044920779   | background | 5            | 4          |
| ENSG00000135940.6  | -1.076094196  | background | background    | 5          |
| ENSG00000136010.13 | -1.206618528  | background | background    | 4          |
| ENSG00000136267.13 | 4.490320262   | 5          | background    | 4          |
| ENSG00000136279.20 | -1.13612027   | background | background    | 4          |
| ENSG00000136518.16 | -1.014972737  | 5          | background    | 4          |
| ENSG00000136535.14 | 2.378029123   | background | background    | 5          |
| ENSG00000136802.11 | 1.153850752   | 5          | 5            | 3          |
| ENSG00000136826.14 | 1.463722959   | 5          | background    | 5          |
| ENSG00000136859.9  | 1.43742016    | 4          | background    | 4          |
| ENSG00000136866.13 | 1.019836717   | background | background    | 4          |
| ENSG00000136869.13 | 1.37451938    | 5          | background    | 5          |
| ENSG00000137038.7  | -1.16719205   | NA         | 5            | background |
| ENSG00000137098.13 | -2.572312176  | background | background    | 4          |
| ENSG00000137106.17 | -1.251818781  | 4          | background    | 4          |
| ENSG00000137135.17 | -1.313412865  | 4          | background    | 4          |
| ENSG00000137204.14 | -1.392447254  | 5          | background    | 4          |
| ENSG00000137225.12 | 3.79814185    | 5          | background    | 3          |
| ENSG00000137273.3  | 4.387831739   | NA         | background    | 4          |
| ENSG00000137310.11 | -1.166900015  | 5          | background    | 4          |
| ENSG00000137331.11 | 2.2758693     | NA         | background    | 5          |
| ENSG00000137404.14 | -1.112965077  | 4          | background    | 4          |
| ENSG00000137460.8  | 2.72337704    | background | background    | 5          |
| ENSG00000137502.9  | 1.098714886   | background | background    | 5          |
| ENSG00000137700.17 | -1.557608153  | 5          | 5            | 4          |
| ENSG00000137752.23 | -2.981700376  | background | background    | 5          |
| ENSG00000137802.13 | 1.519397252   | 4          | background    | 4          |
| ENSG00000137857.17 | 2.467034643   | 4          | 5            | 3          |
| ENSG00000137877.9  | 2.013045732   | 5          | 5            | background |
| ENSG00000137877.9  | 2.013045732   | 4          | 5            | background |
| Gene ID                | Log2 Fold Change | Background | Background | p-value | Adjusted p-value |
|-----------------------|-----------------|------------|------------|---------|-----------------|
| ENSG00000137880.5     | -1.164648611    | background | background | 5       | 4               |
| ENSG00000137955.15    | -1.156851941    | background | background | 5       | 3               |
| ENSG00000137960.5     | -1.794132524    | background | background | 5       | 3               |
| ENSG00000138028.15    | -1.099441554    | background | background | 3       | 3               |
| ENSG00000138030.12    | -1.455562384    | 5          | background | 5       | 4               |
| ENSG00000138073.13    | -1.037241027    | 5          | background | 5       | 4               |
| ENSG00000138074.14    | -1.044364233    | 5          | 5          | 4       | 4               |
| ENSG00000138100.13    | 2.105384783     | 4          | background | 5       | 3               |
| ENSG00000138119.16    | 1.083674879     | 5          | NA         | background | 3               |
| ENSG00000138166.5     | 2.083809463     | 2          | background | 5       | 3               |
| ENSG00000138172.10    | 1.770747207     | 4          | 4          | background | 4               |
| ENSG00000138207.13    | -1.302595673    | background | background | 4       | 4               |
| ENSG00000138308.5     | -1.052292672    | background | background | 4       | 4               |
| ENSG00000138315.12    | -1.429012451    | 5          | 5          | 5       | 4               |
| ENSG00000138326.18    | -1.081535241    | NA         | background | 4       | 4               |
| ENSG00000138376.10    | -1.018314655    | 5          | background | 4       | 4               |
| ENSG00000138413.13    | -1.531762998    | background | background | 4       | 4               |
| ENSG00000138495.6     | -1.0051467      | background | background | 3       | 4               |
| ENSG00000138587.5     | -1.231376743    | background | background | 4       | 4               |
| ENSG00000138593.8     | 1.006846209     | 5          | background | 4       | 4               |
| ENSG00000138678.10    | 1.14095915      | 5          | 5          | background | 3               |
| ENSG00000138796.16    | -1.361552345    | 5          | 5          | background | 4               |
| ENSG00000138798.11    | 3.30333216      | 5          | background | 3       | 4               |
| ENSG00000138823.13    | -1.328130917    | 5          | background | 4       | 4               |
| ENSG00000139055.6     | -1.860972161    | background | 5          | background | 4               |
| ENSG00000139083.10    | 1.258347174     | background | background | 5       | 4               |
| ENSG00000139112.10    | 1.653644978     | 5          | 5          | background | 5               |
| ENSG00000139174.11    | 2.603757711     | 5          | background | 5       | 3               |
| ENSG00000139190.16    | 1.548129917     | 5          | background | 5       | 5               |
| ENSG00000139194.7     | -1.075894138    | 5          | 5          | 4       | 4               |
| ENSG00000139209.15    | -1.394241873    | 5          | background | 5       | 4               |
| ENSG00000139278.9     | 1.057552847     | background | background | 5       | 4               |
| ENSG00000139287.12    | 1.055097769     | 5          | 5          | background | 3               |
| ENSG00000139292.12    | -1.037394924    | NA         | 4          | background | 3               |
| ENSG00000139292.12    | -1.037394924    | 4          | background | 4       | 3               |
| ENSG00000139318.7     | 1.158258564     | NA         | 5          | background | 5               |
| ENSG00000139344.7     | -1.057787192    | 4          | background | 4       | 4               |
| ENSG00000139428.11    | -1.812182089    | background | background | 4       | 4               |
| ENSG00000139540.11    | -1.445914644    | 5          | 5          | background | 4               |
| ENSG00000139629.15    | -1.308106556    | 5          | background | 5       | 4               |
| ENSG00000139800.8     | 1.472504104     | NA         | 5          | background | 4               |
| 87 | ENSG00000139970.16 | -4.088596489 | background | background | background | 3 |
| 87 | ENSG00000140092.14 | 1.962835681 | 5 | 5 | background | 4 |
| 87 | ENSG00000140093.9 | -1.003557192 | 5 | background | 5 | 3 |
| 87 | ENSG00000140263.13 | -1.04669465 | background | background | 5 | 4 |
| 87 | ENSG00000140284.10 | -1.252000495 | background | background | 5 | 4 |
| 87 | ENSG00000140465.13 | 1.227349979 | 5 | background | 5 | 4 |
| 87 | ENSG00000140511.11 | 2.778625332 | NA | background | 4 | 3 |
| 87 | ENSG00000140525.17 | -1.100346814 | 5 | background | 5 | 4 |
| 87 | ENSG00000140545.14 | -1.22376913 | background | background | 5 | 4 |
| 87 | ENSG00000140682.18 | 1.23121403 | 4 | background | 5 | 4 |
| 87 | ENSG00000140688.16 | -1.252000495 | 4 | background | 5 | 4 |
| 87 | ENSG00000140836.15 | 1.232709058 | 4 | 5 | 5 | 2 |
| 87 | ENSG00000140854.12 | -1.240827196 | background | background | 5 | 5 | 2 |
| 87 | ENSG00000140876.11 | -1.176124542 | background | background | background | 5 | 4 |
| 87 | ENSG00000140905.10 | -1.212324618 | background | background | background | 5 | 4 |
| 87 | ENSG00000141001.11 | -1.290999815 | background | background | background | 5 | 4 |
| 87 | ENSG00000141441.15 | 1.108447322 | background | background | 4 | 3 |
| 87 | ENSG00000141485.16 | -1.260820579 | background | background | 5 | 4 | 3 |
| 87 | ENSG00000141497.13 | 1.314416086 | 5 | background | background | 5 | 4 |
| 87 | ENSG00000141540.10 | -1.124408334 | 5 | background | 5 | 3 |
| 87 | ENSG00000141642.8 | -1.176124542 | background | background | background | 5 | 3 |
| 87 | ENSG00000141644.17 | 1.029999815 | background | background | background | 5 | 4 |
| 87 | ENSG00000141682.11 | 1.443029032 | NA | background | background | 5 | 3 |
| 87 | ENSG00000141854.9 | 1.102534063 | 5 | background | 5 | 5 | 3 |
| 87 | ENSG00000141934.9 | 2.004648855 | 5 | 4 | 5 | 3 |
| 87 | ENSG00000141959.16 | -1.3315843304 | 5 | background | 5 | 3 |
| 87 | ENSG00000142173.14 | 3.230019103 | background | background | 5 | 4 |
| 87 | ENSG00000142408.4 | 1.810553015 | NA | background | 5 | 5 | 3 |
| 87 | ENSG00000142459.8 | -1.41731057 | 5 | background | 5 | 4 |
| 87 | ENSG00000142494.13 | -1.118670511 | 4 | 5 | 5 | 3 |
| 87 | ENSG00000142528.15 | 1.065664213 | background | background | 5 | 4 |
| 87 | ENSG00000142599.17 | 1.168149465 | 4 | background | 5 | 3 |
| 87 | ENSG00000142627.12 | 1.240916648 | 5 | background | 5 | 3 |
| 87 | ENSG00000142675.17 | 1.23684003 | 4 | background | 5 | 3 |
| 87 | ENSG00000142677.3 | -1.194263233 | 4 | background | 5 | 4 |
| 87 | ENSG00000142700.11 | 1.509422562 | NA | background | 5 | 4 | 4 |
| 87 | ENSG00000142794.18 | 1.176037815 | background | background | 5 | 4 |
| 87 | ENSG00000142871.16 | 2.06800074 | 4 | background | 5 | 4 |
| 87 | ENSG00000143061.17 | 2.093608956 | 5 | 5 | 5 | 4 |
| 87 | ENSG00000143067.4 | 1.212970814 | background | background | 5 | 4 |
| Gene ID | Value               | Background 1 | Background 2 | Background 3 | Background 4 |
|--------|---------------------|--------------|--------------|--------------|--------------|
| ENSG00000143079.14 | 1.628801336        | background   | background   | 5            | 4            |
| ENSG00000143079.15 | 1.39844397         | background   | background   | 5            | 3            |
| ENSG00000143278.3  | -2.007287413       | background   | background   | 4            | 3            |
| ENSG00000143322.19 | 1.384029226        | background   | background   | 4            | 3            |
| ENSG00000143363.15 | -1.00563442        | 5            | background   | 5            | 4            |
| ENSG00000143365.17 | -1.136829097       | 5            | 5            | 5            | 4            |
| ENSG00000143369.14 | 1.024973735        | 5            | background   | 5            | 5            |
| ENSG00000143387.12 | 1.210261567        | background   | background   | 5            | 4            |
| ENSG00000143412.9  | -1.300312926       | background   | 4            | 4            | 4            |
| ENSG00000143416.20 | -1.245294604       | 5            | background   | 5            | 5            |
| ENSG00000143476.17 | -1.189280315       | 5            | 5            | 5            | 4            |
| ENSG00000143507.17 | 1.485380339        | 4            | background   | 4            | 4            |
| ENSG00000143627.17 | -1.415340329       | 5            | background   | 5            | 4            |
| ENSG00000143632.14 | 2.43769444         | 5            | background   | 5            | 4            |
| ENSG00000143633.12 | -1.172727848       | 5            | background   | 4            | 4            |
| ENSG00000143786.7  | 1.324315207        | 5            | background   | 3            | 3            |
| ENSG00000143816.7  | 2.332317871        | background   | background   | 4            | 3            |
| ENSG00000143862.7  | 1.173104587        | background   | background   | 5            | 4            |
| ENSG00000144045.13 | -1.074200012       | 5            | background   | 4            | 4            |
| ENSG00000144120.12 | -1.527628297       | NA           | background   | 4            | 4            |
| ENSG00000144130.11 | -1.981550843       | 5            | background   | 4            | 4            |
| ENSG00000144214.9  | 1.641150755        | background   | background   | 4            | 4            |
| ENSG00000144233.9  | 1.035211093        | background   | background   | 5            | 4            |
| ENSG00000144354.13 | -1.513541322       | background   | background   | 4            | 4            |
| ENSG00000144366.15 | 3.166000391        | background   | background   | 3            | 3            |
| ENSG00000144369.12 | 2.02318797         | 4            | background   | 3            | 3            |
| ENSG00000144381.16 | -1.016076297       | background   | background   | 4            | 4            |
| ENSG00000144426.18 | 1.671095324        | background   | background   | 4            | 4            |
| ENSG00000144591.18 | -1.049759095       | background   | background   | 4            | 4            |
| ENSG00000144668.11 | 2.454712838        | 5            | background   | 3            | 3            |
| ENSG00000144730.17 | 1.773021175        | 4            | background   | 5            | 4            |
| ENSG00000144791.9  | 1.157857393        | background   | background   | 4            | 4            |
| ENSG00000144834.13 | 2.702350475        | 4            | 4            | 5            | 4            |
| ENSG00000144893.12 | 2.261938309        | 5            | background   | 3            | 3            |
| ENSG00000145020.15 | -1.118679424       | background   | background   | 4            | 2            |
| ENSG00000145040.3  | 1.61494768         | NA           | background   | 4            | 4            |
| ENSG00000145107.15 | 1.838355745        | background   | background   | 3            | 3            |
| ENSG00000145192.12 | -1.328008229       | 5            | 5            | 5            | 5            |
| ENSG00000145198.14 | 1.723345495        | 5            | background   | 4            | 2            |
| ENSG00000145386.9  | -1.392754522       | background   | background   | 5            | 5            |
| ENSG00000145390.11 | 1.28311879         | 5            | 5            | 5            | 4            |
| Gene ID       | Log2 Fold Change | P-value | Score | FDR  |
|-------------|-----------------|---------|-------|------|
| ENSG00000145391.13 | 1.059425171 | background | background | 5 4 |
| ENSG00000145476.15 | -1.017076946 | background | background | 4 3 |
| ENSG00000145692.14 | -1.298374871 | 5 background | background | 4 3 |
| ENSG00000146112.11 | 1.088368567 | background | 4 5 | 4 3 |
| ENSG00000146215.13 | -1.156692835 | 4 background | background | 5 4 |
| ENSG00000146373.16 | 1.754791452 | background | NA | 4 3 |
| ENSG00000146700.8 | -1.142738511 | background | 5 5 | 4 3 |
| ENSG00000146701.11 | -1.0027458 | background | 5 4 | 3 2 |
| ENSG00000146729.9 | -2.16001222 | 5 background | background | 4 3 |
| ENSG00000147155.10 | -1.23724129 | 5 background | background | 4 3 |
| ENSG00000147174.11 | 1.75004405 | 5 5 | 5 3 |
| ENSG00000147394.18 | -1.101462335 | background | background | 4 3 |
| ENSG00000147400.8 | -1.366397963 | NA background | background | 4 3 |
| ENSG00000147403.16 | -1.13363268 | background | background | 5 3 |
| ENSG00000147488.11 | -4.712637251 | background | background | 3 2 |
| ENSG00000147536.11 | -1.295623607 | background | background | 3 2 |
| ENSG00000147592.8 | -1.073416844 | background | background | 5 3 |
| ENSG00000147676.13 | -1.58977722 | 5 background | 4 4 |
| ENSG00000147883.10 | 1.434924818 | NA background | 5 4 |
| ENSG00000147955.16 | -1.062065008 | NA background | 4 4 |
| ENSG00000148057.15 | -1.207730357 | background | background | 4 3 |
| ENSG00000148290.9 | -1.000148843 | 5 background | background | 5 4 |
| ENSG00000148303.16 | -1.009786532 | background | 5 background | 5 4 |
| ENSG00000148362.10 | -1.142476521 | background | background | 4 3 |
| ENSG00000148400.9 | -1.56326144 | 3 background | 5 2 |
| ENSG00000148450.12 | -1.060706286 | background | background | 4 3 |
| ENSG00000148483.8 | -3.126384515 | 5 background | background | 5 4 |
| ENSG00000148584.14 | -1.098702961 | 5 background | background | 4 3 |
| ENSG00000148672.8 | -1.01944437 | background | 5 3 | 4 3 |
| ENSG00000148677.6 | 1.48587939 | NA background | 4 3 |
| ENSG00000148680.15 | 3.746867006 | NA background | 4 3 |
| ENSG00000148798.10 | 1.298749931 | background | background | 5 4 |
| ENSG00000148803.11 | -1.577268886 | 5 background | background | 5 3 |
| ENSG00000148841.15 | 1.436023299 | background | 5 3 | 3 2 |
| ENSG00000148926.9 | 1.140040194 | background | 5 background | 5 3 |
| ENSG00000148942.14 | 2.322148447 | background | 5 5 | 4 3 |
| ENSG00000148965.9 | -1.087164663 | background | background | 4 3 |
| ENSG00000148985.19 | -1.048785438 | 4 background | 4 3 |
| ENSG00000149260.15 | 1.330643226 | 5 background | 4 3 |
| ENSG00000149328.14 | -1.568067841 | 5 5 | 4 3 |
| ENSG00000149418.10 | -1.08646394 | 4 background | 4 3 |
| Gene ID   | Log2FC   | P-value | Fold Change |
|-----------|----------|---------|-------------|
| ENSG00000149476.15 | -1.464384172 | 5 | background |
| ENSG00000149527.17 | 1.113408327 | 4 | background |
| ENSG00000149564.11 | 1.71796204 | 5 | background |
| ENSG00000149571.11 | -2.567349218 | 4 | background |
| ENSG00000149639.14 | 1.046021057 | 5 | background |
| ENSG00000149735.6 | -1.330165952 | 5 | background |
| ENSG00000149781.12 | 3.35890941 | 5 | background |
| ENSG00000149968.11 | 2.68265913 | 5 | background |
| ENSG00000150054.18 | -1.031150285 | 5 | background |
| ENSG00000150281.6 | 1.102298437 | 4 | background |
| ENSG00000150401.14 | 1.578741661 | 5 | background |
| ENSG00000150457.8 | 3.010196362 | 5 | background |
| ENSG000001505717.16 | 2.013006675 | 5 | background |
| ENSG00000150656.14 | 3.010196362 | 5 | background |
| ENSG00000150672.16 | 2.013006675 | 5 | background |
| ENSG00000150779.11 | -1.11873103 | 4 | background |
| ENSG00000151012.13 | 1.257958278 | 5 | background |
| ENSG00000151224.12 | -1.24680256 | 5 | background |
| ENSG00000151240.16 | 1.230609445 | 3 | background |
| ENSG00000151360.9 | 3.433228296 | 5 | background |
| ENSG00000151474.21 | 1.614133802 | 5 | background |
| ENSG00000151655.18 | -1.257396485 | 5 | background |
| ENSG00000151687.14 | 1.038105517 | 5 | background |
| ENSG00000151693.10 | 1.57458452 | 3 | background |
| ENSG00000152104.11 | 1.31368715 | 5 | background |
| ENSG00000152137.6 | 2.424818601 | 5 | background |
| ENSG00000152253.8 | -1.34569066 | 5 | background |
| ENSG00000152377.13 | 4.203610434 | 5 | background |
| ENSG00000152409.8 | 1.068230625 | 5 | background |
| ENSG00000153044.9 | -1.094913359 | 4 | background |
| ENSG00000153132.12 | -1.211734772 | 4 | background |
| ENSG00000153234.13 | 2.490385048 | 4 | background |
| ENSG00000153406.13 | -1.167377098 | 5 | background |
| ENSG00000153495.10 | 2.037959874 | 5 | background |
| ENSG00000153498.11 | 4.890490585 | 5 | background |
| ENSG00000153684.14 | 5.956275659 | 5 | background |
| ENSG00000154016.13 | 1.316620004 | 5 | background |
| ENSG00000154146.12 | -1.005437831 | 5 | background |
| ENSG00000154237.12 | 1.325903058 | 5 | background |
| gene_id          | log2_expression  | p_value | adjusted_p_value | fold_change | q_value | background | annotation |
|------------------|------------------|---------|------------------|-------------|---------|------------|------------|
| ENSG0000015447.14 | 1.373551705      |         |                  | 5           |         | background | 4          |
| ENSG00000154548.8 | 1.613600043      |         |                  | 4           |         | background | 4          |
| ENSG00000154914.16 | 1.27541756      |         |                  | 5           |         | background | 4          |
| ENSG00000154917.10 | 1.08545165       |         |                  | 5           | 3       | background | 3          |
| ENSG00000155085.15 | -1.118291194    |         |                  | 5           | background | background | 4          |
| ENSG00000155099.7 | 1.051772884      |         |                  | 4           |         | background | 4          |
| ENSG00000155368.16 | -1.194870004    |         |                  | 5           |         | background | 4          |
| ENSG00000155463.12 | -1.177508702    |         |                  | NA          |         | background | 5          |
| ENSG00000155465.18 | 1.864186494      |         |                  | 5           |         | background | 4          |
| ENSG00000155744.9 | 1.043148859      |         |                  | 5           |         | background | 3          |
| ENSG00000155744.9 | 1.043148859      |         |                  | 5           |         | background | 3          |
| ENSG00000155886.11 | 3.791748593      |         |                  | 5           |         | background | 4          |
| ENSG00000156017.12 | -1.098685121    |         |                  | background | background | background | 3          |
| ENSG00000156127.6 | 2.137686789      |         |                  | NA          |         | background | 4          |
| ENSG00000156232.7 | 2.35202558       |         |                  | background | background | background | 4          |
| ENSG00000156265.15 | 2.705904591      |         |                  | background | background | background | 4          |
| ENSG00000156384.14 | -1.000014284    |         |                  | 5           |         | background | 4          |
| ENSG00000156398.12 | -3.12515969      |         |                  | background | background | background | 4          |
| ENSG00000156802.12 | -1.065997992    |         |                  | 5           |         | background | 4          |
| ENSG00000156804.7 | 2.24056343       |         |                  | 3           |         | background | 3          |
| ENSG00000156928.4 | -1.126593983     |         |                  | background | background | background | 5          |
| ENSG00000156966.6 | 1.687348387      |         |                  | 5           |         | background | 4          |
| ENSG00000156968.8 | -1.594619526     |         |                  | background | background | background | 4          |
| ENSG00000156970.12 | -1.289982097     |         |                  | 5           |         | background | 4          |
| ENSG00000157087.17 | -1.450281371     |         |                  | 4           |         | background | 4          |
| ENSG00000157131.10 | -1.885846701     |         |                  | background | background | background | 4          |
| ENSG00000157326.18 | -1.223033932     |         |                  | 5           |         | background | 4          |
| ENSG00000157368.10 | -1.619999727     |         |                  | background | background | background | 3          |
| ENSG00000157741.14 | 1.095781153      |         |                  | NA          |         | background | 4          |
| ENSG00000157890.17 | 2.11835734       |         |                  | 5           |         | background | 2          |
| ENSG00000158023.9 | 1.574840823      |         |                  | 5           |         | background | 3          |
| ENSG00000158042.8 | -1.53827351      |         |                  | NA          |         | background | 4          |
| ENSG00000158062.20 | -1.044193346     |         |                  | background | background | background | 3          |
| ENSG00000158125.9 | -3.635297549     |         |                  | 5           |         | background | 4          |
| ENSG00000158246.7 | 1.47102287       |         |                  | NA          |         | background | 4          |
| ENSG00000158296.13 | -1.451074144     |         |                  | 5           |         | background | 4          |
| ENSG00000158402.18 | -1.068037475     |         |                  | background | background | background | 3          |
| ENSG00000158483.15 | -1.144865935     |         |                  | NA          |         | background | 4          |
| ENSG00000158815.10 | 1.803436726      |         |                  | 5           |         | background | 4          |
| ENSG00000158859.9 | 1.087828242      |         |                  | 5           |         | background | 3          |
| ENSG00000158874.11 | -1.016839796     |         |                  | 5           |         | background | 5          |
| Gene Symbol | Log2 Fold Change | Background |   |   |
|-------------|-----------------|------------|---|---|
| ENSG00000158882.14 | -1.083628249 | background | 5 | 4 |
| ENSG00000159063.12 | 1.016483375 | background | 5 | 4 |
| ENSG00000159147.17 | -1.049337683 | background | 4 | 5 |
| ENSG00000159199.13 | -1.347993766 | background | 4 | 5 |
| ENSG00000159208.15 | 2.513356855 | background | 4 | 4 |
| ENSG00000159216.18 | 1.249252628 | background | 5 | 3 |
| ENSG00000159251.6 | 4.979327167 | background | 4 | 4 |
| ENSG00000159261.10 | -1.997152608 | background | 3 | 3 |
| ENSG00000159263.15 | 1.453766095 | background | 4 | 4 |
| ENSG00000159388.5 | 1.376772106 | background | 3 | 4 |
| ENSG00000159423.16 | -1.041520097 | background | 3 | 4 |
| ENSG00000159459.11 | 1.136537449 | background | 4 | 4 |
| ENSG00000159753.13 | 1.093288214 | NA | 4 | 4 |
| ENSG00000159792.9 | -1.209674494 | background | 3 | 3 |
| ENSG00000159885.13 | 1.167305159 | background | 4 | 4 |
| ENSG00000160124.9 | -1.233924545 | background | 4 | 4 |
| ENSG00000160211.15 | -1.355904447 | 5 | 4 | 4 |
| ENSG00000160213.6 | -1.01147449 | NA | 5 | 4 |
| ENSG00000160233.7 | -1.277984996 | background | 4 | 4 |
| ENSG00000160298.17 | -1.201794359 | background | 5 | 4 |
| ENSG00000160360.12 | 1.600178218 | background | 4 | 4 |
| ENSG00000160460.15 | 3.582715024 | background | 5 | 3 |
| ENSG00000160539.4 | -1.218365307 | background | 4 | 4 |
| ENSG00000160570.13 | 1.321175118 | NA | 4 | 4 |
| ENSG00000160741.16 | 1.143276708 | background | 4 | 4 |
| ENSG00000160752.14 | -1.205653333 | background | 4 | 4 |
| ENSG00000160888.6 | 1.260971247 | NA | 5 | 5 |
| ENSG00000160963.13 | -1.270187459 | background | 5 | 2 |
| ENSG00000161179.13 | -1.046044004 | background | 5 | 5 |
| ENSG00000161281.10 | 2.601799025 | background | 5 | 5 |
| ENSG00000161509.13 | 2.161126361 | background | 3 | 3 |
| ENSG00000161638.10 | 1.013098447 | background | 4 | 4 |
| ENSG00000161914.9 | 1.615077235 | background | 3 | 4 |
| ENSG00000161940.10 | 4.96391423 | background | 5 | 4 |
| ENSG00000161955.16 | 1.185329357 | background | 5 | 5 |
| ENSG00000161981.10 | -1.01412614 | background | 5 | 5 |
| ENSG00000162006.9 | 5.888168295 | NA | 3 | 3 |
| ENSG00000162062.14 | -1.189035279 | background | 5 | 4 |
| ENSG00000162076.12 | -1.068381434 | 5 | 4 | 3 |
| ENSG00000162174.12 | -1.142900627 | background | 4 | 4 |
| Gene ID | Value       | Description | Size 1 | Description | Size 2 | Description | Size 3 | Description | Size 4 |
|---------|-------------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|
| ENSG00000162399.6 | 3.597023912 | background | 5      | 4           | 4      |
| ENSG00000162426.14 | 3.345007984 | background | 4      | background | background | 4    |
| ENSG00000162520.14 | -1.379270832 | 5         | 5      | 4           | 4      |
| ENSG00000162552.14 | 4.958057221 | background | 5      | background | background | 4    |
| ENSG00000162600.11 | -1.217978552 | background | 5      | background | background | 4    |
| ENSG00000162616.8  | 1.523802504 | background | 4      | background | background | 4    |
| ENSG00000162772.16 | 1.086077783 | background | 5      | 4           | 4      |
| ENSG00000162783.10 | 1.240568323 | NA        | 5      | background | 5      |
| ENSG00000162825.12 | 1.925781607 | background | NA    | NA          | NA     |
| ENSG00000162882.14 | -1.24197165  | background | 5      | background | 5      |
| ENSG00000162910.18 | -1.46902623 | 5         | 5      | background | background | 4    |
| ENSG00000162944.10 | 2.51745541  | 5         | 5      | background | background | 4    |
| ENSG00000162999.12 | -1.085519316 | 4         | 4      | background | 4      |
| ENSG00000163017.13 | 3.24454208  | 5         | 5      | background | background | 4    |
| ENSG00000163032.11 | -1.12930574 | background | 5      | background | background | 2    |
| ENSG00000163082.9 | -1.006801607 | NA | background | 5      |
| ENSG00000163083.5 | 1.233874757 | NA        | background | 4      |
| ENSG00000163323.14 | 1.281111587 | NA        | background | 4      |
| ENSG00000163472.18 | 1.31969535  | 4         | 5      | background | 4      |
| ENSG00000163501.6 | 1.401439652 | background | NA    | 5          |
| ENSG00000163536.12 | -1.31112403 | background | background | 4    |
| ENSG00000163581.13 | -1.674284432 | 5         | background | background | 5    |
| ENSG00000163584.17 | -1.13430588 | 5         | 5      | background | 5      |
| ENSG00000163586.9 | -1.761224384 | background | background | 4    |
| ENSG00000163596.16 | 1.330627379 | background | background | 4    |
| ENSG00000163602.10 | 1.026400591 | NA        | NA    | 5          |
| ENSG00000163631.16 | -1.122646595 | background | background | 5    |
| ENSG00000163634.11 | -1.018333476 | 5         | background | background | 4    |
| ENSG00000163644.14 | 1.193312539 | background | 4      |
| ENSG00000163694.14 | 1.144877431 | 5         | background | 4      |
| ENSG00000163762.6 | 3.530533012 | 5         | 5      |
| ENSG00000163808.16 | -1.0269757 | background | background | 3    |
| ENSG00000163898.9 | 1.317467675 | background | background | 4    |
| ENSG00000163933.9 | -1.00204047 | 5         | background | 5      |
| Symbol       | Value     | Background | 4 | 5 | 3 |
|--------------|-----------|------------|---|---|---|
| ENSG00000164007.10 | -1.075030543 | background | 4 | 5 | 3 |
| ENSG00000164022.16 | -1.086255205 | background | 4 | 2 |
| ENSG00000164023.14 | 1.450502323 | background | 4 | 4 |
| ENSG00000164032.11 | -1.069412761 | background | 4 |
| ENSG00000164062.12 | -1.046335922 | 5 | 5 | 4 |
| ENSG00000164070.11 | -1.019472312 | 4 | 5 | 4 |
| ENSG00000164089.8 | -1.257522021 | background | 4 |
| ENSG00000164099.3 | 2.272153691 | background | 4 |
| ENSG00000164104.11 | -1.235823838 | background | 4 |
| ENSG00000164109.13 | -1.203085667 | 5 | 5 | 4 |
| ENSG00000164142.15 | 2.433975989 | background | 4 |
| ENSG00000164167.10 | -1.012647264 | background | 4 |
| ENSG00000164236.11 | 1.903450442 | background | NA | 3 | 3 |
| ENSG00000164251.4 | 1.157404216 | NA | background | background | 4 |
| ENSG00000164306.10 | -1.116751159 | background | background | 3 |
| ENSG00000164318.17 | 4.92772749 | 5 | background | background | 3 |
| ENSG00000164327.12 | 1.354380732 | background | background | 4 |
| ENSG00000164404.8 | 1.589350277 | background | background | 5 |
| ENSG00000164405.10 | -1.109734865 | NA | background | background | 5 |
| ENSG00000164406.7 | -1.841419046 | background | 4 | background | 4 |
| ENSG00000164463.12 | 1.420811438 | background | background | 4 |
| ENSG00000164543.5 | 1.152401123 | background | background | 5 | 4 |
| ENSG00000164611.12 | -1.044626247 | background | background | 5 |
| ENSG00000164626.8 | 4.968808726 | 5 | background | 4 | 3 |
| ENSG00000164649.19 | -1.131466574 | background | 5 | 5 | 4 |
| ENSG00000164659.14 | 1.042094932 | 5 | background | background | 3 |
| ENSG00000164687.10 | -1.145707558 | background | 5 | background | 4 |
| ENSG00000164695.4 | 1.077583417 | background | 4 | background | 4 |
| ENSG00000164742.14 | 1.018250927 | 4 | background | 4 | 3 |
| ENSG00000164794.8 | 1.328605211 | 4 | 5 | background | 4 |
| ENSG00000164849.9 | -1.455475594 | NA | 5 | 5 | 3 |
| ENSG00000164904.17 | -1.101437983 | background | background | 3 | 3 |
| ENSG00000164916.10 | 1.236911231 | 5 | NA | 4 | 3 |
| ENSG00000164938.13 | 1.225814722 | background | background | 5 | 4 |
| ENSG00000164941.13 | -1.312620699 | background | background | 5 | 4 |
| ENSG00000164951.15 | 1.327999574 | NA | background | background | 3 |
| ENSG00000165097.13 | -1.374095079 | background | background | 5 | 4 |
| ENSG00000165269.12 | 1.341477954 | 5 | background | background | 4 |
| ENSG00000165272.14 | 1.662075687 | background | 5 | 4 | 4 |
| ENSG00000165312.6 | 1.278045863 | NA | NA | 5 | background | 5 |
| ENSG00000165410.14 | -1.106201356 | background | background | 4 | 4 |
| Ensembl ID | Gene ID | Name  | Start | End   | Description | Chromosome | Gene Type | Transcripts | Length | Annotation |
|------------|---------|-------|-------|-------|-------------|------------|-----------|-------------|--------|------------|
| ENSG00000165471.6 | -1.49764018 | NA | background | background | background | 5 | 5 |
| ENSG00000165475.13 | -1.697618332 | background | background | background | background | 3 | 4 |
| ENSG00000165480.15 | -1.23811194 | background | background | background | background | 5 | 4 |
| ENSG00000165516.10 | -1.06185944 | background | background | background | background | 5 | 4 |
| ENSG00000165626.16 | 1.25386116 | background | background | background | background | 4 | 3 |
| ENSG00000165730.14 | -1.73531422 | background | background | background | background | 4 | 4 |
| ENSG00000165861.13 | 1.94971755 | background | background | background | background | 4 | 5 | 4 |
| ENSG00000165895.17 | 1.409830892 | 5 | background | background | background | 4 | 4 |
| ENSG00000165949.12 | -1.220979858 | background | background | background | background | 4 | 3 |
| ENSG00000165953.9 | -1.18799678 | 5 | 5 | background | background | 4 | 4 |
| ENSG00000166035.10 | -1.182219239 | background | background | background | background | 5 | 2 |
| ENSG00000166046.10 | 1.28800987 | background | background | background | background | 4 | 5 |
| ENSG00000166105.15 | 1.54784985 | 5 | NA | background | background | 5 | 4 |
| ENSG00000166111.9 | 3.71033296 | 4 | 3 | 4 | 3 | 4 | 4 |
| ENSG00000166145.14 | 2.15360986 | background | background | background | background | 5 | 4 |
| ENSG00000166147.13 | 1.225140649 | background | background | background | background | 4 | 3 |
| ENSG00000166165.12 | -1.122082609 | 5 | background | background | background | 4 | 4 |
| ENSG00000166171.12 | -1.419578249 | background | background | background | background | 4 | 4 |
| ENSG00000166173.10 | 1.556538257 | background | background | background | background | 4 | 4 |
| ENSG00000166311.9 | 1.058015849 | 5 | background | background | background | 4 | 4 |
| ENSG00000166337.9 | -1.103725039 | background | background | background | background | 4 | 4 |
| ENSG00000166347.18 | -1.07836381 | background | background | background | background | 4 | 4 |
| ENSG00000166405.14 | 1.472594208 | background | background | background | background | 5 | 4 |
| ENSG00000166451.13 | -1.172318217 | background | background | background | background | 5 | 4 |
| ENSG00000166532.15 | 1.180421873 | 5 | 5 | background | background | 4 | 4 |
| ENSG00000166562.8 | -1.04413525 | background | background | background | background | 4 | 4 |
| ENSG00000166592.11 | 2.124243231 | background | background | background | background | 5 | 5 |
| ENSG00000166598.14 | -1.015608025 | background | background | background | background | 4 | 4 |
| ENSG00000166644.13 | 1.738256492 | background | background | background | background | 5 | 5 | 4 |
| ENSG00000166780.10 | 1.902936089 | background | background | background | background | 3 | 5 | 3 |
| ENSG00000166803.11 | -1.30468426 | background | background | background | background | 4 | 4 |
| ENSG00000166821.8 | -1.005169075 | background | background | background | background | 5 | 5 | 3 |
| ENSG00000166896.7 | -1.097559691 | background | background | background | background | 4 | 4 |
| ENSG00000166924.8 | 2.544186436 | 5 | 5 | 5 | 3 | 3 | 3 |
| ENSG00000166925.8 | 1.220687927 | 5 | 5 | 4 | 2 |
| ENSG00000166949.15 | 1.161347144 | 4 | 5 | 5 | 3 |
| ENSG00000166963.12 | 1.652961714 | 4 | 5 | 5 | 4 |
| ENSG00000167088.10 | -1.081158006 | background | background | background | background | 4 | 4 |
| ENSG00000167107.12 | -1.086469927 | background | background | background | background | 3 | 3 |
| ENSG00000167191.11 | 1.524875132 | 5 | background | background | background | 5 | 3 |
| ENSG00000167272.10 | -1.167650629 | background | background | background | background | 5 | 5 | 5 |
| Gene ID          | Value    | 4 | 5 | 4 | 5 | 4 |
|-----------------|----------|---|---|---|---|---|
| ENSG00000167371.17 | 1.676448319 | 4 | 4 | 4 | 4 | 4 |
| ENSG00000167378.8 | 1.571250981 | background | background | 4 | 4 | 4 |
| ENSG00000167483.17 | 1.525727748 | background | background | 4 | 4 | 3 |
| ENSG00000167513.8 | -1.075817959 | 5 | 5 | 5 | 5 | 5 |
| ENSG00000167535.7 | 1.70188981 | 5 | 5 | background | 4 | 4 |
| ENSG00000167588.12 | -1.719591366 | background | 5 | 5 | 5 | 5 |
| ENSG00000167723.14 | 1.446066322 | background | 5 | background | 4 | 4 |
| ENSG00000167747.14 | -1.219323856 | background | 5 | 5 | 5 | 5 |
| ENSG00000167767.13 | 1.314446868 | background | 4 | 4 | 4 | 4 |
| ENSG00000167780.11 | -1.266257038 | 5 | background | background | 4 | 4 |
| ENSG00000167799.9 | -1.459233309 | background | background | 4 | 4 | 4 |
| ENSG00000167815.11 | -1.386174567 | background | background | 5 | 4 | 4 |
| ENSG00000167861.15 | 1.270253178 | 4 | background | 5 | 4 | 4 |
| ENSG00000167863.11 | -1.12228379 | background | background | background | 4 | 4 |
| ENSG00000167900.11 | -1.278354532 | 5 | background | 4 | 4 | 4 |
| ENSG00000167965.17 | -1.08467966 | 5 | 5 | 4 | 4 | 4 |
| ENSG00000168002.11 | -1.174750391 | background | background | background | 4 | 4 |
| ENSG00000168003.16 | 1.104501275 | 4 | background | background | 3 | 3 |
| ENSG00000168014.16 | 1.266668315 | 4 | background | background | 4 | 4 |
| ENSG00000168078.9 | -1.189054577 | background | background | background | 3 | 3 |
| ENSG00000168237.17 | -1.64827284 | 5 | background | 5 | 5 | 5 |
| ENSG00000168243.10 | -1.14528001 | background | 5 | 5 | 5 | 3 |
| ENSG00000168306.12 | -1.114383222 | 5 | background | background | 4 | 4 |
| ENSG00000168314.17 | 2.23031378 | NA | background | 5 | 4 | 4 |
| ENSG00000168393.12 | -1.135794041 | background | background | 5 | 3 | 3 |
| ENSG00000168412.6 | 5.550974379 | NA | background | background | 4 | 4 |
| ENSG00000168477.17 | 1.401047375 | 5 | 5 | 5 | 3 | 3 |
| ENSG00000168490.13 | 1.353263202 | background | 4 | 3 | 3 | 3 |
| ENSG00000168496.3 | -1.105853739 | NA | background | background | 5 | 5 |
| ENSG00000168502.17 | 1.620335091 | 4 | background | 5 | 3 | 3 |
| ENSG00000168569.7 | -1.108065833 | NA | background | background | 4 | 4 |
| ENSG00000168621.14 | 2.328534245 | NA | background | 4 | 4 | 4 |
| ENSG00000168679.17 | 1.124711073 | background | background | background | 4 | 4 |
| ENSG00000168765.16 | -1.458671086 | 5 | background | 5 | 5 | 5 |
| ENSG00000168874.12 | 3.352951217 | NA | background | 4 | 2 | 2 |
| ENSG00000168917.8 | 1.161447132 | NA | background | background | 4 | 4 |
| ENSG00000168961.16 | 1.778493822 | background | 5 | 5 | 4 | 4 |
| ENSG00000168994.13 | 1.328324542 | background | 5 | 5 | 3 | 3 |
| ENSG00000169020.9 | -1.215012734 | background | 3 | background | 3 | 3 |
| ENSG00000169047.5 | 1.145740324 | NA | 5 | 5 | 4 | 4 |
| ENSG00000169155.9 | 1.451243097 | NA | background | background | 3 | 3 |
| Gene ID          | Value       | Method | Localization | Expression | Score | Localization | Expression |
|------------------|-------------|--------|--------------|------------|-------|--------------|------------|
| ENSG00000169174.10 | -1.817729428 | 5      | background   | 5          | 3     | background   | 5          |
| ENSG00000169213.6  | 1.297822124  | background | 5          | 3          | 3     | background   | 5          |
| ENSG00000169247.11 | 1.421905425  | background | background  | 4          | 4     | background   | background |
| ENSG00000169429.10 | 1.12463074   | background | background  | background | background | background |
| ENSG00000169432.14 | 1.246387023  | background | background  | 5          | 3     | background   | background |
| ENSG00000169548.3  | 1.094352102  | background | background  | 5          | 5     | background   | background |
| ENSG00000169550.12 | -1.561837694 | background | background  | 4          | 4     | background   | background |
| ENSG00000169562.9  | -1.665988505 | NA     | background   | 5          | 4     | background   | background |
| ENSG00000169627.7  | -1.01428645  | background | background  | 5          | 5     | background   | background |
| ENSG00000169738.7  | -1.022519603 | background | background  | 5          | 5     | background   | background |
| ENSG00000169826.7  | 1.959117703  | 5      | background   | 5          | 3     | background   | background |
| ENSG00000169896.16 | 3.306740009  | 5      | background   | 2          | 2     | background   | background |
| ENSG00000169994.18 | 3.911095559  | 5      | background   | 3          | 3     | background   | background |
| ENSG0000017004.16  | 1.133818911  | 4      | background   | 4          | 4     | background   | background |
| ENSG00000170099.5  | -1.349431254 | background | background  | 4          | 4     | background   | background |
| ENSG00000170100.13 | 1.092771224  | background | background  | 4          | 4     | background   | background |
| ENSG00000170276.5  | 2.961271272  | NA     | background   | 4          | 4     | background   | background |
| ENSG00000170325.14 | 1.762758638  | background | background  | 4          | 4     | background   | background |
| ENSG00000170345.9  | 1.757609431  | NA     | background   | 5          | 5     | background   | background |
| ENSG00000170396.7  | 1.699891581  | background | background  | 4          | 4     | background   | background |
| ENSG00000170458.13 | -1.690687863 | NA     | background   | 5          | 5     | background   | background |
| ENSG00000170469.10 | -1.044758323 | 5      | background   | 4          | 4     | background   | background |
| ENSG00000170482.16 | -1.787293977 | 5      | background   | 4          | 4     | background   | background |
| ENSG00000170498.8  | 3.132781614  | NA     | background   | 5          | 5     | background   | background |
| ENSG00000170537.12 | 1.199901425  | background | background  | 4          | 4     | background   | background |
| ENSG00000170647.3  | 1.661076664  | NA     | background   | background | background | background |
| ENSG00000170684.8  | 1.045751966  | NA     | background   | 5          | 5     | background   | background |
| ENSG00000170801.9  | 1.871465474  | background | 5          | 3          | 3     | background   | background |
| ENSG00000170915.8  | -1.55772385  | background | 5          | 4          | 4     | background   | background |
| ENSG00000170917.13 | -1.083190178 | background | background  | 4          | 4     | background   | background |
| ENSG00000170921.15 | 2.452893983  | 5      | background   | 4          | 3     | background   | background |
| ENSG00000171016.11 | 1.6251613    | background | background  | 4          | 4     | background   | background |
| ENSG00000171103.10 | -1.577938774 | background | background  | 4          | 4     | background   | background |
| ENSG00000171130.17 | -1.11152737  | background | 5          | 4          | 4     | background   | background |
| ENSG00000171132.13 | 1.173040583  | 5      | 4           | 4          | 4     | background   | background |
| ENSG00000171208.9  | 1.085361358  | background | 5          | 4          | 4     | background   | background |
| ENSG00000171217.5  | 1.518369741  | NA     | background   | 5          | 5     | background   | background |
| ENSG00000171223.5  | 1.176030263  | NA     | background   | 5          | 5     | background   | background |
| ENSG00000171227.6  | -1.713035179 | NA     | background   | 4          | 4     | background   | background |
| ENSG00000171246.5  | 2.652254016  | background | background  | 4          | 4     | background   | background |
| ENSG00000171303.6  | 2.632045478  | NA     | background   | 5          | 4     | background   | background |
| Gene | Value 1 | Value 2 | Value 3 | Value 4 | Value 5 |
|------|---------|---------|---------|---------|---------|
| ENSG00000171346.15 | 2.438309136 | background | 4 | 3 | 3 |
| ENSG00000171522.5 | 5.766741276 | S | 5 | background | 4 |
| ENSG00000171540.7 | 3.835452998 | background | 5 | 5 | 4 |
| ENSG00000171557.16 | -1.63675985 | background | background | background | 5 |
| ENSG00000171560.14 | -1.5110507 | background | background | 5 | 4 |
| ENSG00000171564.11 | -1.42980218 | background | background | background | 5 |
| ENSG00000171611.9 | 5.254740598 | NA | background | background | 4 |
| ENSG00000171759.9 | -1.34633502 | background | background | background | 5 | 4 |
| ENSG00000171786.5 | 2.58549089 | NA | 5 | 3 | 3 |
| ENSG00000171817.16 | 1.60064759 | background | background | background | 4 |
| ENSG00000171840.11 | -1.201722155 | 5 | background | 5 | 3 |
| ENSG00000171848.14 | -1.394485095 | background | 5 | 3 | 3 |
| ENSG00000171877.20 | 1.557335932 | background | background | 4 | 3 |
| ENSG00000171988.18 | 1.33207374 | background | background | background | 3 |
| ENSG00000171989.5 | 5.587993276 | NA | 5 | background | 5 |
| ENSG00000171992.12 | 1.180999132 | 4 | background | 5 | 3 |
| ENSG00000172014.12 | 1.971140461 | background | background | background | 4 |
| ENSG00000172053.17 | -1.244315041 | background | background | background | 4 |
| ENSG00000172073.3 | 4.591452386 | background | background | background | 5 |
| ENSG00000172215.5 | 3.200366448 | NA | background | background | 4 |
| ENSG00000172296.12 | -1.05917814 | background | background | 5 | 3 |
| ENSG00000172340.14 | -1.112382311 | background | background | background | 4 |
| ENSG00000172346.14 | 1.63681751 | 5 | 4 | 5 | 4 |
| ENSG00000172379.20 | 2.214100725 | 5 | 5 | 5 | 2 |
| ENSG00000172458.4 | -1.086513524 | background | background | 5 | 4 |
| ENSG00000172482.4 | -1.253629659 | background | 5 | background | 3 |
| ENSG00000172493.20 | 1.117149799 | 5 | background | 4 | 3 |
| ENSG00000172500.12 | -1.054327185 | 5 | background | background | 4 |
| ENSG00000172748.13 | 1.154478805 | background | 5 | background | 4 |
| ENSG00000172927.3 | 1.659557476 | 5 | background | 5 | 4 |
| ENSG00000172955.17 | -1.960511843 | background | background | 3 | 3 |
| ENSG00000172986.12 | -1.365917645 | 5 | 4 | background | 4 |
| ENSG00000173065.13 | 1.144548178 | background | background | 5 | 4 |
| ENSG00000173080.5 | 2.04380835 | NA | NA | 5 | 5 |
| ENSG00000173110.7 | 2.20484803 | NA | background | background | 5 |
| ENSG00000173175.14 | 2.414685909 | 5 | 5 | 5 | 3 |
| ENSG00000173212.4 | 1.440212571 | background | background | 5 | 4 |
| ENSG00000173334.3 | 1.03020101 | background | 5 | 5 | 5 |
| ENSG00000173567.14 | 2.644535715 | background | background | 5 | 4 |
| ENSG00000173575.20 | 1.446766715 | background | 5 | 4 | 4 |
| ENSG00000173597.8 | 1.098768581 | background | background | 4 | 4 |
| 87 | ENSG00000173681.16 | 1.071192531 | background | background | 5 | 4 |
| 87 | ENSG00000173702.7 | 1.252358286 | background | background | 5 | 3 |
| 87 | ENSG00000173728.10 | 3.909565751 | background | background | 4 |
| 87 | ENSG00000173805.15 | 1.387101368 | 5 | background | 2 | 2 |
| 87 | ENSG00000173898.11 | -1.046027228 | NA | background | 4 |
| 87 | ENSG00000173915.14 | -1.891664598 | background | background | 5 | 4 |
| 87 | ENSG00000173930.8 | -2.533079494 | NA | background | 4 |
| 87 | ENSG00000173991.5 | 2.0063800548 | background | background | 3 |
| 87 | ENSG00000174038.12 | 2.62337705 | background | background | 3 | 3 |
| 87 | ENSG00000174099.10 | 1.483294469 | background | background | 4 | 4 |
| 87 | ENSG00000174371.16 | -1.129930978 | NA | background | 5 | 4 |
| 87 | ENSG00000174500.12 | 1.104741932 | background | background | 4 | 4 |
| 87 | ENSG00000174564.12 | 1.719601134 | 5 | background | 4 |
| 87 | ENSG00000174718.11 | -1.383470692 | 5 | background | 4 |
| 87 | ENSG00000174945.13 | 2.54552065 | background | background | 5 | 4 |
| 87 | ENSG00000175003.12 | 4.072558262 | background | background | 5 | 4 |
| 87 | ENSG00000175155.8 | -1.129930978 | background | background | 5 | 4 |
| 87 | ENSG00000175283.7 | -1.079284746 | 4 | 5 | 3 | 3 |
| 87 | ENSG00000175567.8 | -1.419146829 | background | background | 5 | 4 |
| 87 | ENSG00000175592.8 | 1.428619191 | NA | background | 4 | 4 |
| 87 | ENSG00000175643.8 | -1.066671464 | NA | background | 4 | 3 |
| 87 | ENSG00000175701.10 | -1.028927297 | 4 | background | 4 | 3 |
| 87 | ENSG00000175768.12 | -1.094322199 | NA | background | 4 | 4 |
| 87 | ENSG00000175854.11 | -1.084275996 | NA | background | 3 |
| 87 | ENSG00000176171.11 | -1.0036495 | background | background | 4 |
| 87 | ENSG00000176209.11 | -1.210800883 | background | background | 5 |
| 87 | ENSG00000176399.3 | 1.773077771 | NA | background | 5 | 4 |
| 87 | ENSG00000176495.3 | 1.300408737 | NA | background | 4 |
| 87 | ENSG00000176532.3 | -1.024929098 | NA | background | 5 |
| 87 | ENSG00000176533.12 | -1.256221718 | 5 | background | 4 | 3 |
| 87 | ENSG00000176641.10 | 3.953573258 | NA | background | 3 | 3 |
| 87 | ENSG00000176731.11 | -1.04338293 | background | background | 5 |
| 87 | ENSG00000176749.8 | 1.162150862 | NA | background | 5 | 5 |
| 87 | ENSG00000176845.12 | 1.472218397 | background | background | 3 |
| Genes       | Expression  | P-value  | FDR-value | Target | Background | Avg BN | Avg MQ |
|------------|-------------|----------|-----------|--------|------------|--------|--------|
| ENSG00000176928.5 | 1.08679823  | NA       | 5         | 5      | 5          |
| ENSG00000177042.14 | 1.093028225 | background | background | background | 4        |
| ENSG00000177303.9 | 1.367198688 | 5         | background | background | 3        |
| ENSG00000177311.11 | 1.00502407  | NA       | NA        | NA     | 4          |
| ENSG00000177352.9 | -1.253591312 | 4         | background | background | 5        |
| ENSG00000177374.12 | 2.89663256  | NA       | background | background | 5        |
| ENSG00000177460.6  | 1.42996694  | NA       | background | background | 5        |
| ENSG00000177465.5  | 2.89663256  | NA       | background | background | 5        |
| ENSG00000177606.6  | 1.42996694  | NA       | background | background | 5        |
| ENSG00000177630.3  | -1.58309754 | 5         | background | background | 4        |
| ENSG00000177674.15 | -1.00467597 | background | background | background | 4        |
| ENSG00000177842.15 | 5.904370936 | 5         | background | background | 5        |
| ENSG00000177700.5  | -1.052991191| NA       | background | background | 5        |
| ENSG00000177954.11 | -1.049279869| background | background | background | 5        |
| ENSG00000177984.6  | -1.682974086| background | background | background | 5        |
| ENSG00000178057.14 | -1.918964578| background | background | background | 5        |
| ENSG00000178075.19 | 3.238074991 | background | background | background | 5        |
| ENSG00000178150.9  | 1.036904302 | background | background | background | 4        |
| ENSG00000178201.4  | 1.648460003 | NA       | background | background | 5        |
| ENSG00000178301.3  | -1.495848783| NA       | background | background | 4        |
| ENSG00000178366.12 | 1.002792066 | background | background | background | 4        |
| ENSG00000178467.17 | 4.368101656 | 5         | background | background | 2        |
| ENSG00000178585.14 | -1.338386331| 5         | background | background | 3        |
| ENSG00000178773.14 | 2.091532168 | 5         | background | background | 3        |
| ENSG00000178795.9  | 3.364637297 | 5         | background | background | 4        |
| ENSG00000178802.17 | -1.387031702| 5         | background | background | 4        |
| ENSG00000178821.12 | -1.529142026| background | background | background | 5        |
| ENSG00000178852.15 | 1.555017429 | background | background | background | 4        |
| ENSG00000178899.12 | -1.201140969| 5         | background | background | 4        |
| ENSG00000179091.4  | -1.018647087| background | background | background | 5        |
| ENSG00000179222.17 | -1.199870151| background | background | background | 3        |
| ENSG00000179240.9  | -1.539234248| NA       | background | background | 4        |
| ENSG00000179284.5  | 5.023513959 | NA       | 5         | 5      | 4          |
| ENSG00000179388.8  | 2.4496805   | NA       | 5         | 5      | 4          |
| ENSG00000179455.7  | 1.244548834 | NA       | background | background | 4        |
| ENSG00000179528.15 | -1.062381242| NA       | background | background | 5        |
| ENSG00000179546.4  | 1.224211963 | NA       | background | background | 5        |
| ENSG00000179583.18 | 1.009238922 | 4         | background | background | 4        |
| ENSG00000179588.8  | 1.086962182 | 5         | background | background | 3        |
| ENSG00000179636.14 | -2.201683547| 5         | 5         | 5      | 4          |
| ENSG00000179761.11 | -1.254277334| background | background | background | 4        |
| ENSG00000180071.19 | 1.342424037 | background | background | background | 5        |
| ENSG00000180089.5  | -1.143151389| 5         | 5         | 5      | 4          |
| Row | Gene ID               | Value       | Background | Background | Background |
|-----|----------------------|-------------|------------|------------|------------|
| 1   | ENSG00000180209.11   | 2.639271671 | background | background | background |
| 2   | ENSG00000180346.3    | -1.123306594| NA         | background | background |
| 3   | ENSG00000180535.3    | -1.021296737| NA         | background | background |
| 4   | ENSG00000180596.7    | 2.003042851 | NA         | background | background |
| 5   | ENSG00000180767.9    | -1.560514985| background | background | 5          |
| 6   | ENSG00000180806.4    | 2.083541792 | NA         | background | 5          |
| 7   | ENSG00000180834.7    | 1.306576004 | background | background | 5          |
| 8   | ENSG00000181016.9    | 1.393659767 | NA         | background | 5          |
| 9   | ENSG00000181135.15   | 1.292416233 | 5          | 5          | 4          |
| 10  | ENSG00000181163.13   | -1.08320279 | background | background | 4          |
| 11  | ENSG00000181220.15   | 1.117998386 | background | background | 3          |
| 12  | ENSG00000181392.14   | -1.002119164| background | background | 4          |
| 13  | ENSG00000181625.17   | -1.4709018  | background | background | 4          |
| 14  | ENSG00000181649.5    | 1.541420182 | NA         | background | 5          |
| 15  | ENSG00000181722.16   | 1.661935096 | 4          | 4          | 4          |
| 16  | ENSG00000181856.14   | -1.126744571| 5          | 4          | 5          |
| 17  | ENSG00000182004.12   | -1.044033039| background | background | 4          |
| 18  | ENSG00000182054.9    | -1.288768736| 5          | 5          | 5          |
| 19  | ENSG00000182156.9    | -1.372790838| 5          | background | 3          |
| 20  | ENSG00000182175.13   | 1.417044731 | background | background | 4          |
| 21  | ENSG00000182179.12   | -1.000872178| 5          | background | 4          |
| 22  | ENSG00000182199.10   | -1.342350544| background | background | 4          |
| 23  | ENSG00000182308.6    | 2.77845906  | NA         | background | 5          |
| 24  | ENSG00000182310.13   | 2.705318251 | background | background | 4          |
| 25  | ENSG00000182324.6    | 1.618368011 | background | background | 5          |
| 26  | ENSG00000182580.2    | 2.645786652 | 5          | 4          | background |
| 27  | ENSG00000182963.9    | 1.710714961 | NA         | background | 4          |
| 28  | ENSG00000183010.16   | -1.183766824| background | background | 5          |
| 29  | ENSG00000183018.8    | 1.19865971  | 5          | background | 4          |
| 30  | ENSG00000183048.11   | -1.27780581 | background | background | 4          |
| 31  | ENSG00000183072.9    | 1.906491355 | NA         | background | 4          |
| 32  | ENSG00000183091.19   | -1.033137871| 5          | background | 4          |
| 33  | ENSG00000183206.17   | 1.156294967 | 5          | NA         | 4          |
| 34  | ENSG00000183496.5    | 1.507043971 | NA         | 5          | background |
| 35  | ENSG00000183527.11   | -1.009716018| background | background | 5          |
| 36  | ENSG00000183549.10   | -1.20259591 | background | background | 4          |
| 37  | ENSG00000183629.13   | 2.93657019  | 5          | background | NA         |
| 38  | ENSG00000183648.9    | -1.122144165| background | background | 4          |
| 39  | ENSG00000183765.20   | -1.138398063| 5          | background | 3          |
| 40  | ENSG00000183773.15   | -1.391026114| 4          | 5          | background |
| 41  | ENSG00000183813.6    | 2.422927816 | NA         | background | 4          |
| Gene ID            | Value 1     | Value 2     | Value 3     | Value 4     | Value 5     | Value 6     |
|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| ENSG00000183831.6 | 4.24587012  | background  | background  | 5           | 4           |             |
| ENSG00000183978.7 | -1.541486222| NA          | background  | 4           |             |             |
| ENSG00000184012.11| 1.153259164 | background  | background  | 5           | 2           |             |
| ENSG00000184117.11| -1.63675563 | background  | 5           | 5           | 4           |             |
| ENSG00000184163.3 | 2.002952068 | 4           | background  | 4           |             |             |
| ENSG00000184164.14| -1.002552548| background  | background  | 4           |             |             |
| ENSG00000184207.8 | -1.109028184| NA          | background  | 5           | 5           |             |
| ENSG00000184232.8 | -1.078107332| 4           | 4           | 4           |             |             |
| ENSG00000184254.16| 3.625240575 | background  | background  | 4           |             |             |
| ENSG00000184260.5 | -1.643106225| NA          | NA          | 5           |             |             |
| ENSG00000184304.14| 1.777182598 | 5           | 5           | background  | 3           |             |
| ENSG00000184371.13| 1.141429515 | 5           | background  | 3           | 3           |             |
| ENSG00000184489.11| -1.649513543| background  | 5           | 5           | 4           |             |
| ENSG00000184508.10| -1.216204148| background  | 5           | 4           | 4           |             |
| ENSG00000184574.9 | 2.129726351 | NA          | 5           | 4           | 4           |             |
| ENSG00000184584.12| 1.100610726 | 5           | background  | 5           | 4           |             |
| ENSG00000184619.3 | -1.238518463| NA          | background  | 5           |             |             |
| ENSG00000184678.10| 1.558738817 | NA          | background  | background  | background  |             |
| ENSG00000184731.5 | 1.41008406 | NA          | NA          | background  | 5           |             |
| ENSG00000184767.7 | 1.05171115 | NA          | background  | 5           |             |             |
| ENSG00000184792.15| 1.202290447 | 5           | 5           | 5           |             |             |
| ENSG00000184898.6 | -1.01636459 | 5           | background  | 4           |             |             |
| ENSG00000184925.11| -1.137358973| background  | NA          | NA          | 3           |             |
| ENSG00000184956.15| 2.323807705 | 4           | background  | 5           | 3           |             |
| ENSG00000184984.9 | 1.634954206 | 5           | 5           | 5           | 4           |             |
| ENSG00000184990.12| -1.249517775| background  | background  | 5           |             |             |
| ENSG00000185022.11| 1.985929408 | background  | 5           | 5           | 4           |             |
| ENSG00000185112.5 | 1.005186691 | NA          | 4           | 5           | 4           |             |
| ENSG00000185155.11| -1.253153698| NA          | background  | 4           |             |             |
| ENSG00000185158.12| 1.013119995 | background  | background  | 4           |             |             |
| ENSG00000185262.8 | 1.080542258 | NA          | background  | 5           |             |             |
| ENSG00000185271.7 | 2.071681975 | 5           | NA          | NA          | 4           |             |
| ENSG00000185304.14| 2.100333396 | 5           | background  | 4           |             |             |
| ENSG00000185347.17 | -1.033785944| 5           | background  | 3           |             |             |
| ENSG00000185386.14| 1.372554241 | 4           | 5           | 5           |             |             |
| ENSG00000185475.10 | -1.081889046| 5           | background  | 5           |             |             |
| ENSG00000185499.16| 3.433803362 | 5           | background  | 5           |             |             |
| ENSG00000185532.15 | -2.917201386| 5           | background  | 5           |             |             |
| ENSG00000185565.11 | 4.122006723 | background  | 5           | 3           |             |             |
| ENSG00000185567.6 | 1.040754226 | background  | background  | 3           |             |             |
| ENSG00000185614.4 | 2.701939139 | NA          | 5           |             | background  | 4           |
| ENSG00000185745.9 | -1.346012078 | NA | background | background | 4 |
| ENSG00000185760.15 | 2.386550772 | 5 | background | background | 3 |
| ENSG00000185813.10 | -1.223691573 | 5 | background | 3 |
| ENSG00000185875.12 | -1.33490651 | background | background | 5 |
| ENSG00000185917.13 | 1.039744073 | 4 | background | 4 |
| ENSG00000185950.8 | 3.333573444 | NA | 5 |
| ENSG00000185955.4 | 4.922872041 | NA | 5 |
| ENSG00000185988.12 | 3.496524832 | background | 4 |
| ENSG00000185989.10 | 1.456095752 | background | 3 |
| ENSG00000186132.14 | -1.085527144 | background | background | 4 |
| ENSG00000186174.12 | 1.100309636 | 5 | background | 4 |
| ENSG00000186204.14 | -1.33416433 | background | background | 4 |
| ENSG00000186205.12 | -1.227077802 | background | background | 4 |
| ENSG00000186468.12 | -1.047560501 | background | background | 5 |
| ENSG00000186517.13 | 1.378231176 | 5 | background | 3 |
| ENSG00000186591.11 | 1.23255295 | background | background | 3 |
| ENSG00000186834.3 | 1.12086716 | NA | background | background | background |
| ENSG00000186854.10 | 1.609550369 | background | 5 |
| ENSG00000186910.3 | -1.376448399 | 5 | background | background | 5 |
| ENSG00000186919.12 | 2.558419142 | 5 | background | 4 |
| ENSG00000187017.15 | -1.295917598 | 5 | background | 3 |
| ENSG00000187024.14 | -1.66397624 | background | 3 |
| ENSG00000187045.16 | -1.45393282 | 5 | background | 2 |
| ENSG00000187180.3 | 5.308786365 | NA | background | background | background |
| ENSG00000187193.8 | -1.671820102 | NA | 5 |
| ENSG00000187288.10 | -1.265014541 | background | background | 4 |
| ENSG00000187475.5 | 3.761519262 | NA | background | background | background |
| ENSG00000187492.8 | 2.842227572 | 4 | background | background | 4 |
| ENSG00000187498.14 | 3.062971089 | 5 | background | 3 |
| ENSG00000187627.15 | 1.936631419 | NA | 5 |
| ENSG00000187630.15 | -1.084426663 | background | 4 |
| ENSG00000187678.8 | 1.44292693 | NA | background | 4 |
| ENSG00000187720.14 | 1.763540699 | 5 | background | 2 |
| ENSG00000187726.8 | 1.659916425 | background | 5 |
| ENSG00000187800.13 | 2.186271876 | 4 | 5 |
| ENSG00000188010.12 | -1.16124731 | background | 4 |
| ENSG00000188033.9 | 1.37445807 | background | 4 |
| ENSG00000188064.9 | 1.073564029 | 5 | background | 3 |
| ENSG00000188215.9 | 1.088610792 | background | background | 4 |
| ENSG00000188263.10 | 5.19708634 | 5 | background | 3 |
| Gene ID                  | Log2 Fold Change | Significance | FDR | N1 | N2 |
|-------------------------|------------------|--------------|-----|----|----|
| ENSG00000197150.12      | -1.094158457     | background   | 5   | 4  |    |
| ENSG00000197165.10      | -1.071584835     | background   | 4   |    |    |
| ENSG00000197208.5       | 1.435244734      | background   | 4   |    |    |
| ENSG00000197249.13      | -1.029742373     | 5            | 4   |    |    |
| ENSG00000197253.13      | 5.24535147       | 5            | 4   |    |    |
| ENSG00000197283.15      | 3.154324358      | 4            | 4   |    |    |
| ENSG00000197461.13      | 2.649683675      | 5            | 5   |    |    |
| ENSG00000197496.5       | -1.16604967      | 4            | 4   |    |    |
| ENSG00000197535.14      | 1.425629216      | 5            | 3   |    |    |
| ENSG00000197557.6       | -1.57748355      | NA           | 5   |    |    |
| ENSG00000197608.11      | 1.730644238      | background   | 3   |    |    |
| ENSG00000197647.11      | 1.656931121      | 5            | 4   |    |    |
| ENSG00000197653.15      | 2.69746373       | 4            | 4   |    |    |
| ENSG00000197653.15      | 2.69746373       | 5            | 4   |    |    |
| ENSG00000197714.8       | 1.15694629       | background   | 5   |    |    |
| ENSG00000197779.13      | 1.20248782       | background   | 3   |    |    |
| ENSG00000197780.9       | 1.21801202       | background   | 4   |    |    |
| ENSG00000197837.3       | 1.272263599      | NA           | 5   |    |    |
| ENSG00000197863.8       | 1.500730256      | background   | 5   |    |    |
| ENSG00000197894.10      | -1.189371539     | 5            | 5   |    |    |
| ENSG00000197958.12      | -1.001430603     | 5            | 5   |    |    |
| ENSG00000198026.7       | 1.482444345      | 4            | 2   |    |    |
| ENSG00000198056.13      | -1.046082804     | 4            | 4   |    |    |
| ENSG00000198064.13      | 1.610682316      | background   | 4   |    |    |
| ENSG00000198075.9       | 1.025246698      | background   | 5   |    |    |
| ENSG00000198099.8       | -2.587000936     | background   | 5   |    |    |
| ENSG00000198324.5       | 1.469813135      | background   | 3   |    |    |
| ENSG00000198393.7       | 1.111027228      | background   | 4   |    |    |
| ENSG00000198417.6       | -1.7666853       | NA           | 4   |    |    |
| ENSG00000198482.11      | 1.245972272      | background   | 3   |    |    |
| ENSG00000198517.9       | 1.289567233      | background   | 5   |    |    |
| ENSG00000198554.11      | -1.59892965      | background   | 3   |    |    |
| ENSG00000198576.3       | 4.741519216      | background   | 4   |    |    |
| ENSG00000198691.11      | 1.4590618129     | 5            | 4   |    |    |
| ENSG00000198720.12      | 1.154634625      | 5            | 4   |    |    |
| ENSG00000198721.12      | -1.191572678     | 5            | 4   |    |    |
| ENSG00000198736.11      | -1.281235866     | background   | 4   |    |    |
| ENSG00000198753.11      | 1.811888599      | 4            | 4   |    |    |
| ENSG00000198785.4       | 1.341793458      | 5            | 3   |    |    |
| ENSG00000198835.3       | 1.088182358      | NA           | 5   |    |    |
| ENSG00000198853.11      | 1.550076534      | 5            | 4   |    |    |
| Position | Gene ID         | Value     | Count | Background Count |
|----------|----------------|-----------|-------|------------------|
| 87       | ENSG00000198931.10 | -1.362624673 | 5     | 5                |
| 87       | ENSG00000198944.5 | -1.129958789 | NA    | 5                |
| 87       | ENSG00000198945.7 | 1.076291497  | 4     | 5                |
| 87       | ENSG00000203667.9 | -1.031268882 | background | 5               |
| 87       | ENSG00000203778.7 | -1.177629181 | background | background | 4             |
| 87       | ENSG00000203786.6 | 4.98104517  | NA    | 5                |
| 87       | ENSG00000203814.6 | 2.252992542  | NA    | background | 4             |
| 87       | ENSG00000203896.9 | -1.754689956 | 3     | background | 5             |
| 87       | ENSG00000203924.2 | 2.224970955  | NA    | background | background | 3             |
| 87       | ENSG00000203985.10 | -1.450387816 | background | background | 3             |
| 87       | ENSG00000204103.3 | 1.968117928  | 5     | 4                |
| 87       | ENSG00000204128.5 | -1.016271458 | NA    | background | 5             |
| 87       | ENSG00000204219.9 | -1.029363454 | 4     | 5                |
| 87       | ENSG00000204220.11 | -1.164589985 | background | background | 4             |
| 87       | ENSG00000204228.3 | -1.462040639 | background | background | 4             |
| 87       | ENSG00000204248.10 | 1.484187194  | 5     | 5                |
| 87       | ENSG00000204308.7 | -1.035290562 | background | background | 3             |
| 87       | ENSG00000204381.11 | 2.062904912  | background | 5                |
| 87       | ENSG00000204388.6 | 1.618064701  | NA    | background | 5             |
| 87       | ENSG00000204389.9 | 1.967725296  | NA    | background | background | background |
| 87       | ENSG00000204390.9 | 2.117805214  | NA    | background | background | 5             |
| 87       | ENSG00000204444.10 | -1.077263485 | 5     | 5                |
| 87       | ENSG00000204604.9 | 1.036619977  | background | background | 4             |
| 87       | ENSG00000204682.5 | -1.234883040 | NA    | 3                |
| 87       | ENSG00000204695.4 | 1.627183636  | NA    | background | 5             |
| 87       | ENSG00000204740.10 | 1.15941213   | 5     | 5                |
| 87       | ENSG00000204852.15 | -1.095134889 | background | background | 4             |
| 87       | ENSG00000204922.4 | -1.404776343 | NA    | background | 4             |
| 87       | ENSG00000205220.11 | -1.360626546 | background | background | 5             |
| 87       | ENSG00000205238.9 | 3.821193523  | NA    | NA              | 4             |
| 87       | ENSG00000205403.12 | -1.146167161 | background | background | 3             |
| 87       | ENSG00000205426.10 | 4.214157376  | background | 5                |
| 87       | ENSG00000205436.7 | -1.404243087 | background | 5                |
| 87       | ENSG00000205544.3 | -1.552970691 | background | background | 5             |
| 87       | ENSG00000205670.10 | 2.32343913   | 5     | background | 3             |
| 87       | ENSG00000205903.6 | 1.134138251  | background | background | 5             |
| 87       | ENSG00000206530.10 | -1.197743822 | background | background | 3             |
| 87       | ENSG00000206538.8 | 1.678197255  | background | 5                |
| 87       | ENSG00000211452.10 | -1.770628354 | background | 5                |
|       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|
| ENSG00000212724.3 | 2.201658114 | NA | 5 | 5 | 4 |
| ENSG00000212901.3 | 1.991495866 | NA | background | 5 | 3 |
| ENSG00000213186.7 | 1.0819015 | background | background | 4 | 4 |
| ENSG00000213190.3 | 1.387982488 | NA | 4 | 5 | 4 |
| ENSG00000213213.13 | -1.050425387 | 5 | background | background | 4 |
| ENSG00000213339.8 | -1.326865119 | 5 | background | background | 4 |
| ENSG00000213462.4 | 1.203553382 | NA | background | background | 2 |
| ENSG00000213626.11 | 2.728336646 | background | 5 | 5 | 3 |
| ENSG00000213638.5 | 1.082370991 | NA | background | 5 | 4 |
| ENSG00000213654.9 | 1.615005422 | 5 | 5 | 5 | 5 |
| ENSG00000213760.10 | 3.000847702 | background | background | 5 | 5 |
| ENSG00000213793.5 | 1.006599617 | 5 | 5 | background | 4 |
| ENSG00000213886.3 | -1.186163747 | NA | background | background | 4 |
| ENSG00000213901.10 | 1.831914809 | 5 | background | background | 5 |
| ENSG00000213903.8 | 1.051852663 | NA | background | background | 4 |
| ENSG00000213930.11 | -1.076811654 | 5 | background | background | 4 |
| ENSG00000214026.10 | -1.456409544 | background | 5 | background | 4 |
| ENSG00000214140.10 | 2.054321915 | NA | background | background | 4 |
| ENSG00000214655.10 | 1.229780236 | 5 | background | background | 4 |
| ENSG00000214736.7 | -1.184929259 | NA | background | background | 3 |
| ENSG00000215440.11 | 1.095330911 | background | background | 3 |
| ENSG00000215529.12 | 5.192884545 | background | background | NA | 3 |
| ENSG00000215644.9 | 5.18227606 | 5 | background | background | 4 |
| ENSG00000216490.3 | -1.058558732 | NA | 4 | background | 3 |
| ENSG00000218891.4 | 1.148357085 | NA | background | 5 | 3 |
| ENSG00000219481.10 | 1.568072214 | background | 5 | background | 4 |
| ENSG00000220205.8 | 1.379907926 | 5 | 5 | 4 | 4 |
| ENSG00000221843.4 | -1.104588656 | NA | background | background | 4 |
| ENSG00000221883.2 | 1.25430081 | NA | background | background | background |
| ENSG00000221947.7 | 1.380450204 | background | background | 5 | 4 |
| ENSG00000221995.5 | 2.752072106 | NA | 4 | 4 | 4 |
| ENSG00000223547.9 | 1.126572418 | background | 5 | 5 | 4 |
| ENSG00000223953.5 | 2.1071808 | 5 | background | 5 | 5 |
| ENSG00000224877.3 | -1.143158474 | NA | background | background | 5 |
| ENSG00000225190.10 | 1.579632204 | 5 | background | 4 | 3 |
| ENSG00000226887.7 | -2.048160242 | background | 5 | background | 4 |
| ENSG00000228474.5 | -1.147159318 | NA | 4 | background | 4 |
| ENSG00000228716.6 | -1.33199641 | background | background | 5 | 4 |
| ENSG00000229089.7 | 1.422018832 | background | background | background | 4 |
| ENSG00000231274.5 | 2.383172196 | background | NA | background | 4 |
| ENSG00000231389.7 | 3.015194251 | 5 | 5 | background | 3 |
| Gene ID       | Log2 Fold Change | Feature 1 | Feature 2 | Feature 3 | Feature 4 | Feature 5 | Feature 6 |
|--------------|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|
| ENSG00000232112.3 | -1.048419531    | background | background | background | 5         |           |           |
| ENSG00000232237.3 | 5.905247113     | NA        | background | background | 5         |           |           |
| ENSG00000233822.4 | 1.432209514     | NA        | NA        | background | 4         |           |           |
| ENSG00000234776.4 | 3.52261617      | 5         | background | background | 5         |           |           |
| ENSG00000234906.9 | -1.206348472    | 4         | background | background | 4         |           |           |
| ENSG00000235169.7 | -2.178772427    | background | background | background | 4         |           |           |
| ENSG00000235173.6 | -1.021366235    | background | background | background | 4         |           |           |
| ENSG00000237440.8 | 1.291440872     | background | background | background | 4         |           |           |
| ENSG00000239305.6 | 1.124848214     | 5         | background | background | 3         |           |           |
| ENSG00000239605.9 | 2.618709094     | background | background | background | 4         |           |           |
| ENSG00000240065.7 | -1.280692063    | background | background | background | 4         |           |           |
| ENSG00000241839.9 | 1.077606279     | NA        | background | 5         | 4         |           |           |
| ENSG00000242689.2 | 1.301789586     | NA        | background | 5         | 5         |           |           |
| ENSG00000243335.9 | 1.0433138       | 4         | 4         | 2         |           |           |           |
| ENSG00000243364.7 | -1.180140307    | 4         | background | 5         | 4         |           |           |
| ENSG00000243955.5 | -2.058266004    | background | background | background | 4         |           |           |
| ENSG00000243989.8 | -1.266956914    | 5         | background | 5         | 4         |           |           |
| ENSG00000244045.12 | -1.017219196   | background | background | 5         | 5         |           |           |
| ENSG00000244067.2 | -1.750566568    | background | background | background | 4         |           |           |
| ENSG00000244187.7 | -1.596196625    | background | background | background | 5         |           |           |
| ENSG00000245848.2 | -1.116820039    | NA        | background | 5         |           |           |           |
| ENSG00000248871.1 | -7.184695696    | 5         | background | 5         | 4         |           |           |
| ENSG00000248905.8 | 2.722776166     | 3         | NA        | 5         | 3         |           |           |
| ENSG00000249437.7 | 1.077415737     | background | background | 5         | 4         |           |           |
| ENSG00000249459.8 | 1.344094648     | 4         | background | 4         |           |           |           |
| ENSG00000249624.8 | -3.945389098    | background | NA        | NA        | 4         |           |           |
| ENSG00000249853.7 | -1.257389712    | background | 4         | background | 3         |           |           |
| ENSG00000249992.1 | 1.688542309     | NA        | background | background | 5         |           |           |
| ENSG00000250317.8 | -1.026011272    | NA        | 5         | background | 4         |           |           |
| ENSG00000250479.8 | -1.038908147    | 4         | 4         | 4         |           |           |           |
| ENSG00000250722.5 | -1.312207094    | background | 5         | background | 4         |           |           |
| ENSG00000250799.9 | -1.497239738    | background | background | background | 5         |           |           |
| ENSG00000251247.10 | 1.191876669    | NA        | background | background | 4         |           |           |
| ENSG00000251493.4 | 2.424680681     | NA        | background | background | 4         |           |           |
| ENSG00000251503.8 | -1.531289472    | 5         | background | 4         |           |           |           |
| ENSG00000253649.3 | 2.911664061     | background | background | 5         | 3         |           |           |
| ENSG00000255150.2 | 1.92684413      | NA        | background | background |           |           |           |
| ENSG00000255767.1 | -5.223062917    | background | NA        | background | 4         |           |           |
| ENSG00000256087.6 | 1.347025681     | background | background | background | 3         |           |           |
| ENSG00000256162.2 | -1.274083586    | NA        | background | 5         | 5         |           |           |
| ENSG00000256223.5 | 1.441300611     | 5         | 5         | background | 4         |           |           |
| Gene ID | Log2 Fold Change | P-Value | Strand | Background | Analysis 1 | Analysis 2 |
|--------|-----------------|---------|--------|-----------|-----------|-----------|
| ENSG00000257017.4 | -1.733110247 | 5 | background | background | 4 |
| ENSG00000258289.8 | -1.077418148 | background | background | 5 | 4 |
| ENSG00000258674.5 | 1.16576278 | background | background | 5 | 4 |
| ENSG00000259316.10 | -1.317673331 | background | background | NA | 3 |
| ENSG00000259803.6 | -1.343105754 | 5 | NA | background | 4 |
| ENSG00000260097.2 | 1.77526203 | background | background | background | 4 |
| ENSG00000261308.2 | 1.551396904 | NA | background | 3 | 3 |
| ENSG00000261701.6 | -1.480967538 | 5 | background | background | 4 |
| ENSG00000262655.3 | 2.499038305 | background | 5 | background | 3 |
| ENSG00000262814.7 | -1.122462912 | background | background | background | 5 |
| ENSG00000264343.5 | 1.446418204 | background | 5 | background | 4 |
| ENSG00000265190.6 | 2.472872695 | background | background | 4 | 4 |
| ENSG00000266338.6 | 1.13965622 | background | 5 | 5 | 4 |
| ENSG00000266964.5 | -1.239450985 | background | background | 4 | 4 |
| ENSG00000267041.5 | 1.320616662 | background | background | 4 | 4 |
| ENSG00000267855.5 | -1.251625924 | background | background | background | 4 |
| ENSG00000269720.2 | 6.322870341 | background | NA | NA | 4 |
| ENSG00000270136.5 | 2.035220414 | background | background | 5 | 4 |
| ENSG00000270898.5 | 1.499732351 | background | 5 | background | 4 |
| ENSG00000271425.7 | 2.134018579 | background | background | NA | 4 |
| ENSG00000272031.2 | 1.852882268 | 5 | 4 | 4 | 4 |
| ENSG00000272196.2 | 1.65900963 | NA | background | background | background |
| ENSG00000272333.5 | 1.108118041 | 5 | NA | 4 | 4 |
| ENSG00000273047.1 | -2.317521393 | NA | NA | NA | 4 |
| ENSG00000273173.5 | 1.309302837 | background | background | background | 4 |
| ENSG00000274180.1 | 1.163705346 | 5 | background | background | 4 |
| ENSG00000274276.4 | -1.325456286 | 5 | background | background | 3 |
| ENSG00000274588.1 | -1.096880746 | 5 | background | background | 4 |
| ENSG00000274897.2 | 1.265169619 | NA | background | 5 | 4 |
| ENSG00000274933.5 | 2.292569826 | background | background | NA | 4 |
| ENSG00000274944.4 | -4.962458642 | background | background | background | 4 |
| ENSG00000275221.1 | 4.200413988 | NA | NA | NA | 5 |
| ENSG00000275342.4 | 1.541273165 | 5 | 5 | 5 | 4 |
| ENSG00000275832.4 | 2.943004556 | background | background | 5 | 4 |
| ENSG00000276043.4 | -1.043661717 | 5 | background | background | 3 |
| ENSG00000276076.4 | -1.778327221 | NA | background | 5 | 4 |
| ENSG00000276368.1 | -1.921230418 | NA | NA | NA | background |
| ENSG00000276966.2 | 1.326941283 | NA | background | 5 | 5 |
| ENSG00000277481.1 | 3.614520534 | 5 | NA | NA | 3 |
| ENSG00000277639.2 | 2.468160812 | background | 5 | 5 | 4 |
| ENSG00000277669.1 | -1.146297502 | background | background | NA | 4 |
|  | ENSG00000277972.1 | -1.521573962 | NA | background | 5 | 5 |
|---|---|---|---|---|---|---|
| 87 | ENSG00000280433.1 | 3.462131928 | background | NA | background | 5 |
| 87 | ENSG00000281028.1 | -2.144118806 | background | background | background | 4 |
| 87 | ENSG00000282301.1 | 6.5197153 | S | background | 5 | 4 |
| 87 | ENSG00000282936.1 | 1.98275044 | NA | NA | NA | 5 |
| 87 | ENSG00000283496.1 | -2.285038246 | S | NA | 4 | 3 |
| 87 | ENSG00000283654.1 | 4.378710902 | background | background | background | 5 |
| 113 | ENSG00000143786.7 | 1.012183484 | background | background | background | 5 |
| 113 | ENSG00000186409.14 | 1.400398046 | background | NA | background | 4 |
| 113 | ENSG00000248905.8 | -1.154425633 | background | NA | 5 | 4 |
| 114 | ENSG00000000460.16 | -1.096267552 | background | background | background | 5 |
| 114 | ENSG00000002586.18 | -1.096267552 | NA | background | background | 5 |
| 114 | ENSG00000003989.17 | -1.243630169 | background | background | background | 5 |
| 114 | ENSG0000004777.18 | -2.00934173 | background | background | background | 5 |
| 114 | ENSG0000005073.5 | 3.380530084 | NA | background | background | 5 |
| 114 | ENSG0000005108.15 | 3.40202222 | background | background | background | 5 |
| 114 | ENSG0000005238.19 | 1.337144096 | background | background | background | 5 |
| 114 | ENSG0000005486.16 | 1.755377388 | background | background | background | 5 |
| 114 | ENSG0000005513.9 | 1.339214157 | background | background | 3 | 3 |
| 114 | ENSG0000005981.12 | 1.4478158 | background | background | background | 5 |
| 114 | ENSG0000006606.8 | 3.66636759 | background | background | background | 5 |
| 114 | ENSG0000006652.13 | 1.62735882 | background | background | background | 5 |
| 114 | ENSG0000007171.16 | 4.866733151 | background | background | background | 5 |
| 114 | ENSG0000007237.18 | 2.167487816 | background | background | background | 5 |
| 114 | ENSG0000007264.14 | 1.41455494 | S | background | background | 5 |
| 114 | ENSG0000007312.12 | 3.74355136 | background | background | background | 5 |
| 114 | ENSG0000007314.12 | 3.082624528 | background | background | background | 5 |
| 114 | ENSG0000007384.15 | 1.027144319 | S | background | background | 5 |
| 114 | ENSG0000010278.12 | 1.23764576 | background | background | background | 5 |
| 114 | ENSG0000010327.10 | 1.023807876 | background | background | background | 5 |
| 114 | ENSG0000010361.13 | 1.526749626 | background | background | background | 5 |
| 114 | ENSG0000010610.9 | 1.187705288 | background | background | background | 5 |
| 114 | ENSG0000011258.15 | -1.167814725 | S | background | background | 5 |
| 114 | ENSG0000012779.10 | 3.692898161 | background | background | background | 5 |
| 114 | ENSG0000012822.15 | 1.069480481 | background | background | background | 5 |
| 114 | ENSG0000013364.18 | 1.435044913 | background | background | background | 5 |
| 114 | ENSG0000014914.20 | 2.777078299 | background | background | background | 5 |
| 114 | ENSG0000018236.14 | 4.950201648 | background | background | background | 4 |
| 114 | ENSG0000018869.16 | 1.004602571 | background | background | background | 5 |
| 114 | ENSG0000019102.11 | 1.053521018 | background | background | background | 5 |
| ENSG00000020633.18 | 1.650088827 | background | background | background | 5 |
|-------------------|-------------|------------|------------|------------|---|
| ENSG00000021461.16 | 2.137007328 | background | NA         | NA         | 4 |
| ENSG00000021762.19 | 2.92691007  | background | background | background | 5 |
| ENSG00000022567.9  | 1.818084502 | background | background | background | 5 |
| ENSG00000023171.16 | 1.94222456  | background | background | background | 3 |
| ENSG00000024526.16 | -1.16405107 | background | background | background | 4 |
| ENSG00000026103.21 | 1.108564457 | background | background | background | 5 |
| ENSG00000026297.15 | -1.185827727| background | background | background | 4 |
| ENSG00000026652.13 | 2.773410247 | background | background | background | 5 |
| ENSG00000027280.15 | 1.344821104 | background | background | background | 5 |
| ENSG00000029993.14 | -1.01314938 | background | background | background | 4 |
| ENSG00000032444.15 | 1.358045024 | background | background | background | 5 |
| ENSG00000034239.10 | 1.147114664 | background | background | background | 5 |
| ENSG00000035115.21 | 1.458653914 | background | background | background | 5 |
| ENSG00000035664.11 | 3.023164821 | background | background | background | 5 |
| ENSG00000036473.6  | 2.87073649  | background | background | background | 5 |
| ENSG00000036672.15 | 1.02023868  | background | background | background | 5 |
| ENSG00000037280.15 | 1.344821104 | background | background | background | 5 |
| ENSG00000037965.5  | 1.958042107 | NA         | background | background | 5 |
| ENSG00000039139.9  | 2.455600271 | background | background | background | 4 |
| ENSG00000042062.11 | 1.36134509  | background | background | background | 5 |
| ENSG00000042832.11 | 3.656246951 | background | background | background | 4 |
| ENSG00000047346.12 | 1.695473216 | background | background | background | 5 |
| ENSG00000047365.11 | 1.232209227 | background | background | background | 4 |
| ENSG00000047634.14 | -1.028259859| background | background | background | 5 |
| ENSG00000048392.11 | 1.58217423  | background | background | background | 5 |
| ENSG00000049130.14 | 1.667830643 | background | background | background | 5 |
| ENSG00000049283.17 | 1.19106288  | background | background | background | 5 |
| ENSG00000050555.17 | 1.382137706 | background | background | background | 5 |
| ENSG00000050767.15 | 5.41860026  | background | background | background | 5 |
| ENSG00000051341.13 | -1.122136666| background | background | background | 5 |
| ENSG00000053747.15 | 1.515205641 | background | background | background | 5 |
| ENSG00000053918.15 | 4.562278593 | background | background | background | 5 |
| ENSG00000054179.11 | -1.224707271| background | background | background | 5 |
| ENSG00000054219.10 | 1.895637096 | background | background | background | 5 |
| ENSG00000054938.15 | 2.598593789 | background | background | background | 5 |
| ENSG00000055732.12 | 1.410621648 | background | background | background | 5 |
| ENSG00000055955.15 | 2.745158239 | background | background | background | 5 |
| ENSG00000055957.10 | 1.760979056 | background | background | background | 5 |
| ENSG00000058335.15 | 1.957347797 | background | background | background | 5 |
| ENSG00000059804.15 | -1.968006641| background | background | background | 5 |
| Gene ID  | Log2 Fold Change | Background Count | Background Sum | Background Mean | Background Median |
|---------|-----------------|------------------|----------------|----------------|------------------|
| ENSG00000063241.7 | 1.048823336 | background | background | background | background |
| ENSG00000063438.16 | 1.826926135 | background | background | background | background |
| ENSG00000064201.15 | 2.519255928 | background | background | background | background |
| ENSG00000065150.18 | -1.067601915 | background | background | background | background |
| ENSG00000065320.8 | 2.584169811 | background | background | background | background |
| ENSG00000065325.12 | 1.517201043 | background | background | background | background |
| ENSG00000065357.19 | -1.483053795 | background | background | background | background |
| ENSG00000065675.14 | 1.052915309 | background | background | background | background |
| ENSG00000065882.15 | -1.268126036 | background | background | background | background |
| ENSG00000066248.14 | 1.012785459 | background | background | background | background |
| ENSG00000066279.17 | -1.208221171 | background | background | background | background |
| ENSG00000066468.22 | 1.40391825 | background | background | background | background |
| ENSG00000067129.13 | 1.841528865 | background | background | background | background |
| ENSG00000067194.15 | 2.972269386 | background | background | background | background |
| ENSG00000067311.13 | -1.040059158 | background | background | background | background |
| ENSG00000067416.13 | 1.518711471 | background | background | background | background |
| ENSG00000067507.12 | 1.799127891 | background | background | background | background |
| ENSG00000067521.17 | 1.011451286 | background | background | background | background |
| ENSG00000067589.12 | 3.422424144 | background | background | background | background |
| ENSG00000067971.12 | 1.799127891 | background | background | background | background |
| ENSG00000067981.11 | 1.247585274 | background | background | background | background |
| ENSG00000070915.9 | -1.966523255 | background | background | background | background |
| ENSG00000070985.13 | 3.422424144 | background | background | background | background |
| ENSG00000071205.11 | 2.462165327 | background | background | background | background |
| ENSG00000071794.15 | -1.261341175 | background | background | background | background |
| ENSG00000072041.16 | 2.972269386 | background | background | background | background |
| ENSG00000072135.12 | -1.44195142 | background | background | background | background |
| ENSG00000072135.12 | -1.44195142 | background | background | background | background |
| ENSG00000072182.12 | 3.079234472 | background | background | background | background |
| ENSG00000072571.19 | 2.462165327 | background | background | background | background |
| ENSG00000072901.08 | 1.016629381 | background | background | background | background |
| ENSG00000073111.13 | -1.721341175 | background | background | background | background |
| ENSG00000074710.17 | 1.011451286 | background | background | background | background |
| ENSG00000074816.13 | 1.518711471 | background | background | background | background |
| ENSG0000007507.12 | 1.40391825 | background | background | background | background |
| ENSG0000007521.17 | 1.016629381 | background | background | background | background |
| ENSG00000075461.5 | 3.079234472 | background | background | background | background |
| ENSG00000075891.21 | 1.981742866 | background | background | background | background |
| Gene ID | Description | Log2 Fold Change | Interactions | Background | Additional Notes |
|---------|-------------|-----------------|--------------|------------|-----------------|
| ENSG000000076003.4 | -1.0446611 | background | background | background | background |
| ENSG000000078018.19 | 4.983634068 | background | background | background | 5 | 5 |
| ENSG000000079804.12 | 1.11032695 | background | background | background | background |
| ENSG000000078814.15 | 1.500198013 | background | background | background | background |
| ENSG000000079134.11 | -1.043900669 | background | background | background | 5 |
| ENSG000000079337.15 | 1.446741489 | background | background | background | 4 |
| ENSG000000079393.20 | 2.27457472 | background | background | background | background |
| ENSG000000080986.12 | -1.825148253 | background | background | background | background |
| ENSG000000081985.10 | 2.696198497 | background | background | background | 5 |
| ENSG000000082068.8 | -1.048211363 | background | background | background | 4 |
| ENSG000000082074.15 | 4.051578894 | background | background | background | 5 | 5 |
| ENSG000000082212.12 | -2.054429851 | background | background | background | 5 |
| ENSG000000082293.12 | 2.28006128 | background | background | background | 5 |
| ENSG000000082684.14 | 2.722825638 | background | background | background | 5 |
| ENSG000000084110.10 | -1.223767532 | background | background | background | background |
| ENSG000000085117.11 | 1.327108058 | background | background | background | background |
| ENSG000000085365.17 | -1.768291383 | background | background | background | 5 |
| ENSG000000085741.12 | 1.253084554 | background | background | background | 5 |
| ENSG000000085760.14 | -1.80075074 | background | background | background | 5 |
| ENSG000000085840.12 | -1.085796966 | background | background | background | 5 |
| ENSG000000086159.12 | 2.131950673 | NA | background | background | background |
| ENSG000000087076.8 | 2.390997007 | background | background | background | 5 |
| ENSG000000087077.13 | 1.614378851 | background | background | background | background |
| ENSG000000087085.13 | 2.436580292 | background | background | background | background |
| ENSG000000087237.10 | 1.289670193 | background | background | background | 5 |
| ENSG000000087338.4 | -1.088626984 | background | background | background | background |
| ENSG000000088826.17 | 1.051663497 | background | background | background | 5 |
| ENSG000000089116.3 | 1.677657553 | background | background | background | background |
| ENSG000000089692.8 | 1.46801381 | background | background | background | 5 |
| ENSG000000089723.9 | 1.00739259 | background | background | background | background |
| ENSG000000089847.12 | 2.507115471 | background | background | background | 5 |
| ENSG000000090006.17 | 1.032328401 | background | NA | background | 5 |
| ENSG000000090238.11 | 1.237432066 | background | background | background | background |
| ENSG000000090447.11 | -1.102569464 | background | background | background | background |
| ENSG000000090674.15 | 1.402255582 | background | background | background | background |
| ENSG000000090776.5 | 1.118388181 | background | background | background | background |
| ENSG000000090889.11 | -1.096672171 | background | background | background | 5 |
| ENSG000000090989.17 | -1.374670673 | background | background | background | background |
| ENSG000000090989.17 | -1.374670673 | background | background | background | background |
| ENSG000000091129.19 | -1.144436894 | background | background | background | 4 |
| ENSG000000091704.9 | 3.913877782 | background | background | background | background |
| Gene Symbol | Gene Name | Expression Value | Background | Background | Background | Background |
|-------------|-----------|-----------------|------------|------------|------------|------------|
| ENSG00000092051.16 | 2.376565891 | background | background | background | background |
| ENSG00000092529.23 | 1.484803185 | background | background | background | background |
| ENSG00000092621.12 | -1.242840538 | background | background | background | background |
| ENSG00000093072.15 | 2.218902628 | background | background | background | background |
| ENSG00000094755.16 | 2.218902628 | background | background | background | background |
| ENSG00000095002.13 | -1.050649649 | background | background | background | background |
| ENSG00000095303.14 | 2.640768471 | background | background | background | background |
| ENSG00000095319.14 | -1.231408535 | background | background | background | background |
| ENSG00000095464.9 | 3.178997078 | background | background | background | background |
| ENSG00000095596.11 | 1.953416528 | NA | background | background | background |
| ENSG00000095970.16 | 5.248153004 | background | background | background | background |
| ENSG00000096088.16 | 2.234508851 | background | background | background | background |
| ENSG00000096996.15 | 1.122166147 | background | background | background | background |
| ENSG00000097914.5 | -1.094348983 | background | background | background | background |
| ENSG00000099260.10 | 1.125488087 | background | background | background | background |
| ENSG00000099308.10 | 1.221701374 | NA | background | background | background |
| ENSG00000099399.5 | 2.04825813 | background | background | background | background |
| ENSG00000099812.8 | 1.47095641 | background | background | background | background |
| ENSG00000099866.14 | 2.137613554 | NA | background | background | background |
| ENSG00000099885.3 | 3.416366717 | background | background | background | background |
| ENSG00000100033.16 | 2.989600295 | background | background | background | background |
| ENSG00000100097.11 | 1.426605653 | background | background | background | background |
| ENSG00000100100.12 | 2.52837491 | background | background | background | background |
| ENSG00000100197.20 | 2.089832022 | background | background | background | background |
| ENSG00000100206.9 | -1.977164877 | background | background | background | background |
| ENSG00000100253.12 | 1.01099386 | background | background | background | background |
| ENSG00000100276.9 | 2.039403548 | background | background | background | background |
| ENSG00000100290.2 | 1.613106675 | background | background | background | background |
| ENSG00000100298.15 | 1.310434923 | background | background | background | background |
| ENSG00000100314.3 | 1.029027087 | background | background | background | background |
| ENSG00000100342.20 | -1.907217698 | background | background | background | background |
| ENSG00000100399.15 | 1.640423139 | background | background | background | background |
| ENSG00000100593.17 | -1.280024095 | background | background | background | background |
| ENSG00000100628.11 | 1.623571092 | background | background | background | background |
| ENSG00000100784.10 | -1.641689192 | background | background | background | background |
| ENSG00000100949.14 | 1.30502653 | background | background | background | background |
| ENSG00000100985.7 | 2.670362594 | background | background | background | background |
| ENSG00000101000.5 | 1.869014218 | NA | background | background | background |
| ENSG00000101049.14 | 1.070924877 | background | background | background | background |
| Accession | Value         | Backdrop | Backdrop | Backdrop | Backdrop |
|-----------|---------------|----------|----------|----------|----------|
| 114       | -1.030377953  | background| background| background| background| 5 |
| 114       | 3.163542578   | background| background| background| background| 5 |
| 114       | 4.047138481   | background| background| background| background| 5 |
| 114       | 1.432822089   | background| background| background| background| 5 |
| 114       | 1.256306907   | background| background| background| background| 5 |
| 114       | 1.183765324   | background| background| background| background| 5 |
| 114       | 2.721074815   | background| background| background| background| 5 |
| 114       | 6.903915219   | background| background| background| background| 5 |
| 114       | 1.137819077   | background| background| background| background| 5 |
| 114       | 1.938693594   | background| background| background| background| 5 |
| 114       | 1.414606799   | background| background| background| background| 5 |
| 114       | 1.006745284   | background| background| background| background| 5 |
| 114       | 1.458865337   | background| background| background| background| 5 |
| 114       | 1.796301626   | 5 background| background| background| background| 5 |
| 114       | 1.123758846   | background| background| background| background| 5 |
| 114       | -0.66649887   | background| background| background| background| 5 |
| 114       | 1.066871111   | background| background| background| background| 5 |
| 114       | -0.107247253  | background| background| background| background| 5 |
| 114       | 2.584219335   | background| background| background| background| 5 |
| 114       | 1.139776745   | background| background| background| background| 5 |
| 114       | -1.163617032  | background| background| background| background| 5 |
| 114       | 1.117303929   | background| background| background| background| 5 |
| 114       | 1.286243803   | background| background| background| background| 5 |
| 114       | 1.641799671   | background| background| NA        | background| 5 |
| 114       | 1.038290447   | background| background| background| background| 5 |
| 114       | 2.765499289   | background| background| background| background| 5 |
| 114       | 1.480145189   | background| background| background| background| 5 |
| 114       | 1.335996016   | background| background| background| background| 5 |
| 114       | 2.746676147   | background| background| background| background| 5 |
| 114       | -1.157605564  | 5 background| background| background| background| 5 |
| 114       | 2.234745205   | background| background| background| background| 5 |
| 114       | 2.30843914    | background| background| background| background| 5 |
| 114       | 1.490339939   | background| background| background| background| 5 |
| 114       | -1.383803912  | background| background| background| background| 5 |
| 114       | 1.591971545   | background| background| background| background| 5 |
| 114       | 1.964426359   | background| background| background| background| 5 |
| 114       | 1.135779873   | background| background| background| background| 5 |
| 114       | -1.209753936  | background| background| background| background| 5 |
| 114       | 1.317881495   | background| background| background| background| 5 |
| 114       | -1.059479394  | background| background| background| background| 5 |
| 114       | 2.639253984   | background| background| background| background| 5 |
| Accession     | Value           | Column1 | Column2 | Column3 | Column4 |
|--------------|-----------------|---------|---------|---------|---------|
| ENSG00000104826.12 | 1.362649345    | NA      | NA      | background | background |
| ENSG00000104856.13  | 1.102220462    | background | background | background | background |
| ENSG00000104903.4   | 1.126857359    | background | background | background | background |
| ENSG00000104951.15  | 1.643245255    | background | background | background | background |
| ENSG00000105048.16  | 2.36183886     | background | background | background | background |
| ENSG00000105088.8   | 1.99687018     | background | background | background | background |
| ENSG00000105122.12  | 4.025414747    | background | background | background | background |
| ENSG00000105146.12  | 1.961011884    | background | background | background | background |
| ENSG00000105227.14  | 1.56110823     | background | background | background | background |
| ENSG00000105246.5   | 1.564473095    | background | background | background | background |
| ENSG00000105251.10  | 2.314341768    | background | background | background | background |
| ENSG00000105371.8   | 1.566471299    | background | background | background | background |
| ENSG00000105464.3   | 1.916580129    | background | background | background | background |
| ENSG00000105499.13  | 1.074562281    | background | background | NA      | background |
| ENSG00000105501.12  | 4.526840875    | background | background | background | background |
| ENSG00000105550.8   | 4.610343526    | background | background | background | background |
| ENSG00000105641.3   | 2.472954339    | background | background | background | background |
| ENSG00000105664.3   | 3.949388196    | NA      | background | background | background |
| ENSG00000105664.15  | 3.494388196    | background | background | background | background |
| ENSG00000105650.21  | 3.260495182    | background | background | background | background |
| ENSG00000105668.7   | -1.31692393    | NA      | NA      | background | background |
| ENSG00000105675.8   | 1.975947287    | background | background | background | background |
| ENSG00000105695.14  | 1.554794447    | background | background | background | background |
| ENSG00000105697.7   | -1.51071334    | NA      | background | background | background |
| ENSG00000105825.11  | 1.303229406    | NA      | background | background | background |
| ENSG00000105866.13  | -1.174124546   | 4       | background | background | background |
| ENSG00000105880.4   | 1.372974868    | background | background | background | background |
| ENSG00000105967.15  | 6.778864376    | background | background | background | background |
| ENSG00000106211.8   | 2.010562861    | background | background | background | background |
| ENSG00000106258.13  | 1.160380639    | background | background | background | background |
| ENSG00000106484.14  | -1.221246241   | background | background | background | background |
| ENSG00000106686.16  | 1.314578163    | background | background | background | background |
| ENSG00000106733.20  | 1.012248697    | background | background | background | background |
| ENSG00000106853.18  | 1.196957769    | background | background | background | background |
| ENSG00000106991.13  | 2.191078137    | background | background | background | background |
| ENSG00000106992.17  | 1.369782204    | background | background | background | background |
| ENSG00000107147.12  | 1.92627236     | background | background | background | background |
| ENSG00000107159.12  | -2.467914306   | background | background | background | background |
| ENSG00000107165.12  | 3.902384433    | background | background | background | background |
| ENSG00000107731.12  | 1.259932548    | background | background | background | background |
| Gene          | Value     | Quality 1 | Quality 2 | Quality 3 | Quality 4 |
|---------------|-----------|-----------|-----------|-----------|-----------|
| ENSG0000010801 | 2.865882001 | background | background | background | 5         |
| ENSG0000010824 | 1.011052454 | background | background | background | 5         |
| ENSG0000010834 | 1.797143219 | background | background | background | 5         |
| ENSG0000010841 | 1.676607719 | background | NA        | background | 5         |
| ENSG0000010860 | 4.297854927 | background | background | background | 5         |
| ENSG0000010878 | 1.215670963 | background | background | background | 5         |
| ENSG0000010885 | 4.368915822 | background | background | background | 5         |
| ENSG0000010894 | 1.198771265 | background | background | background | 5         |
| ENSG0000010906 | 1.149128503 | background | background | background | 4         |
| ENSG0000010918 | 1.357029393 | background | background | background | 5         |
| ENSG0000010933 | 1.357029393 | background | background | background | 5         |
| ENSG0000010942 | -1.97506005 | background | background | background | 5         |
| ENSG0000011003 | 1.055857139 | background | background | background | 5         |
| ENSG0000011065 | 3.049462881 | background | background | background | 5         |
| ENSG0000011078 | -1.059645952 | background | background | background | 4         |
| ENSG0000011088 | 1.296083879 | background | background | background | 5         |
| ENSG0000011090 | 2.102016397 | background | background | background | 5         |
| ENSG0000011100 | 1.277473224 | background | background | background | 5         |
| ENSG0000011107 | 3.060493975 | background | background | background | 5         |
| ENSG0000011109 | 5.085425642 | background | background | background | 5         |
| ENSG0000011110 | 2.374817772 | background | background | background | 5         |
| ENSG0000011112 | -1.032279824 | background | background | background | 5         |
| ENSG0000011118 | 2.762798121 | background | background | background | 5         |
| ENSG0000011124 | 5.120275257 | background | background | background | 5         |
| ENSG0000011128 | 2.847461324 | background | background | background | 5         |
| ENSG0000011130 | 1.534329123 | background | background | background | 5         |
| ENSG0000011131 | -1.071737801 | background | background | background | 5         |
| ENSG0000011135 | 2.577181948 | background | background | background | 5         |
| ENSG0000011134 | 3.59906133 | background | background | background | 5         |
| ENSG0000011134 | 3.59906133 | background | background | background | 5         |
| ENSG0000011142 | 2.26860144 | background | background | background | 3         |
| ENSG0000011149 | 1.386453439 | background | background | NA        | 5         |
| ENSG0000011151 | -1.024982944 | background | background | background | 5         |
| ENSG0000011167 | 1.115642238 | background | background | background | 5         |
| ENSG0000011167 | 1.027989784 | background | background | background | 5         |
| ENSG0000011170 | 1.998231655 | background | background | background | 5         |
| ENSG0000011181 | -1.459657681 | background | background | background | 5         |
| Accession | ENSG00000111837.11 | -1.281025137 | background | background | background | 5 |
| Accession | ENSG00000111859.16 | -1.014080795 | NA | background | background | 5 |
| Accession | ENSG00000111860.13 | 1.635835791 | background | background | 4 |
| Accession | ENSG00000111913.17 | 3.858348913 | background | background | 4 |
| Accession | ENSG00000112139.14 | 2.402028205 | background | background | background |
| Accession | ENSG00000112212.11 | 2.665175414 | background | background | background |
| Accession | ENSG00000112280.15 | 4.587219284 | background | background | background | 5 |
| Accession | ENSG00000112337.10 | 1.450634253 | background | background | 4 |
| Accession | ENSG00000112343.10 | 1.180373046 | background | background | 5 |
| Accession | ENSG00000112414.14 | -1.263977803 | background | background | 5 |
| Accession | ENSG00000112494.9 | -1.208503498 | background | background | 5 |
| Accession | ENSG00000112559.13 | 2.436897791 | background | background | background |
| Accession | ENSG00000112742.9 | -1.227049051 | background | background | background |
| Accession | ENSG00000112818.9 | 2.626936652 | background | background | 5 |
| Accession | ENSG00000113083.13 | -2.51877389 | background | background | background |
| Accession | ENSG00000113249.12 | -1.496939126 | background | background | 4 |
| Accession | ENSG00000113368.11 | -1.203926212 | background | background | background | 5 |
| Accession | ENSG00000113555.5 | 1.579716465 | background | background | background |
| Accession | ENSG00000114268.11 | -1.006147231 | background | background | 5 |
| Accession | ENSG00000114626.17 | 1.037906053 | background | background | background |
| Accession | ENSG00000114698.14 | 1.116735966 | background | background | 5 |
| Accession | ENSG00000114739.13 | -1.06420567 | background | background | 4 |
| Accession | ENSG00000114796.15 | 1.015256937 | background | background | background |
| Accession | ENSG00000114841.17 | 1.367693176 | 5 | background | background | 5 |
| Accession | ENSG00000114923.16 | 1.781646753 | background | background | background |
| Accession | ENSG00000114948.12 | 3.050650555 | background | background | 4 |
| Accession | ENSG00000115085.13 | 3.792388092 | 5 | background | 5 |
| Accession | ENSG00000115112.7 | 2.129485497 | background | background | background |
| Accession | ENSG00000115129.13 | 1.873117297 | background | background | background |
| Accession | ENSG00000115295.19 | 3.520404831 | background | background | background | 5 |
| Accession | ENSG00000115339.13 | -2.209083638 | background | background | background |
| Accession | ENSG00000115457.9 | 1.05962917 | background | background | background |
| Accession | ENSG00000115548.16 | -1.207182724 | background | background | background | 4 |
| Accession | ENSG00000115596.3 | 2.478877766 | background | background | background | 5 |
| Accession | ENSG00000115687.13 | -1.080524301 | background | background | background | 5 |
| Accession | ENSG00000115841.19 | 1.008215598 | background | background | background | 5 |
| Accession | ENSG00000116039.11 | 1.364132066 | background | background | background | 5 |
| Accession | ENSG00000116062.14 | -1.190055152 | background | background | background | 5 |
| Accession | ENSG00000116176.6 | 2.81463466 | background | background | background |
| Accession | ENSG00000116254.17 | 3.758661258 | background | background | background | 4 |
| Accession | ENSG00000116299.16 | 3.149822764 | background | background | background | 5 |
| ENSG00000116701.14 | 1.486947592 | background | background | background | background |
|--------------------|-------------|-------------|-------------|------------|------------|
| ENSG00000116833.13 | 1.815534325 | background | background | background | 5          |
| ENSG00000116852.14 | 2.277501648 | background | background | background | 5          |
| ENSG00000116962.14 | -1.071896498 | background | background | background | 5          |
| ENSG00000117115.12 | 2.50509015  | background | background | background | 4          |
| ENSG00000117122.13 | 1.236370163 | background | background | background | background |
| ENSG00000117266.15 | 1.270742485 | background | background | background | 5          |
| ENSG00000117461.14 | 1.325402995 | background | background | background | 5          |
| ENSG00000117472.9  | 1.607737298 | background | background | background | background |
| ENSG00000117586.10 | 1.91672653  | background | background | background | 5          |
| ENSG00000117632.22 | -1.054405587 | background | background | background | 5          |
| ENSG00000117724.12 | -1.31113164 | background | background | background | 5          |
| ENSG00000117983.17 | 2.081197912 | background | background | background | background |
| ENSG00000118004.17 | 1.055100587 | NA          | background | background | 5          |
| ENSG00000118094.11 | 3.185755861 | background | background | background | background |
| ENSG00000118193.11 | -1.123540446 | background | background | background | 4          |
| ENSG00000118257.16 | 1.55979682  | background | background | background | 5          |
| ENSG00000118298.10 | 1.197815201 | background | background | background | background |
| ENSG00000118520.14 | -1.19059315 | background | background | background | background |
| ENSG00000118785.13 | 1.41663857  | background | background | background | background |
| ENSG00000118898.15 | 1.316780168 | background | background | background | 5          |
| ENSG00000118971.7  | 1.576202871 | background | background | background | 5          |
| ENSG00000119121.21 | -1.969985081 | background | background | background | 5          |
| ENSG00000119283.15 | 1.25403703  | background | background | background | 5          |
| ENSG00000119508.17 | 1.474074206 | background | background | background | background |
| ENSG00000119630.13 | 1.629809846 | background | background | background | 5          |
| ENSG00000119632.3  | 1.441777011 | NA          | background | background | background |
| ENSG00000119681.11 | 1.163629677 | background | background | background | background |
| ENSG00000119699.7  | 1.35090743  | background | background | background | 5          |
| ENSG00000119715.14 | 1.530790849 | background | background | background | 5          |
| ENSG00000119801.12 | 1.187213436 | NA          | background | background | background |
| ENSG00000119913.4  | 1.505195753 | background | background | background | 5          |
| ENSG00000120278.15 | 2.26129858  | background | background | background | 5          |
| ENSG00000120539.14 | -1.00273657 | background | background | background | background |
| ENSG00000120693.13 | -1.126471093 | background | background | background | 4          |
| ENSG00000120738.7  | 1.588586938 | NA          | background | background | background |
| ENSG00000120833.13 | 3.261430424 | background | background | background | background |
| ENSG00000121270.15 | 1.452821645 | 5           | background | background | 5          |
| ENSG00000121552.3  | 1.495632052 | NA          | background | background | background |
| ENSG00000121621.6  | -1.047952514 | background | background | background | 5          |
| ENSG00000122122.9  | 3.68962823  | background | background | background | 5          |
| ENSG00000122133.16 | 1.245417285 | background | background | background | background |
|-------------------|--------------|------------|------------|------------|------------|
| ENSG00000122574.10 | 3.149674257 | background | background | background | background |
| ENSG00000122711.8  | 1.625157696 | background | background | background | background |
| ENSG00000122877.15 | 2.272714387 | NA         | background | background | background |
| ENSG00000122966.15 | -1.169925131 | background | background | background | background |
| ENSG00000123159.15 | 1.122108825 | background | background | background | background |
| ENSG00000123240.16 | 1.042617236 | background | background | background | background |
| ENSG00000123329.17 | 1.67713442  | background | background | background | background |
| ENSG00000123342.15 | 3.394992963 | background | background | background | background |
| ENSG00000123500.9  | 2.335705081 | background | background | background | background |
| ENSG00000123572.16 | 2.776463576 | background | background | background | background |
| ENSG00000123933.16 | 1.485105243 | background | background | background | background |
| ENSG00000123999.4  | -1.111360653 | NA         | background | background | background |
| ENSG00000124143.10 | 1.997676762 | background | background | background | background |
| ENSG00000124215.16 | -3.168506338 | background | background | background | background |
| ENSG00000124343.12 | 2.75706080  | NA         | background | background | background |
| ENSG00000124496.12 | 2.634957692 | background | background | background | background |
| ENSG00000124574.14 | 1.034210716 | background | background | background | background |
| ENSG00000124602.9  | 1.252370793 | background | background | background | background |
| ENSG00000124635.8  | 2.806473951 | NA         | NA         | background | background |
| ENSG00000124762.13 | 1.476438813 | NA         | background | background | background |
| ENSG00000124766.6  | 1.369235917 | NA         | background | background | background |
| ENSG00000124772.11 | 3.867240303 | 5          | background | background | background |
| ENSG00000124839.12 | 1.741511653 | 4          | background | background | background |
| ENSG00000125144.13 | 1.196826655 | background | background | background | background |
| ENSG00000125434.10 | 1.078499052 | NA         | background | background | background |
| ENSG00000125648.14 | -1.258587519 | background | background | background | background |
| ENSG00000125657.4  | 1.267457643 | background | background | background | background |
| ENSG00000125740.13 | 1.031209563 | 5          | background | background | background |
| ENSG00000125775.14 | 1.802920855 | background | background | background | background |
| ENSG00000125910.5  | 3.247839342 | NA         | background | background | background |
| ENSG00000126259.19 | -1.35559447 | background | background | background | background |
| ENSG00000126264.9  | 2.197336566 | NA         | background | background | background |
| ENSG00000126353.3  | 1.449398483 | background | background | background | background |
| ENSG00000126460.10 | 1.600461435 | background | background | background | background |
| ENSG00000126709.14 | 1.557656659 | NA         | background | background | background |
| ENSG00000126787.12 | -1.281490598 | background | background | background | background |
| ENSG00000126882.12 | 1.217495717 | NA         | background | background | background |
| ENSG00000127124.14 | 2.640666696 | 5          | background | background | background |
| ENSG00000127241.16 | 1.05548536  | background | background | background | background |
| Gene ID | Log Fold Change | Background | Background | Background | P-value |
|---------|----------------|------------|------------|------------|---------|
| ENSG00000127329.15 | 3.043075109 | background | background | background | 5       |
| ENSG00000127528.5 | 1.861106335 | background | background | background | 5       |
| ENSG00000127561.14 | 1.133424645 | background | background | background | 5       |
| ENSG00000127824.13 | 1.687349786 | background | background | background | 5       |
| ENSG00000127955.15 | 1.538375712 | background | background | background | 5       |
| ENSG00000128011.4 | -1.727728407 | NA | NA | background | 5       |
| ENSG00000128045.6 | 3.279666274 | background | background | background | 5       |
| ENSG00000128165.8 | 2.022631599 | background | background | background | 5       |
| ENSG00000128242.12 | 1.501297449 | NA | background | background | 4       |
| ENSG00000128268.11 | 2.107452317 | NA | background | background | 4       |
| ENSG00000128310.14 | 3.631036035 | background | background | background | 5       |
| ENSG00000128346.10 | 1.956571903 | background | background | background | 5       |
| ENSG00000128356.17 | 1.241365789 | background | background | background | 5       |
| ENSG00000128609.14 | -1.30589001 | NA | background | background | 5       |
| ENSG00000128965.11 | 2.53012633 | NA | background | background | 5       |
| ENSG00000129038.15 | 1.322928205 | background | background | background | 5       |
| ENSG00000129048.6 | 2.215130522 | NA | background | background | 4       |
| ENSG00000129116.17 | 1.188059445 | background | background | background | 4       |
| ENSG00000129214.14 | 2.186404607 | background | background | background | 4       |
| ENSG00000129654.7 | 1.536655628 | background | background | background | 4       |
| ENSG00000129749.3 | 1.537603192 | background | background | background | 4       |
| ENSG00000129988.5 | 3.582685135 | background | background | background | 4       |
| ENSG00000129991.12 | 1.024182114 | background | background | background | 4       |
| ENSG00000130021.13 | -1.953700689 | background | background | background | 4       |
| ENSG00000130032.15 | 1.322059587 | background | background | background | 4       |
| ENSG00000130222.10 | 3.259315584 | background | background | background | 4       |
| ENSG00000130307.11 | 1.384754022 | background | background | background | 4       |
| ENSG00000130477.15 | 2.703495743 | background | NA | background | 4       |
| ENSG00000130513.6 | 1.575851524 | NA | background | background | 5       |
| ENSG00000130561.16 | 2.00663174 | background | background | background | 5       |
| ENSG00000130643.8 | 1.80342335 | background | background | background | 5       |
| ENSG00000130701.3 | 1.594459374 | background | background | background | 5       |
| ENSG00000130720.12 | 1.710352932 | background | background | background | 5       |
| ENSG00000130766.4 | 1.139834916 | background | background | background | 5       |
| ENSG00000130783.13 | 1.235420239 | background | background | background | 5       |
| ENSG00000130821.15 | -1.344332193 | background | background | background | 5       |
| ENSG00000130822.15 | -1.069688573 | background | background | background | 5       |
| ENSG00000130856.15 | 1.238359515 | background | background | background | 5       |
| ENSG00000130948.9 | 2.733744954 | background | background | background | 5       |
|Gene Name| Value 1| Value 2| Value 3| Value 4| Value 5|
|---------|-------|-------|-------|-------|-------|
|ENSG00000130997.16| 1.144672051| background| NA| background| 5|
|ENSG00000131018.22| 1.296079191| background| background| background| 4|
|ENSG00000131061.13| 1.615879756| background| background| background| 5|
|ENSG00000131152.4| -1.007822541| background| background| background| 5|
|ENSG00000131153.8| 2.061443404| background| background| background| 4|
|ENSG000001311746.12| 1.577524467| background| background| background| 5|
|ENSG000001311747.14| -1.11926292| background| background| background| 5|
|ENSG00000131190.4| 1.527163297| NA| background| background| background|
|ENSG00000131969.14| -2.17631889| background| background| background| background|
|ENSG00000132000.11| 1.544694737| background| background| background| 5|
|ENSG00000132274.15| 1.675038689| background| background| background| background|
|ENSG00000132297.11| 2.495892635| 5| background| background| 5|
|ENSG00000132437.17| -1.144126916| background| background| background| 5|
|ENSG00000132517.14| 2.552407309| background| background| background| background|
|ENSG00000132563.15| 2.10983886| background| background| background| background|
|ENSG00000132639.12| 1.34460099| background| background| background| 5|
|ENSG00000132692.18| 1.330661188| background| background| background| background|
|ENSG00000132718.8| 1.272568449| background| background| background| 5|
|ENSG00000132744.7| -1.13032041| background| background| background| 5|
|ENSG00000132780.16| -1.115589724| background| background| background| background|
|ENSG00000132793.11| 1.085261078| background| background| background| background|
|ENSG00000132821.11| 2.735931088| background| background| background| 4|
|ENSG00000132840.9| 1.16503767| background| background| background| background|
|ENSG00000132854.18| -1.477628742| background| background| background| 5|
|ENSG00000133067.17| 3.356240977| background| background| background| 4|
|ENSG00000133256.12| 1.322879736| background| background| background| 4|
|ENSG00000133302.12| -1.154439969| background| background| background| 4|
|ENSG00000133401.15| 1.884090588| background| background| background| 5|
|ENSG00000133433.10| 1.451993595| background| background| background| 5|
|ENSG00000133454.15| 1.773684623| 5| background| background| 5|
|ENSG00000133488.14| 2.525145561| background| background| background| 4|
|ENSG00000133636.10| 1.23301686| background| background| background| 4|
|ENSG00000133739.15| -1.171059812| background| background| background| 5|
|ENSG00000133740.10| -1.025658212| background| background| background| 5|
|ENSG00000133794.17| 1.019008228| background| background| background| 5|
|ENSG00000133808.8| 2.608071045| background| background| background| 5|
|ENSG00000133812.15| 2.215783444| background| background| background| 5|
|ENSG00000133985.2| 1.533124467| NA| background| background| 5|
|ENSG00000134184.12| 3.288404449| background| background| background| 5|
| Gene          | Value1 | Value2 | Value3 | Value4 | Value5 |
|--------------|--------|--------|--------|--------|--------|
| ENSG00000134242.15 | 4.584845709 | background | background | background | 5     |
| ENSG00000134250.19  | -1.150574037 | background | background | background | 5     |
| ENSG00000134339.8   | 1.819576322 | background | background | background | 4     |
| ENSG00000134363.11  | 1.887597504 | NA         | background | background | background |
| ENSG00000134369.15  | 1.224456233 | background | background | background | 4     |
| ENSG00000134398.14  | 1.865837482 | background | background | background | 5     |
| ENSG00000134571.10  | 2.745206245 | background | background | background | background |
| ENSG00000134762.16  | 2.360269444 | background | background | background | 5     |
| ENSG00000134824.13  | -1.277694242 | background | background | background | 5     |
| ENSG00000134830.5   | 3.426200055 | NA         | background | background | background |
| ENSG00000134852.14  | -1.579792393 | background | background | background | 5     |
| ENSG00000134871.17  | 2.866849333 | background | background | background | 5     |
| ENSG00000134940.13  | -1.026298741 | NA         | background | background | 5     |
| ENSG00000134954.14  | 1.570251419 | background | background | background | 5     |
| ENSG00000134987.11  | -1.240374686 | background | background | background | background |
| ENSG00000135253.13  | 1.346630992 | background | background | background | background |
| ENSG00000135318.11  | 1.184489989 | background | background | background | 5     |
| ENSG00000135373.12  | 1.363977757 | background | background | background | background |
| ENSG00000135439.11  | 2.763183123 | background | background | background | background |
| ENSG00000135480.15  | 1.869275554 | background | background | background | 5     |
| ENSG00000135517.6   | 2.094626322 | NA         | background | background | background |
| ENSG00000135625.7   | 2.082163258 | NA         | background | background | background |
| ENSG00000135643.4   | 1.742232822 | background | background | background | background |
| ENSG00000135709.12  | 1.648521272 | background | background | background | 4     |
| ENSG00000135749.18  | 1.646563043 | background | background | background | 4     |
| ENSG00000135919.12  | 1.311094316 | background | background | background | 5     |
| ENSG00000135925.8   | 2.705422066 | background | background | background | background |
| ENSG00000136235.15  | 1.523573399 | background | background | background | background |
| ENSG00000136305.11  | 1.256048009 | background | background | background | background |
| ENSG00000136378.14  | 3.708227372 | background | background | background | 5     |
| ENSG00000136383.6   | 1.936811866 | background | background | background | 5     |
| ENSG00000136492.8   | -1.386091055 | background | background | background | 5     |
| ENSG00000136573.12  | 1.507829696 | background | background | background | 5     |
| ENSG00000136731.12  | 1.176111695 | 5          | background | background | 5     |
| ENSG00000136842.13  | 2.049224585 | background | background | background | 5     |
| ENSG00000136881.11  | 3.266803382 | background | background | background | 5     |
| ENSG00000136918.7   | 2.924644945 | background | background | background | background |
| ENSG00000136928.6   | 3.775509944 | background | background | background | 5     |
| ENSG00000136944.17  | 1.572371513 | background | background | NA        | 5     |
| ENSG00000137078.8   | -1.293523581 | background | background | background | background |
| ENSG00000137193.13  | -1.102194145 | background | background | background | background |
| ENSG00000137225.12 | 2.253200624 | background | background | background | 5 |
|-------------------|-------------|------------|------------|------------|---|
| ENSG00000137251.15 | 1.580953072 | background | background | background | 4 |
| ENSG00000137270.10 | 1.911051999 | background | background | background | 5 |
| ENSG00000137460.8  | 2.033547042 | background | background | background | 5 |
| ENSG00000137474.19 | 1.136373537 | background | background | background | 4 |
| ENSG00000137501.17 | 1.405352429 | background | background | background | 5 |
| ENSG00000137628.16 | -2.526283244 | background | background | background | 5 |
| ENSG00000137648.17 | 2.286430298 | background | background | background | 5 |
| ENSG00000137699.16 | 2.381976802 | background | background | background | 5 |
| ENSG00000137731.13 | 2.049877888 | background | background | background | 5 |
| ENSG00000137810.13 | -1.03337168 | NA         | background | background | 5 |
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| ENSG00000140254.12 | 2.599397739 | background | ENSG00000140465.13 | 1.823170409 | background |
| ENSG00000140297.12 | 1.115438751 | background | ENSG00000140488.15 | 2.109690553 | background |
| ENSG00000140323.5 | 1.207855145 | background | ENSG00000140534.13 | -1.288538945 | background |
| ENSG00000140368.12 | 1.202822722 | background | ENSG00000140538.16 | 2.105239534 | background |
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| ENSG00000140403.12 | -1.729058624 | background | ENSG00000140784.12 | -1.035608552 | background |
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| ENSG00000140488.15 | 2.109690553 | background | ENSG00000140947.13 | 1.245081186 | background |
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| ENSG00000141384.12 | -1.035608552 | background | ENSG00000141934.9 | 2.917572586 | background |
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| ENSG00000142590.15 | 3.070814516 | background | ENSG00000142760.15 | 1.815414869 | background |
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| ENSG00000142765.17 | 1.651356606 | background | ENSG00000142765.17 | 1.651356606 | background |
| ENSG00000142798.17 | 1.036259664 | background | ENSG00000142798.17 | 1.036259664 | background |
| ENSG00000142945.12 | -1.04999358 | background | ENSG00000142945.12 | -1.04999358 | background |
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| ENSG00000143061.17 | 1.63896908 | background | ENSG00000143061.17 | 1.63896908 | background |
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| ENSG00000143217.8 | 1.969294118 | background | ENSG00000143217.8 | 1.969294118 | background |
| ENSG00000143228.12 | -1.06518791 | background | ENSG00000143228.12 | -1.06518791 | background |
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| Gene ID     | ENSG00000143401.14 | -1.043833912 | background | background | background | background |
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| ENSG00000148204.11 | 2.7623404   | background | NA              | background | 4     |
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| ENSG00000152154.10 | 1.104363713 | NA         | background      | background | 5     |
| ENSG00000152213.3 | 1.08746902  | NA         | background      | background | 5     |
| ENSG00000152229.18 | 1.039804772 | background | background      | background | 4     |
| ENSG00000152256.13 | -1.147359666 | background | background      | background | 5     |
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| ENSG00000153029.14 | 2.44957853 | NA         | background      | background | 4     |
| ENSG00000153157.12 | 1.854042013 | background | background      | background | 4     |
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| 114| ENSG00000154025.15 | 1.732612052 | background   | background   | background   | 4     |
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| 114| ENSG00000154146.12 | -1.407278576 | background   | background   | background   | background |
| 114| ENSG00000154358.20 | 1.33712864  | NA           | NA           | background   | 5     |
| 114| ENSG00000154451.14 | 1.904951179 | background   | background   | background   | 5     |
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| 114| ENSG00000155428.12 | 3.303370244 | NA           | background   | background   | 5     |
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| 114| ENSG00000156049.6  | 3.171204767 | background   | background   | background   | 3     |
| 114| ENSG00000156096.13 | 1.918642635 | background   | background   | background   | 5     |
| 114| ENSG00000156113.22 | 2.774432969 | background   | background   | background   | 4     |
| 114| ENSG00000156127.6  | 2.247328143 | NA           | background   | background   | 5     |
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| 114| ENSG00000156413.13 | 1.175399825 | NA           | background   | background   | background |
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| 114| ENSG00000156574.9  | 2.82149774  | NA           | background   | background   | 5     |
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| 114| ENSG00000156802.12 | -1.142395538 | background   | background   | background   | 5     |
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| 114| ENSG00000156970.12 | -1.647655492 | background   | background   | background   | 5     |
| 114| ENSG00000157227.12 | 1.557728505 | background   | background   | background   | background |
| 114| ENSG00000157388.15 | 1.454499556 | background   | background   | background   | 4     |
| 114| ENSG00000157514.16 | 1.470439897 | background   | background   | background   | 5     |
| 114| ENSG00000157657.14 | -1.201366926 | background   | background   | background   | 4     |
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| ENSG00000158828.7 | 1.226954743 | background | background | background | background |
| ENSG00000158955.10| 1.994323469 | background | background | background | 5 |
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| ENSG00000161243.8 | -1.099230045| background | background | background | background |
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| Gene ID   | Description | Log2 Fold Change | FDR   | Status | Gene ID   | Description | Log2 Fold Change | FDR   | Status |
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| ENSG00000173846.12 | -1.32263549 | background | background | background | ENSG00000173947.13 | 1.152400987 | background | background | background |
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| Gene ID     | Value       | Annotation | Feature | Score  | Confidence | Depth | Background |
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| Gene ID     | ENSG00000180929.5  | 2.122187721 | NA         | background | background | background |
| Gene ID     | ENSG00000181074.4  | 4.096351033 | NA         | background | background | background |
| Gene ID     | ENSG00000181092.9  | 2.085588202 | NA         | background | background | background |
| Gene ID     | ENSG00000181143.15 | -3.426959705 | background | background | background | 5 |
| Gene ID     | ENSG00000181240.13 | -1.01799252 | background | background | background | 5 |
| Gene ID     | ENSG00000181444.12 | 2.79562516  | background | background | background | background |
| Gene ID     | ENSG00000181577.15 | 2.11134443  | background | background | background | background |
| Gene ID     | ENSG00000181649.5  | 1.062189846 | NA         | background | background | background |
| Gene ID     | ENSG00000181652.19 | 1.52376118  | background | NA         | background | background |
| Gene ID     | ENSG00000181790.10 | 3.631338114 | background | background | background | background |
| Gene ID     | ENSG00000181894.14 | 1.09488558  | NA         | background | background | background |
| Gene ID     | ENSG00000182022.17 | -1.001536856 | background | background | background | 5 |
| Gene ID     | ENSG00000182118.7  | 1.111168864 | NA         | background | background | background |
| Gene ID     | ENSG00000182175.13 | 2.074115223 | background | background | background | 5 |
| Gene ID     | ENSG00000182230.11 | 1.246114533 | background | background | background | 5 |
| Gene ID     | ENSG00000182247.9  | 1.348284149 | background | background | background | 5 |
| Gene ID     | ENSG00000182308.6  | 1.802405475 | NA         | background | background | background |
| Gene ID     | ENSG00000182310.13 | 1.133583084 | background | background | background | background |
| Gene ID     | ENSG00000182326.14 | 2.666476038 | NA         | background | background | background |
| Gene ID     | ENSG00000182459.4  | 4.845079393 | NA         | background | background | background |
| Gene ID     | ENSG00000182492.15 | 2.291176256 | background | background | background | background |
| Gene ID     | ENSG00000182687.3  | 1.011713378 | NA         | background | background | background |
| Gene ID     | ENSG00000182752.9  | 3.449887154 | background | background | background | 5 |
| Gene ID     | ENSG00000182771.18 | 4.61245526  | background | background | background | 4 |
| Gene ID     | ENSG00000182870.8  | 3.879391915 | background | NA         | background | 5 |
| Gene ID     | ENSG00000182950.2  | 1.500509703 | NA         | background | background | background |
| Gene ID     | ENSG00000183019.7  | 4.855574668 | NA         | background | background | background |
| Gene ID     | ENSG00000183072.9  | 1.317966937 | NA         | background | background | background |
| Gene ID     | ENSG00000183087.14 | 2.404105462 | background | background | background | 5 |
| Gene ID     | ENSG00000183092.16 | 3.662500223 | background | background | background | 5 |
| Gene ID     | ENSG00000183150.7  | -1.236078786 | background | background | background | 5 |
| Gene ID     | ENSG00000183153.6  | 1.293957011 | NA         | NA         | background | 5 |
| Gene ID     | ENSG00000183260.7  | 23.6793249  | NA         | background | background | background |
| ENSG00000183508.4 | 2.567272046 | NA | background | background | 5 |
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| ENSG00000183560.9 | 6.463716515 | background | background | NA | background |
| ENSG00000183615.5 | 1.433066587 | NA | background | background | background |
| ENSG00000183688.4 | -1.0086445 | NA | background | background | background |
| ENSG00000183734.4 | 2.013949615 | background | background | background | background |
| ENSG00000183747.11 | 2.28654575 | background | background | 5 |
| ENSG00000183784.6 | 1.30437115 | NA | background | background | 5 |
| ENSG00000183785.14 | 1.018495168 | background | background | background | 5 |
| ENSG00000183813.6 | 1.37308309 | NA | background | background | background |
| ENSG00000183826.16 | 1.97579257 | background | background | background | 5 |
| ENSG00000183971.6 | 1.06373715 | NA | background | NA | 4 |
| ENSG00000183977.13 | -2.115616742 | background | background | NA | 5 |
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| ENSG00000184254.16 | 4.38126047 | background | background | background | 5 |
| ENSG00000184371.13 | 1.08586726 | background | background | background | background |
| ENSG00000184445.11 | -1.10862499 | background | background | background | 5 |
| ENSG00000184451.5 | 1.25265915 | background | background | background | 5 |
| ENSG00000184497.12 | 2.22276544 | background | background | background | 5 |
| ENSG00000184545.10 | 1.12399363 | background | background | background | background |
| ENSG00000184574.9 | 2.178047649 | background | background | background | 5 |
| ENSG00000184613.10 | 3.431956051 | background | background | background | 4 |
| ENSG00000184678.10 | 2.71380634 | NA | background | background | background |
| ENSG00000184730.10 | 1.372651412 | background | background | background | background |
| ENSG00000184916.8 | 2.52161448 | background | background | background | 5 |
| ENSG00000184922.13 | 1.36498221 | background | background | background | 5 |
| ENSG00000184984.9 | 1.02252316 | background | background | background | 5 |
| ENSG00000184985.16 | 8.943175251 | 5 | background | background | 3 |
| ENSG00000184999.11 | 2.422375972 | background | background | background | 5 |
| ENSG00000185010.13 | 1.663243324 | background | background | background | 5 |
| ENSG00000185055.10 | 1.24810159 | background | background | background | 5 |
| ENSG00000185133.13 | 1.094603887 | background | background | background | 5 |
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| ENSG00000185215.8 | 1.044949279 | background | background | background | 5 |
| ENSG00000185340.15 | 1.26810687 | background | background | background | background |
| ENSG00000185344.13 | -1.412594573 | background | background | background | 5 |
| ENSG00000185386.14 | 1.278870282 | background | background | background | background |
| ENSG00000185467.7 | 1.106258277 | background | background | background | background |
| ENSG00000185482.7 | 1.82437504 | background | background | background | background |
| ENSG00000185614.4 | 1.55862971 | NA | background | background | background |
| ENSG00000185668.7 | 2.965622982 | NA | background | background | background |
| Gene          | Log2 Fold Change | p-value | Chromosome | Location  |
|--------------|------------------|---------|------------|-----------|
| ENSG00000185674.9 | 1.764079446     | background | background | background |
| ENSG00000185761.10 | 1.451193952     | background | background | background |
| ENSG00000185933.6 | 1.765967846     | NA | background | background | 5 |
| ENSG00000185974.6 | 3.084505848     | background | background | background | 5 |
| ENSG00000186115.12 | 2.950281078     | background | background | background | 5 |
| ENSG00000186198.3 | 1.189035183     | background | background | background | 5 |
| ENSG00000186212.3 | 1.225083882     | NA | background | background | 5 |
| ENSG00000186226.8 | 5.599384692     | background | background | background | 5 |
| ENSG00000186314.11 | -1.010394597    | background | background | background | 5 |
| ENSG00000186326.3 | 1.916481221     | NA | background | background | 5 |
| ENSG00000186340.14 | 1.678080661     | background | background | background | 5 |
| ENSG00000186340.14 | 1.678080661     | background | background | background | 5 |
| ENSG00000186354.10 | 3.485757681     | background | background | background | 5 |
| ENSG00000186407.6 | 1.415296654     | background | background | background | 5 |
| ENSG00000186409.14 | 1.060401692     | background | NA | background | 5 |
| ENSG00000186451.1 | 2.296495301     | NA | background | background | 5 |
| ENSG00000186517.13 | 1.559571439     | background | background | background | 5 |
| ENSG00000186871.6 | -1.053988411     | NA | background | background | 5 |
| ENSG00000186889.9 | 1.397167998     | background | background | background | 5 |
| ENSG00000186918.13 | -1.632928177    | background | background | background | 5 |
| ENSG00000186919.12 | 2.668829902     | background | background | background | 5 |
| ENSG00000186973.10 | 1.936255612     | background | NA | background | 5 |
| ENSG00000186994.11 | 2.473894046     | S | background | background | 5 |
| ENSG00000187003.6 | 3.112808465     | NA | background | background | 5 |
| ENSG00000187242.4 | 2.856056785     | background | background | background | 5 |
| ENSG00000187479.5 | 1.775761946     | NA | background | background | 5 |
| ENSG00000187492.8 | 1.516173217     | S | background | background | 5 |
| ENSG00000187559.5 | 2.090967843     | NA | background | background | 5 |
| ENSG00000187627.15 | 1.517402534     | background | NA | NA | 5 |
| ENSG00000187634.11 | 2.3097721     | background | background | background | 5 |
| ENSG00000187688.14 | 1.059406267     | background | background | background | 5 |
| ENSG00000187720.14 | 2.532426599     | background | background | background | 5 |
| ENSG00000187824.8 | -1.015786685    | background | background | background | 5 |
| ENSG00000187862.11 | 1.617906437     | background | background | background | 5 |
| ENSG00000187867.8 | 1.952835236     | background | NA | background | 5 |
| ENSG00000187922.13 | 1.601004657     | background | background | background | 5 |
| ENSG00000187987.9 | -1.952148167    | background | background | background | 5 |
| ENSG00000187994.13 | 1.446976626     | background | background | background | 5 |
| Gene   | log2FC | Tissue | Chromosome | Distance (kb) |
|--------|--------|--------|------------|---------------|
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| ENSG00000188015.9 | 1.656024995 | background | background | background |
| ENSG00000188038.7 | 2.13247291 | background | background | background |
| ENSG00000188257.10 | 4.95308022 | background | background | background |
| ENSG00000188385.11 | 1.571257569 | background | background | background |
| ENSG00000188389.10 | 2.91839212 | background | background | background |
| ENSG00000188396.3 | 1.722606917 | NA | background | background |
| ENSG00000188549.12 | 1.711754973 | background | background | background |
| ENSG00000188620.9 | 2.69877237 | background | background | background |
| ENSG00000188641.12 | -1.016572541 | background | background | background |
| ENSG00000188747.8 | 1.287144284 | background | background | background |
| ENSG00000188779.10 | 2.994057347 | 5 | NA | background |
| ENSG00000188784.4 | 2.517960089 | background | background | background |
| ENSG00000188816.3 | 2.059525529 | NA | background | background |
| ENSG00000188833.9 | 3.945917042 | background | background | background |
| ENSG00000188897.8 | 1.860663814 | background | background | background |
| ENSG00000188981.10 | 1.133574658 | background | background | background |
| ENSG00000189120.4 | 2.278027318 | NA | background | background |
| ENSG00000189233.11 | 1.121356283 | 5 | background | background |
| ENSG00000189308.10 | -1.010710401 | background | background | background |
| ENSG00000189350.12 | 1.277827034 | background | background | background |
| ENSG00000189410.11 | 1.213916382 | background | background | background |
| ENSG00000190681.9 | -1.284697979 | background | background | background |
| ENSG00000191514.11 | 1.766056495 | background | background | background |
| ENSG0000019196.2 | 1.346399028 | NA | background | background |
| ENSG00000195220.15 | 1.20263596 | background | background | background |
| ENSG00000196305.17 | -2.259943594 | 5 | background | background |
| ENSG00000196337.11 | 4.33089597 | NA | background | background |
| ENSG00000196338.12 | 1.924749598 | background | background | background |
| ENSG00000196361.9 | 1.322254722 | background | background | background |
| ENSG00000196408.11 | 1.38232745 | background | background | background |
| ENSG00000196420.7 | 2.594753518 | background | background | background |
| ENSG00000196562.14 | 2.208437992 | background | background | background |
| ENSG00000196632.10 | 1.06695885 | background | background | background |
| ENSG00000196711.8 | 3.837310708 | background | background | background |
| ENSG00000196734.8 | 8.225278299 | NA | background | background |
| ENSG00000196747.4 | 1.140797873 | NA | background | background |
| ENSG00000196754.10 | 2.61795131 | background | background | background |
| ENSG00000196787.3 | 1.678640683 | NA | background | background |
| ENSG00000196826.7 | -6.547023249 | background | background | background |
| ENSG00000196872.11 | 1.092405029 | 5 | background | background |
| Gene ID   | Log2 Fold Change | Method | P-value | Background Count |
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| ENSG00000196967.10 | 1.262798684 | background | background | background | 5 |
| ENSG00000197019.4 | -1.04358274 | NA | background | background | background |
| ENSG00000197084.5 | 5.612451839 | NA | NA | background | background |
| ENSG00000197093.10 | 2.680255087 | background | background | background | 5 |
| ENSG00000197124.11 | 1.03332733 | background | background | background | background |
| ENSG00000197162.9 | -1.747059351 | NA | background | background | 5 |
| ENSG00000197275.13 | 2.273219955 | background | background | background | 5 |
| ENSG00000197299.10 | -1.106089637 | background | background | background | 5 |
| ENSG00000197324.8 | 1.016625947 | background | background | background | 5 |
| ENSG00000197457.9 | -1.110971492 | background | background | background | 5 |
| ENSG00000197461.13 | 1.33035954 | background | background | background | 5 |
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| ENSG00000197540.7 | 1.948538357 | background | background | background | 5 |
| ENSG00000197768.10 | 1.383975951 | background | background | background | 5 |
| ENSG00000197822.9 | 1.20922287 | background | background | background | 5 |
| ENSG00000197888.2 | 4.181583981 | background | background | background | 5 |
| ENSG00000197903.7 | 1.023224388 | NA | NA | background | background |
| ENSG00000197943.9 | 6.227105745 | background | background | background | 5 |
| ENSG00000197956.9 | 1.670646539 | NA | background | background | background |
| ENSG00000198026.7 | 1.081577725 | background | background | background | 5 |
| ENSG00000198053.11 | 2.023522755 | background | background | background | 5 |
| ENSG00000198074.9 | 2.004617253 | background | background | background | 5 |
| ENSG00000198088.10 | -1.283320806 | background | 4 | background | 4 |
| ENSG00000198089.15 | 1.1260025 | background | background | background | 5 |
| ENSG00000198125.12 | 4.181365789 | background | background | background | 5 |
| ENSG00000198133.8 | 2.28408628 | background | background | background | 5 |
| ENSG00000198203.9 | 1.840092769 | background | background | background | 5 |
| ENSG00000198208.11 | 1.29248186 | background | background | background | 5 |
| ENSG00000198300.12 | -1.328251908 | background | background | background | 5 |
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| ENSG00000198576.3 | 1.813281372 | background | background | background | 5 |
| ENSG00000198610.10 | 2.899223041 | background | background | background | 5 |
| ENSG00000198700.9 | -1.255314287 | background | background | background | 5 |
| ENSG00000198753.11 | 2.10535858 | background | background | background | 5 |
| ENSG00000198791.11 | -1.243447221 | background | background | background | 5 |
| ENSG00000198796.6 | 2.524130877 | background | background | background | 4 |
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| ENSG00000198836.8 | -2.364856415 | background | background | background | 4 |
| ENSG00000198848.12 | 2.519404888 | background | background | background | 4 |
| ENSG00000198892.6 | -1.41363821 | NA | background | background | 5 |
| ENSG00000198908.11 | 1.20859473 | background | background | background | 5 |
| ENSG00000198910.12 | 1.72592864 | NA | background | background | 5 |
| ENSG00000198932.12 | 1.960942246 | background | background | background | 5 |
| ENSG00000198959.11 | 1.748548622 | background | background | background | 4 |
| ENSG00000203618.5 | 1.874277176 | NA | background | background | 5 |
| ENSG00000203690.11 | -1.262129313 | background | background | background | 5 |
| ENSG00000203697.11 | 2.967402715 | background | background | background | 5 |
| ENSG00000203727.3 | 1.72592864 | NA | background | background | 5 |
| ENSG00000203872.6 | -1.411002787 | background | background | background | 5 |
| ENSG00000203942.4 | 2.046560514 | background | background | background | 5 |
| ENSG00000204052.4 | 1.421593747 | background | background | background | 5 |
| ENSG00000204103.3 | 2.836437711 | NA | background | background | 5 |
| ENSG00000204252.13 | 2.266629656 | background | background | background | 5 |
| ENSG00000204262.11 | 1.960942246 | background | background | background | 5 |
| ENSG00000204366.3 | -1.118483561 | background | background | background | 5 |
| ENSG00000204396.10 | 1.590414977 | background | background | background | 5 |
| ENSG00000204519.10 | -1.109468859 | background | background | background | 5 |
| ENSG00000204583.9 | 3.360576177 | background | background | background | 5 |
| ENSG00000204614.8 | 2.358759918 | background | background | background | 5 |
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| ENSG00000204624.7 | -2.296919144 | background | background | background | 5 |
| ENSG00000204710.2 | 1.005900198 | background | background | background | 5 |
| ENSG00000204916.1 | 1.19660439 | background | background | background | 5 |
| ENSG00000204962.5 | 1.127172984 | background | NA | background | 5 |
| ENSG00000205277.9 | 3.258544208 | background | NA | background | 5 |
| ENSG00000205309.13 | 1.163921624 | background | background | background | 5 |
| ENSG00000205336.11 | 1.54445896 | background | background | background | 5 |
| ENSG00000205445.3 | 3.262934776 | NA | background | background | 5 |
| ENSG00000205639.10 | 1.925792385 | background | background | background | 5 |
| ENSG00000205683.11 | 1.029853111 | background | NA | NA | 5 |
| ENSG00000205710.3 | 1.065588377 | NA | background | background | 5 |
| ENSG00000205869.2 | 2.502099763 | NA | background | background | 5 |
| ENSG00000206113.10 | 3.244879217 | background | NA | NA | 5 |
| ENSG00000206432.4 | 4.321436019 | NA | background | background | 5 |
| ENSG00000211584.13 | 1.342131363 | NA | background | background | 5 |
| ENSG00000212724.3 | 1.990656453 | NA | background | background | 5 |
|   | ENSG00000212901.3 | 1.506381447 | NA | background | background | background |
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|   | ENSG00000213190.3 | 1.357604556 | NA | background | background | background |
|   | ENSG00000213199.7 | 1.553464927 | background | background | background | background |
|   | ENSG00000213413.2 | -1.083125138 | background | background | background | background |
|   | ENSG00000213654.9 | 2.321595136 | background | background | background | 5 |
|   | ENSG00000213694.3 | 3.065736793 | NA | background | background | background |
|   | ENSG00000213759.9 | 1.29794846 | background | background | background | 5 |
|   | ENSG00000214140.1 | 2.698842767 | NA | background | background | background |
|   | ENSG00000214456.8 | 1.639249788 | background | background | 5 | 5 |
|   | ENSG00000214655.1 | 1.437184865 | background | 5 | background | 5 |
|   | ENSG00000214960.9 | 1.522209861 | background | NA | background | 4 |
|   | ENSG00000215397.3 | 2.979290009 | NA | background | background | background |
|   | ENSG00000215440.1 | 1.136226909 | background | background | background | background |
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|   | ENSG00000215784.5 | -1.001128284 | background | background | background | 5 |
|   | ENSG00000219626.8 | 1.109218789 | background | NA | NA | 5 |
|   | ENSG00000221890.3 | -1.196577338 | background | background | background | 5 |
|   | ENSG00000221947.7 | 1.695246909 | background | background | background | 5 |
|   | ENSG00000221986.6 | 1.089303368 | background | background | background | background |
|   | ENSG00000221995.5 | 1.811395897 | NA | background | 5 | background |
|   | ENSG00000222009.8 | 1.922443103 | background | background | background | 5 |
|   | ENSG00000223572.9 | -1.606876422 | background | background | background | background |
|   | ENSG00000223573.6 | 2.020920061 | background | background | background | background |
|   | ENSG00000223953.5 | 1.620898949 | background | background | background | background |
|   | ENSG00000224389.8 | 1.415373771 | background | background | background | background |
|   | ENSG00000225614.2 | 4.279584745 | NA | NA | background | 5 |
|   | ENSG00000226733.2 | 1.529136749 | background | background | background | 5 |
|   | ENSG00000226763.4 | 2.163507302 | NA | background | background | 5 |
|   | ENSG00000227051.6 | 2.227349449 | NA | background | background | background |
|   | ENSG00000227268.3 | 1.112493003 | NA | background | background | background |
|   | ENSG00000227471.8 | 1.968938658 | background | NA | NA | 5 |
|   | ENSG00000229089.7 | 1.168284256 | background | background | background | 5 |
|   | ENSG00000229183.8 | 1.334688913 | background | background | background | 5 |
|   | ENSG00000231274.5 | 1.588545918 | background | NA | background | background |
|   | ENSG00000231852.6 | 2.365239803 | background | background | background | background |
|   | ENSG00000232237.3 | 5.316548578 | NA | background | background | background |
|   | ENSG00000233198.3 | 2.042298228 | background | background | background | background |
|   | ENSG00000233822.4 | 1.227666389 | NA | NA | background | 5 |
|   | ENSG000002343438.3 | 4.295338573 | NA | NA | background |
|   | ENSG00000234776.4 | 2.60454019 | background | background | background | background |
|   | ENSG00000236279.6 | 1.831779207 | background | background | background | 5 |
| Gene ID | Expression Value | Annotation 1 | Annotation 2 | Annotation 3 | Annotation 4 |
|---------|------------------|--------------|--------------|--------------|--------------|
| ENSG00000237412.6 | 2.363893498 | background | background | background | background |
| ENSG00000237452.2 | 2.393262115 | background | background | background | 5 |
| ENSG00000239605.9 | 2.469759833 | background | background | background | 5 |
| ENSG00000239998.5 | 2.99864631 | NA | background | background | background |
| ENSG00000240386.3 | 5.141991392 | NA | NA | NA | background |
| ENSG00000241484.9 | 2.090706771 | background | background | background | 5 |
| ENSG00000241635.7 | 3.37689925 | background | background | background | 5 |
| ENSG00000241644.2 | 1.298185831 | background | background | background | 5 |
| ENSG00000242732.4 | 2.68442627 | NA | background | background | background |
| ENSG00000243135.6 | 1.773990976 | background | background | background | 5 |
| ENSG00000243279.3 | 1.533523411 | background | background | background | background |
| ENSG00000243444.7 | 2.744983814 | background | background | background | 4 |
| ENSG00000243910.7 | 4.395907181 | background | background | background | 4 |
| ENSG00000243978.8 | 5.24388797 | background | background | background | 5 |
| ENSG00000244067.2 | 1.256235551 | background | background | background | background |
| ENSG00000244462.7 | -1.050676277 | NA | background | background | 5 |
| ENSG00000244731.7 | 1.301746452 | background | background | background | background |
| ENSG00000248235.6 | -1.53364681 | background | background | background | 5 |
| ENSG00000248405.10 | 6.271846174 | background | background | background | 5 |
| ENSG00000248746.5 | 1.804724114 | background | background | background | background |
| ENSG00000249141.1 | -2.152467597 | background | NA | background | 4 |
| ENSG00000251287.8 | 1.922364996 | background | background | background | background |
| ENSG00000253293.4 | 1.986607929 | NA | NA | background | background |
| ENSG00000253313.5 | 1.006130217 | NA | background | background | background |
| ENSG00000253598.1 | 1.236740357 | NA | background | background | background |
| ENSG00000253649.3 | 3.742800143 | background | background | background | 5 |
| ENSG00000254206.5 | 1.050170449 | background | background | background | background |
| ENSG00000254415.3 | 4.05221574 | background | background | background | background |
| ENSG00000254656.1 | -1.85383675 | NA | background | background | background |
| ENSG00000254827.5 | 2.05825746 | NA | background | background | background |
| ENSG00000255071.3 | 1.827109801 | background | background | background | 4 |
| ENSG00000255192.5 | 3.063081574 | NA | NA | background | background |
| ENSG00000255245.4 | 2.307879519 | background | background | background | 4 |
| ENSG00000255302.4 | 1.165492435 | NA | background | background | background |
| ENSG00000257108.1 | 1.02143815 | NA | background | background | background |
| ENSG00000257743.8 | 2.372248904 | background | background | background | 5 |
| ENSG00000258130.7 | 1.089473232 | S | background | background | 5 |
| ENSG00000258150.5 | 2.49479487 | S | background | background | 5 |
| ENSG00000259030.6 | -3.371622621 | background | background | NA | 5 |
| ENSG00000259120.2 | 1.521778913 | NA | background | background | background |
| ENSG00000259132.1 | 22.33377397 | background | NA | background | background |
| Gene ID          | Value         | Annotation | Annotation | Annotation | Annotation |
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| ENSG00000259511.2 | 1.255318917   | NA         | background | background | 5          |
| ENSG00000260272.1 | 2.185837436   | background | background | background | background |
| ENSG00000260325.1 | 2.293917366   | NA         | background | background | background |
| ENSG00000260428.2 | 1.008820586   | NA         | background | background | background |
| ENSG00000261308.2 | 2.346306978   | NA         | background | background | 5          |
| ENSG00000261456.5 | -1.569574641  | background | background | background | background |
| ENSG00000261594.3 | -1.351537903  | NA         | background | background | background |
| ENSG00000261678.2 | 1.291020984   | background | background | background | background |
| ENSG00000261857.6 | 3.302878076   | background | background | background | background |
| ENSG00000262179.2 | 1.64456491    | NA         | background | background | background |
| ENSG00000262655.3 | 1.130767804   | background | background | 5          | 3          |
| ENSG00000263639.5 | 2.343234631   | background | background | background | 5          |
| ENSG00000265763.3 | 1.085737934   | NA         | background | background | 5          |
| ENSG00000266524.2 | -1.839931988  | background | background | background | 5          |
| ENSG00000266714.7 | 1.484255618   | S          | NA         | NA         | 5          |
| ENSG00000267631.4 | 2.296282582   | NA         | background | NA         | background |
| ENSG00000269699.5 | -1.400010063  | background | background | background | 5          |
| ENSG00000269720.2 | 1.773969433   | NA         | background | NA         | background |
| ENSG00000270168.2 | 1.187720334   | NA         | background | background | 5          |
| ENSG00000270276.2 | 2.524469835   | NA         | background | background | 5          |
| ENSG00000270299.1 | 2.585271293   | NA         | background | background | 5          |
| ENSG00000270617.1 | 2.383599998   | background | background | background | 5          |
| ENSG00000270647.5 | -1.519138328  | background | background | background | 5          |
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| ENSG00000271810.5 | 1.270016731   | background | NA         | NA         | background |
| ENSG00000272196.2 | 2.2097583     | NA         | background | background | background |
| ENSG00000272899.3 | 1.223284008   | NA         | background | background | background |
| ENSG00000274180.1 | 1.427246795   | background | background | background | 5          |
| ENSG00000274209.4 | 3.081224936   | background | background | background | 5          |
| ENSG00000274750.2 | 1.253137421   | NA         | background | background | background |
| ENSG00000275152.4 | 1.707984286   | background | background | background | 5          |
| ENSG00000275832.4 | 3.583296337   | background | background | background | 5          |
| ENSG00000276043.4 | -1.150598237  | background | background | background | background |
| ENSG00000276180.1 | 1.056655725   | NA         | background | background | background |
| ENSG00000277363.4 | 1.480876245   | background | background | background | 5          |
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| ENSG00000277639.2 | 3.078299605   | background | background | background | 5          |
| ENSG00000278195.1 | 2.937614519   | background | background | background | background |
| ENSG00000278505.4 | 2.136417919   | background | background | background | background |
| ENSG00000278828.1 | 1.589526384   | NA         | background | background | background |
| Gene ID               | Value          | Background Status | NA   | Value          | Background Status |
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| ENSG00000279765.3    | 1.207543357    | background         | NA   | background     | background         |
| ENSG00000280987.4    | -1.110623342   | background         | NA   | background     | background         |
| ENSG00000282301.1    | 3.277457621    | background         | NA   | background     | background         |
| ENSG00000283071.1    | -1.118777875   | background         | NA   | background     | background         |
| ENSG00000283247.1    | 1.456319791    | background         | NA   | background     | background         |
| ENSG00000284188.1    | 2.390404914    | background         | NA   | background     | background         |
| ENSG00000284461.1    | 1.975728146    | background         | NA   | background     | background         |
| ENSG00000284713.1    | 4.361366275    | background         | NA   | background     | background         |
| ENSG00000284730.1    | 2.049821362    | background         | NA   | background     | background         |
| ENSG00000005513.9    | -1.239775324   | background         | NA   | background     | background         |
| ENSG00000006016.10   | -1.312133833   | background         | NA   | background     | background         |
| ENSG00000010610.9    | 1.049794881    | background         | NA   | background     | background         |
| ENSG00000049130.14   | 1.178753747    | background         | NA   | background     | background         |
| ENSG00000055955.15   | 2.762867441    | background         | NA   | background     | background         |
| ENSG00000058335.15   | 1.563263602    | background         | NA   | background     | background         |
| ENSG00000066056.13   | -1.653956606   | background         | NA   | background     | background         |
| ENSG00000071205.11   | 1.511804772    | background         | NA   | background     | background         |
| ENSG00000081041.8    | 1.51700803     | background         | NA   | background     | background         |
| ENSG00000085276.17   | 1.36219102     | background         | NA   | background     | background         |
| ENSG00000091138.12   | -1.23221331    | background         | NA   | background     | background         |
| ENSG00000092096.16   | -1.261894628   | background         | NA   | background     | background         |
| ENSG00000099365.10   | 1.121819362    | background         | NA   | background     | background         |
| ENSG00000100031.7    | 1.20039315     | background         | NA   | background     | background         |
| ENSG00000100461.17   | 1.77713696     | background         | NA   | background     | background         |
| ENSG00000101160.13   | 1.383378663    | background         | NA   | background     | background         |
| ENSG00000101188.4    | -1.159892391   | background         | NA   | background     | background         |
| ENSG00000101265.15   | 1.067387146    | background         | NA   | background     | background         |
| ENSG00000102780.16   | -1.476982566   | background         | NA   | background     | background         |
| ENSG00000105519.15   | 1.481471481    | background         | NA   | background     | background         |
| ENSG00000106991.13   | 1.062398105    | background         | NA   | background     | background         |
| ENSG00000108602.17   | 1.959373323    | background         | NA   | background     | background         |
| ENSG00000109610.5    | -1.476613861   | background         | NA   | background     | background         |
| ENSG00000111424.10   | 1.481233465    | background         | NA   | background     | background         |
| ENSG00000114841.17   | 1.248967878    | background         | NA   | background     | background         |
| ENSG00000114948.12   | 1.833489324    | background         | NA   | background     | background         |
| ENSG00000116039.11   | 1.279266904    | background         | NA   | background     | background         |
| ENSG00000116117.17   | 1.016886011    | background         | NA   | background     | background         |
| ENSG00000116254.17   | 1.170893877    | background         | NA   | background     | background         |
| ENSG00000116299.16   | 1.267951435    | background         | NA   | background     | background         |
| ENSG00000116852.14   | 1.296249026    | background         | NA   | background     | background         |
| ENSG00000117983.17   | 3.539241489    | background         | NA   | background     | background         |
|       | ENSG00000118507.15 | -2.049626234 | 4 | background | 4 | 3 |
|-------|-------------------|--------------|---|------------|---|---|
|       | ENSG00000122574.10 | 1.270670392  | 5 | background | 5 | 3 |
|       | ENSG00000124019.9 | 1.634631311  | NA | background | 4 |   |
|       | ENSG00000124635.8 | 1.20463905   | NA | NA | NA | 5 |
|       | ENSG00000127528.5 | 1.097687712  | background | background | 5 |   |
|       | ENSG00000128285.4 | 1.73715574   | NA | background | 4 |   |
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|       | ENSG00000128564.6 | -1.342677566 | NA | background | 5 |   |
|       | ENSG00000130477.15 | 1.04764008   | 5 | NA | 5 | 4 |
|       | ENSG00000130649.9 | -1.35675855  | 5 | background | 4 |   |
|       | ENSG00000130812.10 | -1.077397288 | background | background | 5 |   |
|       | ENSG00000132744.7 | -1.19952933  | background | background | 5 |   |
|       | ENSG00000133488.14 | 1.32023076  | 5 | background | 5 |   |
|       | ENSG00000135373.12 | 1.143721876 | background | background | 5 |   |
|       | ENSG00000135678.11 | -1.565256588 | background | background | 4 | 2 |
|       | ENSG00000137460.8 | 1.216857792  | 4 | background | 5 | 4 |
|       | ENSG00000140945.16 | 1.264534013  | background | background | 5 | 3 |
|       | ENSG00000141338.13 | -1.461151929 | 4 | background | background | 3 |   |
|       | ENSG00000143278.3 | -1.019307538 | background | background | 4 |   |
|       | ENSG00000143632.14 | 1.228712885  | background | background | 5 | 5 |
|       | ENSG00000144712.11 | 1.248578485  | background | background | 5 | 4 |
|       | ENSG00000146678.9 | -1.172559026 | background | background | 5 | 5 |
|       | ENSG00000152377.13 | 2.42991192  | 5 | background | 5 | 3 |
|       | ENSG00000155657.26 | 1.103755719  | 4 | background | 5 | 3 |
|       | ENSG00000160180.15 | 1.04712342  | NA | background | 5 |   |
|       | ENSG00000163220.10 | 1.250770722  | NA | background | 5 |   |
|       | ENSG00000163501.6 | 1.524091835  | background | NA | background | 5 |   |
|       | ENSG00000163810.11 | 1.479041969  | 5 | background | 5 | 4 |
|       | ENSG00000166664.13 | 1.164372598  | background | background | 4 | 4 |
|       | ENSG00000166762.16 | 1.126944671  | background | background | 4 |   |
|       | ENSG00000167183.2 | 1.097064644  | NA | background | 5 |   |
|       | ENSG00000168453.14 | 1.670501244  | 5 | background | background | 4 |   |
|       | ENSG00000169085.11 | 1.890839304  | 5 | background | 4 | 4 |
|       | ENSG00000169347.16 | 1.572493417  | background | background | 5 |   |
|       | ENSG00000171984.14 | -1.136388717 | background | background | 3 |   |
|       | ENSG00000172738.11 | 1.367051632  | background | background | 4 |   |
|       | ENSG00000173678.14 | -1.631655447 | 4 | NA | 4 | 4 |
|       | ENSG00000173947.13 | -1.063742268 | 4 | 5 | 5 | 4 |
|       | ENSG00000175170.14 | 1.621898719  | background | background | 4 |   |
|       | ENSG00000175564.12 | -1.677966849 | background | background | 5 | 5 |
|       | ENSG00000176046.8 | 1.084019519  | NA | background | 5 | 5 |
| Gene ID          | Log2 Fold Change | Background | Background | Background | P-value |
|-----------------|-----------------|------------|------------|------------|---------|
| ENSG00000177455.12 | -1.17668814     | background | background | background | 3       |
| ENSG00000180336.17 | 1.928187137     | background | background | background | 4       |
| ENSG00000183317.16 | 1.293436056     | background | NA         | background | 4       |
| ENSG00000183647.10 | 1.05125241      | background | background | background | 4       |
| ENSG00000183747.11 | 1.414519951     | 5          | background | background | 4       |
| ENSG00000183798.4  | -1.077904329    | background | background | 4         | 4       |
| ENSG00000184922.13 | 1.250899827     | background | background | background | 5       |
| ENSG00000184985.16 | 4.532911465     | background | background | background | 3       |
| ENSG00000188385.11 | 1.056296917     | 5          | background | 5          | 4       |
| ENSG00000198003.11 | -1.431660407    | 5          | background | 5          | 5       |
| ENSG00000198753.11 | 1.251100568     | 5          | background | 5          | 5       |
| ENSG00000198892.6  | 1.368351914     | background | background | 5          | 5       |
| ENSG00000205238.9  | 1.611433542     | 4          | NA         | NA         | 4       |
| ENSG00000205922.4  | -1.332654879    | NA         | background | 4          | 4       |
| ENSG00000213901.10 | 1.580756741     | background | background | 5          | 5       |
| ENSG00000213906.9  | 1.01549197      | NA         | background | background | 4       |
| ENSG00000214491.8  | 1.014206437     | 5          | NA         | background | 5       |
| ENSG00000005421.8  | -3.253466564    | background | background | 5          | 5       |
| ENSG00000013364.18 | 1.086319481     | background | background | 4          | 4       |
| ENSG00000014824.13 | -1.070703689    | background | background | 4          | 4       |
| ENSG00000018236.14 | 2.750241824     | background | background | 4          | 4       |
| ENSG00000021488.12 | 1.252226687     | background | background | 5          | 5       |
| ENSG00000022567.9  | 2.314184708     | background | background | 5          | 5       |
| ENSG00000026103.21 | 1.019156352     | background | background | 5          | 5       |
| ENSG00000028277.21 | 1.007890417     | background | background | 5          | 5       |
| ENSG00000031081.10 | 1.179429877     | background | background | 5          | 5       |
| ENSG000000034693.14 | -2.026171026    | background | background | 5          | 5       |
| ENSG00000039139.9  | 2.73151686      | 5          | background | 4          | 4       |
| ENSG00000040608.13 | -1.142498869    | NA         | background | 5          | 5       |
| ENSG00000046653.14 | 1.187545207     | background | background | 4          | 4       |
| Gene ID         | Value       | Background | | Background | | Background |
|----------------|-------------|------------|---|------------|---|------------|
| ENSG00000047346.12 | 1.16363897  | background | 5 | background | 5 |
| ENSG00000049167.13 | -1.126694933 | background | background | background | background |
| ENSG00000049769.12 | 1.029866862 | background | background | background | background |
| ENSG00000050555.17 | 1.066819923 | background | background | background | 5 |
| ENSG00000053747.15 | 1.028959983  | 5 background | background | background | 4 |
| ENSG00000053918.15 | 2.035794843 | background | background | background | 4 |
| ENSG00000054179.11 | -1.046987377 | background | background | background | background |
| ENSG00000054356.13 | -2.456353481 | background | background | background | 5 |
| ENSG00000055957.10 | 1.261016485 | background | background | background | 5 |
| ENSG00000057468.6  | 2.480617769 | background | background | 5 | 5 |
| ENSG00000059804.15 | 1.083542044 | background | background | background | 5 |
| ENSG00000061455.10 | 2.180253072 | background | background | 5 | 4 |
| ENSG00000062650.18 | -0.011904988 | 5 background | background | background | 5 |
| ENSG00000064763.10 | 1.350785371 | background | background | background | 5 |
| ENSG00000064886.13 | 1.02194546 | background | background | background | 5 |
| ENSG00000065325.12 | -1.45781715 | background | background | background | 5 |
| ENSG00000066056.13 | -1.774244449 | background | background | background | 5 |
| ENSG00000069020.18 | 1.314215033 | background | background | background | 3 |
| ENSG00000071205.11 | 1.488350972 | 5 background | background | background | 4 |
| ENSG00000079393.20 | 2.827430108 | background | background | background | background |
| ENSG00000079689.13 | 1.02811757 | background | background | background | 5 |
| ENSG00000080573.6  | 1.91953269 | background | background | background | 5 |
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| ENSG00000081818.3 | 1.724793636 | NA | background | background | 5 |
| ENSG00000082014.16 | 1.453644098 | background | background | background | 5 |
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| ENSG00000084764.10 | 1.103162464 | background | background | background | 5 |
| ENSG00000085276.17 | 1.347649425 | 5 background | background | background | 4 |
| ENSG00000085831.15 | 1.070786633 | background | background | background | background |
| ENSG00000086056.2 | -1.123814345 | background | background | background | background |
| ENSG00000087085.13 | 1.080426507 | background | background | background | background |
| ENSG00000087237.10 | 1.202516289 | background | background | background | 5 |
| ENSG00000089356.18 | -1.197829368 | background | background | background | background |
| ENSG00000090013.9 | 1.008764268 | NA | background | background | background |
| ENSG00000091482.5 | 1.130031118 | background | background | background | 5 |
| ENSG00000091704.9 | 2.176447909 | background | background | background | background |
| ENSG00000092020.10 | -1.359701759 | 5 background | background | background | 5 |
| ENSG00000092036.18 | -1.062090784 | background | background | background | background |
| ENSG00000092051.16 | 1.173588744 | background | background | background | 5 |
| ENSG00000092054.12 | 2.237147197 | background | background | background | background |
| Gene ID               | Value      | Background | Background | Background | Background |
|----------------------|------------|------------|------------|------------|------------|
| ENSG00000092529.23   | 1.332209256| background | background | background | background |
| ENSG00000095464.9    | 2.471587606| background | background | background | background |
| ENSG00000095970.16   | 3.259374455| background | background | background | background |
| ENSG00000099769.2    | 1.388224514| NA         | background | background | background |
| ENSG00000099834.18   | 1.045876726| background | background | background | background |
| ENSG000000100078.3   | -1.830450082| background | background | background | background |
| ENSG000000100100.12  | 1.159905024| background | background | background | background |
| ENSG000000100298.15  | 1.336692368| background | background | background | background |
| ENSG000000100360.14  | -4.227835746| background | background | background | background |
| ENSG000000101187.15  | -1.040044764| background | background | background | background |
| ENSG000000101342.9   | 1.041072722| background | background | background | background |
| ENSG000000101349.16  | 1.312887944| background | background | background | background |
| ENSG000000101605.12  | 1.229614015| background | background | background | background |
| ENSG000000102032.12  | 1.249926652| background | background | background | background |
| ENSG000000102362.15  | -1.274853848| background | background | background | background |
| ENSG000000102935.11  | 1.505130744| background | background | background | background |
| ENSG000000103037.15  | 1.727020124| background | background | background | background |
| ENSG000000103426.12  | -5.761209662| background | background | background | background |
| ENSG000000103599.19  | 1.386094604| background | background | background | background |
| ENSG000000104055.15  | 1.794450042| background | background | background | background |
| ENSG000000104826.12  | 1.400572571| NA         | NA         | background | background |
| ENSG000000105246.5   | 1.533256296| background | background | background | background |
| ENSG000000105290.11  | 1.18254929| background | background | background | background |
| ENSG000000105499.13  | 1.254292887| background | background | NA         | background |
| ENSG000000105650.21  | 1.516806568| background | background | 5          | background |
| ENSG000000105697.7   | -1.670470864| background | background | background | background |
| ENSG000000106688.11  | 2.589982495| background | background | background | background |
| ENSG000000106991.13  | 1.149860475| background | background | background | background |
| ENSG000000107159.12  | -1.338982088| background | background | background | background |
| ENSG000000107165.12  | 2.66329266| background | background | background | background |
| ENSG000000108309.13  | 3.74308213| background | background | background | background |
| ENSG000000108387.14  | 1.302668511| background | background | background | background |
| Gene ID       | Value          | Type 1  | Type 2  | Type 3  | Type 4 |
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| ENSG00000108602.17 | 1.115381534    | background | background | background | 5      |
| ENSG00000108852.14 | 2.12449496     | background | background | background | 4      |
| ENSG00000109193.11 | 1.705098494    | 5        | background | background | 5      |
| ENSG00000110318.13 | 1.65607717     | 5        | background | background | 5      |
| ENSG00000110887.7 | 2.421670671    | background | background | background |         |
| ENSG00000111247.14 | -1.285619234   | 5        | background | background | 5      |
| ENSG00000111344.11 | 2.779094164    | background | background | background | 5      |
| ENSG00000111913.17 | 1.872641071    | background | background | background | 4      |
| ENSG00000111962.7 | 1.22101793     | background | background | background | 4      |
| ENSG00000112221.11 | 1.386767273    | background | background | background | 5      |
| ENSG00000112337.10 | 1.060935216    | background | background | background | 5      |
| ENSG00000112559.13 | 2.145426577    | NA       | background | background | 5      |
| ENSG00000112742.9 | -1.016723473   | 5        | background | background | 5      |
| ENSG00000113083.13 | -1.063751004   | background | background | background | 5      |
| ENSG00000113108.19 | 1.076390945    | background | background | background | 5      |
| ENSG00000113889.11 | 1.075578638    | background | background | background |         |
| ENSG00000115183.14 | 1.162862443    | background | background | background | 5      |
| ENSG00000115211.15 | -1.266325549   | 5        | background | background | 5      |
| ENSG00000115325.13 | -1.200282317   | background | background | background |         |
| ENSG00000115339.13 | 1.222155421    | background | background | background | 4      |
| ENSG00000116254.17 | 2.563751522    | background | background | background | 5      |
| ENSG00000116299.16 | 2.144379912    | background | background | background | 4      |
| ENSG00000117148.7 | -1.228470797   | NA       | background | background | 5      |
| ENSG00000117472.9 | 1.296534198    | background | background | background | 5      |
| ENSG00000117643.14 | 1.755092044    | background | background | background | 5      |
| ENSG00000117724.12 | -1.190668516   | 5        | background | background | 5      |
| ENSG00000117983.17 | 2.123918895    | background | background | background |         |
| ENSG00000118094.11 | 1.819788445    | background | background | background |         |
| ENSG00000118194.18 | 2.818769416    | background | background | background | 5      |
| ENSG00000118507.15 | -2.340003398   | 5        | background | background | 4      |
| ENSG00000118514.13 | 1.201865748    | background | background | background | 5      |
| ENSG00000118520.14 | -1.321081808   | background | background | background | 5      |
| ENSG00000119147.9 | 4.994898015    | background | background | background | 5      |
| ENSG00000119614.2 | 2.202626561    | NA       | background | background | 5      |
| ENSG00000119614.2 | 2.202626561    | background | background | background | 5      |
| ENSG00000119681.11 | 1.04158088     | background | background | background | 4      |
| ENSG00000119866.20 | 1.099253582    | NA       | background | background | 5      |
| ENSG00000120057.4 | -1.336921028   | NA       | background | background |         |
| ENSG00000120253.13 | -1.04459012    | background | background | background | 5      |
| ENSG00000120438.11 | -1.843937688   | background | background | background | 5      |
| ENSG00000120539.14 | -1.166516488   | 5        | background | background | 5      |
| ID          | Value     | Position 1 | Position 2 | Position 3 | Position 4 | Position 5 |
|-------------|-----------|------------|------------|------------|------------|------------|
| ENSG00000121270.15 | 1.216749535 | background | background | background | background | 5          |
| ENSG00000121454.5 | 1.085119345 | background | background | background | background | 5          |
| ENSG00000121552.3 | 1.227859605 | NA         | background | background | background | 4          |
| ENSG00000121577.13 | 1.405256071 | background | background | background | background | 5          |
| ENSG00000122574.10 | 1.810818288 | background | background | background | background | 4          |
| ENSG00000122711.8 | 1.269337593 | background | background | background | background | 5          |
| ENSG00000123933.16 | 1.11077208  | background | background | background | background | 5          |
| ENSG00000124143.10 | 1.073300795 | background | background | background | background | 5          |
| ENSG00000124635.8 | 1.204025558 | NA         | NA         | NA         | background | 5          |
| ENSG00000124762.13 | 1.411923524 | NA         | background | background | background | 5          |
| ENSG00000125144.13 | -1.99085581 | NA         | background | background | background | 5          |
| ENSG00000125538.11 | -2.54213858 | background | background | background | background | 5          |
| ENSG00000125848.9 | 1.457282494 | background | background | background | background | 5          |
| ENSG00000125910.5 | 1.74716532  | NA         | background | background | background | 5          |
| ENSG00000126353.3 | 1.820852416 | background | background | background | background | 5          |
| ENSG00000126460.10 | 1.043366154 | background | background | background | background | 5          |
| ENSG00000126467.10 | 1.42434511  | background | background | background | background | 5          |
| ENSG00000127528.5 | 1.623706076 | background | background | background | background | 5          |
| ENSG00000127585.11 | -1.714441104 | background | background | background | background | 5          |
| ENSG00000128268.11 | 1.454629045 | background | background | background | background | 5          |
| ENSG00000128285.4 | 1.35113671  | NA         | background | background | background | 5          |
| ENSG00000128340.14 | 1.547846421 | background | background | background | background | 5          |
| ENSG00000128346.10 | 1.015793074 | background | background | background | background | 5          |
| ENSG00000128645.14 | -1.86734768 | NA         | background | background | background | 5          |
| ENSG00000128652.11 | -1.265991695 | 5         | background | background | background | 5          |
| ENSG00000129038.15 | 1.150647084 | background | background | background | background | 5          |
| ENSG00000129167.9 | 1.256130641 | background | background | background | background | 5          |
| ENSG00000129654.7 | 1.361760162 | background | background | background | background | 5          |
| ENSG00000129946.10 | 1.199367692 | background | NA         | background | background | 5          |
| ENSG00000130477.15 | 1.641932741 | background | NA         | background | background | 5          |
| ENSG00000130766.4 | 1.176359036 | background | background | background | background | 5          |
| ENSG00000130783.13 | 1.80469823  | background | background | background | background | 5          |
| ENSG00000131018.22 | 1.309702326 | 4         | background | background | background | 4          |
| ENSG00000131233.9 | 2.239555481 | NA         | background | NA         | background | 5          |
| ENSG00000132274.15 | 1.090937402 | background | background | background | background | 5          |
| ENSG00000132514.13 | 1.518899868 | background | background | background | background | 5          |
| ENSG00000132517.14 | 1.233966752 | background | background | background | background | 5          |
| ENSG00000132563.15 | 1.532598733 | background | background | background | background | 5          |
| ENSG00000132692.18 | 1.07281831  | background | background | background | background | 5          |
| ENSG00000132840.9 | 1.096136137 | background | background | background | background | 5          |
| ENSG00000133488.14 | 1.552571173 | background | background | background | background | 5          |
| Gene ID                | Value     | Background | Background | Background | Count |
|-----------------------|-----------|------------|------------|------------|-------|
| ENSG00000134240.11    | 1.291253298 | background | background | background | 5     |
| ENSG00000134242.15    | 4.399329422  | background | background | background | 5     |
| ENSG00000134762.16    | 1.570587791  | background | background | background | 5     |
| ENSG00000135318.11    | 1.125223189  | background | background | background | 5     |
| ENSG00000135519.6     | -1.637464954 | background | background | background | 5     |
| ENSG00000135709.12    | 1.154305136  | background | background | background | 5     |
| ENSG00000135902.9     | 1.975832705  | background | background | background | 5     |
| ENSG00000136286.14    | 1.250091381  | background | background | background | 5     |
| ENSG00000136378.14    | 2.105305976  | background | background | background | 5     |
| ENSG00000136717.14    | 1.259002666  | background | background | background | 5     |
| ENSG00000137501.17    | 1.54695675   | background | background | background | 5     |
| ENSG00000137834.14    | -1.063424863 | NA         | background | background | 5     |
| ENSG00000137877.9     | 1.818981252  | background | background | background | 5     |
| ENSG00000137877.9     | 1.818981252  | background | background | background | 5     |
| ENSG00000137968.16    | 1.357210882  | background | background | background | 4     |
| ENSG00000138182.14    | -1.3590429   | background | background | background | 4     |
| ENSG00000138798.11    | 2.685604689  | background | background | background | 4     |
| ENSG00000138829.11    | 3.655953605  | background | background | background | 4     |
| ENSG00000138829.11    | 3.655953605  | background | background | background | 4     |
| ENSG00000139055.6     | 1.506481347  | background | background | background | 5     |
| ENSG00000139112.10    | 1.279147655  | background | background | background | 5     |
| ENSG00000139187.9     | 1.10917949   | background | background | background | 5     |
| ENSG00000139278.9     | 1.58615598   | background | background | background | 5     |
| ENSG00000139364.10    | 1.532364667  | background | background | background | 5     |
| ENSG00000139410.14    | 1.413410793  | background | background | background | 5     |
| ENSG00000139914.6     | 1.217344976  | NA         | background | background | background | 5     |
| ENSG00000140107.10    | 1.026655872  | background | background | background | 5     |
| ENSG00000140297.12    | 1.061393736  | background | background | background | 5     |
| ENSG00000142173.14    | 1.809057043  | background | background | background | 5     |
| ENSG00000142185.16    | 1.489671154  | background | background | background | 5     |
| ENSG00000142765.17    | 1.541255412  | background | background | background | 5     |
| ENSG00000143028.8     | 1.193833842  | background | background | background | 5     |
| ENSG00000143110.11    | 1.044651761  | background | background | background | 5     |
| ENSG00000143217.8     | 1.817401053  | background | background | background | 5     |
| ENSG00000143387.12    | 1.293373583  | background | background | background | 5     |
| ENSG00000143632.14    | 1.293369742  | background | background | background | 5     |
| ENSG00000143786.7     | 1.257947174  | background | background | background | 4     |
| ENSG00000144339.11    | 2.958357217  | background | background | background | 4     |
| ENSG00000144355.14    | 1.076368615  | background | background | background | 3     |
| ENSG00000144452.14    | 1.830435906  | background | background | background | 3     |
| ENSG00000144596.12    | 2.010060969  | background | background | background | 5     |
| Gene ID       | Log2 Fold Change | Background | Background | Background | Value |
|--------------|-----------------|------------|------------|------------|--------|
| ENSG00000144852.17 | 1.110450296     | background | background | background | 5      |
| ENSG00000146166.16 | 1.86076158      | background | background | background | 4      |
| ENSG00000146216.11 | 1.083497474     | background | background | background | 5      |
| ENSG00000146281.5 | -1.21938292      | background | background | background | 5      |
| ENSG00000146453.12 | 3.183346055     | background | background | background | 5      |
| ENSG00000146678.9 | -1.221291898    | background | background | background |          |
| ENSG00000146755.10| 1.171136724     | background | background | background |          |
| ENSG00000147003.5 | 1.11113157      | background | background | background |          |
| ENSG00000147166.10| 1.510958745     | background | background | background |          |
| ENSG00000148204.11| 1.22441603      | background | NA         | background | 5      |
| ENSG00000148219.16| 1.13249207      | background | background | background | 3      |
| ENSG00000148344.10| 2.508453175     | background | background | background |          |
| ENSG00000149527.17| 1.294284866     | background | background | background |          |
| ENSG00000149557.12| 2.019444947     | S          | background | background | 5      |
| ENSG00000149591.16| 1.304074306     | background | background | background |          |
| ENSG00000149633.11| -2.065159718    | background | background | background | 4      |
| ENSG00000149742.9 | 1.052781783     | S          | background | background | 5      |
| ENSG00000149781.12| 1.254909447     | background | background | background |          |
| ENSG00000151640.12| 1.205921288     | background | background | background | 5      |
| ENSG00000152137.6 | 1.967035885    | background | background | background | 5      |
| ENSG00000153029.14| 1.886547094     | NA         | background | background |          |
| ENSG00000153446.15| 1.246018503     | background | background | background | 5      |
| ENSG00000153531.13| 1.274752039     | background | background | background | 5      |
| ENSG00000154040.20| 1.376441617     | background | background | background | 5      |
| ENSG00000154262.12| 1.178392422     | background | background | background | 5      |
| ENSG00000154274.14| 1.63325891      | NA         | background | background | 4      |
| ENSG00000154589.6 | 1.60703543      | background | background | background | 5      |
| ENSG00000154822.17| 3.384634398     | background | background | background | 4      |
| ENSG00000154889.16| 1.567571717     | background | background | background | 5      |
| ENSG00000155428.12| 1.548049762     | NA         | background | background |          |
| ENSG00000155657.26| 1.214711602     | S          | background | background | 3      |
| ENSG00000155760.2 | -1.29579103     | NA         | background | background |          |
| ENSG00000155849.15| 1.87336379      | background | background | background | 4      |
| ENSG00000156049.6 | 2.660357933     | background | background | background | 4      |
| ENSG00000156127.6 | 1.441927691     | NA         | background | background | 5      |
| ENSG00000156709.13| -1.045715642    | background | background | background | 5      |
| ENSG00000157470.11| -1.099245602    | background | background | background | 5      |
| ENSG00000157514.16| 1.073962029     | background | background | background | 2      |
| ENSG00000157703.15| 4.046800123     | background | background | background | 4      |
| ENSG00000158055.15| 1.995474239     | background | background | background | 5      |
| Gene ID               | Log2 Fold Change | Status    | P-value |
|----------------------|-----------------|-----------|---------|
| ENSG00000158428.3    | 2.382492073     | background|         |
| ENSG00000158445.9    | 1.609225666     | NA        |         |
| ENSG00000158486.13   | 1.008249452     | 4         | NA      |
| ENSG00000158865.12   | 1.434210632     | background|         |
| ENSG00000159388.5    | 1.148221036     | NA        |         |
| ENSG00000161031.12   | 1.46507269      | background|         |
| ENSG00000161328.10   | 1.080182374     | background|         |
| ENSG00000161509.13   | 1.19633905      | background|         |
| ENSG00000161513.11   | 1.127890815     | background|         |
| ENSG00000161544.9    | 2.249748794     | background|         |
| ENSG00000161642.17   | 1.166695618     | background|         |
| ENSG00000161896.11   | 3.431254423     | background|         |
| ENSG00000162069.14   | 1.273540175     | background|         |
| ENSG00000162241.12   | 1.008441307     | background|         |
| ENSG00000162490.6    | 1.391853144     | background|         |
| ENSG00000162511.7    | 1.29745656      | background|         |
| ENSG00000162572.20   | 1.118937111     | 5         | background|         |
| ENSG00000163071.10   | 1.10085828      | 5         | background|         |
| ENSG00000163220.10   | 1.65586318      | NA        | background|         |
| ENSG00000163491.16   | 1.114873539     | 5         | background|         |
| ENSG00000163512.13   | -1.372541522    | background|         |
| ENSG00000163735.6    | 1.277840606     | background|         |
| ENSG00000163794.6    | 1.692402126     | NA        | background|         |
| ENSG00000163810.11   | 1.990945859     | background|         |
| ENSG00000164182.10   | -1.172253714    | background|         |
| ENSG00000164199.16   | 1.111589762     | 5         | background|         |
| ENSG00000164344.15   | 1.64688629      | background|         |
| ENSG00000164404.8    | 1.05516193      | background|         |
| ENSG00000164683.16   | -1.219072636    | background|         |
| ENSG00000164938.13   | 1.815174237     | background|         |
| ENSG00000164972.12   | -1.20964911     | background|         |
| ENSG00000165072.9    | 3.070932061     | 5         | background|         |
| ENSG00000165092.12   | -1.297217542    | background|         |
| ENSG00000165194.15   | 4.23568218      | background|         |
| ENSG00000165197.4    | 1.438526721     | background|         |
| ENSG00000165215.6    | 1.048710846     | NA        | background|         |
| ENSG00000165269.12   | 1.162952182     | background|         |
| ENSG00000165899.10   | 2.928215383     | background|         |
| ENSG00000166145.14   | 1.153063758     | background|         |
| ENSG00000166268.10   | 2.366701081     | background|         |
| ENSG00000166558.10   | 2.666791178     | NA        | NA      |
| Gene ID           | Value       | Background | Background | Background | Background |
|------------------|-------------|------------|------------|------------|------------|
| ENSGO00000166592 | 2.118051422 | background | background | background | background |
| ENSGO00000166682 | 1.226834915 | background | background | background | background |
| ENSGO00000166743 | 1.130640912 | background | background | background | background |
| ENSGO00000166866 | 1.202683297 | background | background | background | background |
| ENSGO00000166963 | 2.778504891 | background | background | background | background |
| ENSGO00000167131 | 1.738711204 | background | background | background | background |
| ENSGO00000167183 | 1.487410253 | NA         | background | background | background |
| ENSGO00000167191 | 1.03090778  | background | background | background | background |
| ENSGO00000167216 | 1.164502399 | background | background | background | background |
| ENSGO00000167483 | 1.440142355 | background | background | background | background |
| ENSGO00000167554 | 1.305922139 | background | background | background | background |
| ENSGO00000167568 | 1.206011013 | background | background | background | background |
| ENSGO00000167741 | 1.973187688 | 5          | background | background | background |
| ENSGO00000167744 | 1.090990796 | background | background | background | background |
| ENSGO00000167767 | 1.4293033   | background | background | background | background |
| ENSGO00000167800 | 1.182955399 | background | background | background | background |
| ENSGO00000167874 | 1.468105726 | NA         | background | background | background |
| ENSGO00000167910 | 1.95927141  | background | background | background | background |
| ENSGO00000168026 | 1.041484305 | background | background | background | background |
| ENSGO00000168404 | -1.0569303 | background | background | background | background |
| ENSGO00000168427 | 1.630499353 | background | background | background | background |
| ENSGO00000168679 | 1.166242292 | background | background | background | background |
| ENSGO00000168939 | 1.299626099 | NA         | background | background | background |
| ENSGO00000169026 | 1.29500063  | background | background | background | background |
| ENSGO00000169085 | 1.973187688 | 5          | background | background | background |
| ENSGO00000169403 | 1.020234858 | NA         | background | background | background |
| ENSGO00000169435 | 2.220598683 | background | background | background | background |
| ENSGO00000169688 | -1.98690927 | NA         | background | background | background |
| ENSGO00000169715 | -1.216723237 | NA         | background | background | background |
| ENSGO00000169896 | 4.041517396 | 5          | background | background | background |
| ENSGO00000169903 | 1.362125654 | background | background | background | background |
| ENSGO00000170049 | 1.081476224 | background | background | background | background |
| ENSGO00000170122 | 1.585532493 | NA         | background | background | background |
| ENSGO00000170166 | -1.016663434 | NA         | background | background | background |
| ENSGO00000170271 | 1.28565829  | background | background | background | background |
| ENSGO00000170324 | 1.818736561 | 5          | background | background | background |
| ENSGO00000170458 | 1.070032664 | NA         | background | background | background |
| ENSGO00000170525 | -1.5965512  | background | background | background | background |
| ENSGO00000170647 | 1.084385015 | NA         | background | background | background |
| ENSGO00000170835 | 1.566159057 | background | background | background | background |
| Ensembl ID       | Value 1   | Value 2   | Value 3   | Value 4   | Value 5 |
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| ENSG00000171219.8| 1.643112598| background| NA        | background| background |
| ENSG00000171346.15| 2.240686262| background| background| background| 5      |
| ENSG00000171388.11| -1.753393759| background| background| background| 5      |
| ENSG00000171560.14| 1.369104618| background| background| background| 5      |
| ENSG00000171564.11| 1.118599181| background| background| background| 5      |
| ENSG00000171631.14| 1.173379408| background| background| background| 5      |
| ENSG00000171885.13| 1.091700372| background| background| background| 5      |
| ENSG00000172073.3| 2.452845127| background| background| background|        |
| ENSG00000172116.21| 1.20828415| background| background| background| 4      |
| ENSG00000172379.20| 1.999600000| background| background| background| 5      |
| ENSG00000172458.4| -1.09866294| background| background| background| 5      |
| ENSG00000172738.11| 1.371700372| background| background| background| 5      |
| ENSG00000173156.6| 1.37829203| background| background| background| 5      |
| ENSG00000173175.14| 2.155319234| background| background| background| 5      |
| ENSG00000173281.4| 1.520827446| NA        | background| background|         |
| ENSG00000173702.7| 1.093770298| background| background| background| 5      |
| ENSG00000173714.7| 2.030525873| NA        | background| background|         |
| ENSG00000173846.12| 1.27216533| background| background| background|         |
| ENSG00000174885.12| 1.757121384| background| NA        | background|         |
| ENSG00000175329.12| 1.316159045| background| background| background| 5      |
| ENSG00000175513.9| 1.36909184 | background| background| background| 5      |
| ENSG00000175538.10| 1.246244082| background| background| background|         |
| ENSG00000176046.8| 1.477520522| NA        | background| background|         |
| ENSG00000176049.15| -1.177851748| background| background| background| 4      |
| ENSG00000176204.13| 1.22792209| background| background| background| 4      |
| ENSG00000176387.6| -1.16436633| NA        | background| background| 5      |
| ENSG00000177076.5| 1.407745977| background| background| background| 5      |
| ENSG00000177694.15| -2.622462509| background| background| background| 4      |
| ENSG00000177839.6| 1.01275116| NA        | background| background|         |
| ENSG00000178573.6| 1.146864805| NA        | background| background|         |
| ENSG00000178809.7| 1.143785667| NA        | background| background|         |
| ENSG00000178922.16| 1.076928717| background| background| background|         |
| ENSG00000179023.8| 1.80005254| NA        | NA        | background| 4      |
| ENSG00000179241.12| -1.382843474| background| background| background| 5      |
| ENSG00000179630.10| 1.15784401| background| background| background| 5      |
| ENSG00000179636.14| -1.08436832| background| background| background|         |
| ENSG00000179715.12| 1.189647223| background| background| background| 4      |
| ENSG00000180061.9| 1.876362427| background| background| background|         |
| ENSG00000180532.10| 2.48809647| background| background| background| 5      |
| ENSG00000181016.9| 1.226719026| NA        | background| background| 5      |
| ENSG00000181074.4| 3.11245112| NA        | background| background|         |
| Gene ID        | Value   | Background | NA | Background |
|---------------|---------|------------|----|------------|
| ENSG00000181143.15 | -3.384930777 | background | background | background | 4 |
| ENSG00000181333.11 | 1.129986846 | background | background | background | 5 |
| ENSG00000181418.7 | -1.05411267 | background | background | background | 5 |
| ENSG00000182230.11 | 1.13736469 | background | background | background | 4 |
| ENSG00000182326.14 | 1.851558125 | background | background | background | 4 |
| ENSG00000182752.9 | 2.16399064 | background | background | background | 5 |
| ENSG00000183072.9 | 1.095083033 | background | background | background | 5 |
| ENSG00000183185.9 | 1.24464577 | background | background | background | 5 |
| ENSG00000183317.16 | 1.586813151 | background | NA | background | 5 |
| ENSG00000184058.13 | 1.0030053 | background | background | background | 5 |
| ENSG00000184492.6 | 1.579799662 | background | background | background | 5 |
| ENSG00000184545.10 | 1.273432419 | background | background | background | 5 |
| ENSG00000184574.9 | 1.14423646 | background | background | background | 5 |
| ENSG00000184659.4 | 1.933852835 | background | background | background | 5 |
| ENSG00000184709.7 | -1.162397198 | background | background | background | 5 |
| ENSG00000184922.13 | 1.318348022 | background | background | background | 5 |
| ENSG00000184985.16 | 3.282411145 | background | background | background | 4 |
| ENSG00000184986.10 | -1.095575896 | background | background | background | 5 |
| ENSG00000184999.11 | 1.95840713 | background | background | background | 5 |
| ENSG00000185010.13 | 1.257762561 | background | background | background | 3 |
| ENSG00000185055.10 | 1.47842639 | background | background | background | 5 |
| ENSG00000185339.8 | 1.671335552 | background | background | background | 5 |
| ENSG00000185386.14 | 1.191472786 | background | background | background | 5 |
| ENSG00000185482.7 | 1.115988433 | background | background | background | 4 |
| ENSG00000185483.11 | -1.178806086 | background | background | background | 5 |
| ENSG00000185585.19 | 1.45084567 | background | NA | background | 5 |
| ENSG00000185668.7 | 1.590778478 | background | background | background | 5 |
| ENSG00000185669.5 | 1.006728678 | background | background | background | 5 |
| ENSG00000185674.9 | 1.683612479 | background | background | background | 5 |
| ENSG00000185955.4 | 2.380246361 | background | background | background | 5 |
| ENSG00000186115.12 | 1.225792839 | background | background | background | 5 |
| ENSG00000186517.13 | 2.066247971 | background | background | background | 5 |
| ENSG00000186529.15 | 1.122850893 | background | background | background | 5 |
| ENSG00000186994.11 | 2.134311619 | background | background | background | 5 |
| ENSG00000187193.8 | -1.290181924 | background | background | background | 5 |
| ENSG00000187288.10 | 1.171805906 | background | background | background | 5 |
| ENSG00000187627.15 | 1.441297348 | background | background | background | 4 |
| ENSG00000187720.14 | 1.347544729 | background | background | background | 4 |
| ENSG00000187758.7 | 1.919138492 | background | background | background | 5 |
| Gene ID                | Score   | Type     | ID          | Score   | Type     | ID          | Score   | Type     | ID          |
|-----------------------|---------|----------|-------------|---------|----------|-------------|---------|----------|-------------|
| ENSG00000187994.13    | 1.1725  | background | background  | background | background | 5           |
| ENSG00000187997.11    | 1.6892  | NA       | background  | background | background | 5           |
| ENSG00000188176.11    | -1.2038 | background | background  | background | background | 5           |
| ENSG00000188385.11    | 1.3836  | background | background  | background | background | 5           |
| ENSG00000188549.12    | 1.2101  | background | background  | background | background | 4           |
| ENSG00000188761.11    | 2.8810  | background | background  | background | background | 5           |
| ENSG00000189420.8     | 1.6849  | background | NA          | background | background | 5           |
| ENSG00000189753.11    | 1.3412  | background | background  | background | background | 5           |
| ENSG00000197535.14    | 1.2337  | background | background  | background | background | 5           |
| ENSG00000197668.10    | 1.7351  | background | background  | background | background | 5           |
| ENSG00000197852.9     | 1.1940  | NA       | background  | background | background | 5           |
| ENSG00000198417.6     | -1.6647 | background | background  | background | background | 5           |
| ENSG00000198753.11    | 1.1452  | background | background  | background | background | 5           |
| ENSG00000198892.6     | 1.3411  | background | background  | background | background | 5           |
| ENSG00000199808.11    | -1.3155 | NA       | background  | background | background | 5           |
| ENSG00000199859.11    | 1.1718  | background | background  | background | background | 5           |
| ENSG00000203546.7     | -1.2343 | background | background  | background | background | 5           |
| ENSG00000205307.11    | 2.6204  | background | background  | background | background | 5           |
| ENSG00000205336.11    | 1.0864  | background | background  | background | background | 5           |
| ENSG00000205362.11    | -1.1775 | NA       | background  | background | background | 5           |
| ENSG00000205364.3     | -2.0489 | NA       | background  | background | background | 5           |
| ENSG00000205639.10    | 1.1829  | background | background  | background | background | 5           |
| ENSG00000205869.2     | 1.9140  | NA       | background  | background | background | 5           |
| ENSG00000212724.3     | 1.2595  | NA       | background  | background | background | 5           |
| ENSG00000212901.3     | 1.7379  | NA       | background  | background | background | 5           |
| ENSG00000213190.3     | 1.5507  | NA       | background  | background | background | 5           |
| ENSG00000213759.9     | 1.1113  | background | background  | background | background | 5           |
| ENSG00000213901.10    | 1.9449  | background | background  | background | background | 5           |
| ENSG00000213903.8     | 1.5775  | NA       | background  | background | background | 5           |
| Gene ID          | Value 1     | Value 2     | Value 3     | Value 4     |
|-----------------|-------------|-------------|-------------|-------------|
| ENSG00000213906.9 | 1.574617881 | NA          | background  | background  |
| ENSG00000214140.10 | 2.199430944 | NA          | background  | background  |
| ENSG00000214376.5 | 1.488394589 | NA          | background  | 5           |
| ENSG00000215529.12 | 2.144034381 | background  | background  | NA          |
| ENSG00000219435.5 | -1.123734116 | background  | background  | background  |
| ENSG00000222009.8 | 1.261913521 | background  | background  | 5           |
| ENSG00000224383.7 | 2.338917866 | background  | background  | background  |
| ENSG00000226733.2 | 1.595399061 | NA          | background  | 4           |
| ENSG00000229833.9 | 1.120232505 | background  | background  | 4           |
| ENSG00000231852.6 | 1.943565547 | background  | background  | background  |
| ENSG00000231887.6 | 1.120232505 | background  | background  | 4           |
| ENSG00000233198.3 | 1.60284049  | background  | background  | background  |
| ENSG00000234776.4 | 3.49783311  | background  | background  | background  |
| ENSG00000241635.7 | 1.461109871 | background  | background  | 5           |
| ENSG00000243135.6 | 1.220150814 | background  | background  | 5           |
| ENSG00000243566.6 | 2.203969312 | background  | background  | background  |
| ENSG00000243910.7 | 2.743669972 | background  | background  | 4           |
| ENSG00000243978.8 | 3.071175301 | background  | background  | 5           |
| ENSG00000250091.2 | 1.488675655 | NA          | background  | 5           |
| ENSG00000251493.4 | -1.67790276 | NA          | background  | 5           |
| ENSG00000253309.6 | 2.734839358 | background  | background  | 5           |
| ENSG00000253598.1 | 1.210452921 | NA          | background  | 4           |
| ENSG00000253649.3 | 2.270902385 | background  | background  | 5           |
| ENSG00000254788.7 | 1.371025095 | NA          | background  | 4           |
| ENSG00000256453.1 | 1.131464774 | background  | background  | background  |
| ENSG00000257335.8 | 1.726381055 | 5           | background  | background  |
| ENSG00000259120.2 | 1.098620122 | NA          | background  | background  |
| ENSG00000259332.3 | 1.242645972 | background  | background  | 5           |
| ENSG00000260537.2 | 1.759889046 | background  | background  | 5           |
| ENSG00000260643.2 | 1.127575722 | background  | background  | 4           |
| ENSG00000262179.2 | 1.746355805 | NA          | background  | background  |
| ENSG00000263020.6 | 1.09961043  | background  | background  | 5           |
| ENSG00000265817.2 | -1.059969955 | S           | NA          | NA          |
| ENSG00000266964.5 | -1.225966044 | background  | background  | background  |
| ENSG00000267561.2 | 2.362481701 | S           | background  | 3           |
| ENSG00000274750.2 | 1.001276285 | NA          | background  | background  |
| ENSG00000274810.4 | 1.676620952 | background  | NA          | 4           |
| ENSG00000277277.3 | 1.141381453 | NA          | background  | background  |
| ENSG00000277462.1 | -1.049108522 | background  | background  | 5           |
| Gene ID             | Value          | Background1 | Background2 | Background3 | Background4 |
|---------------------|----------------|-------------|-------------|-------------|-------------|
| ENSG00000277639.2   | 1.815623582    | background  | background  | background  | background  |
| ENSG00000278195.1   | 1.456771798    | background  | background  | background  | background  |
| ENSG00000278677.1   | -1.027745183   | NA          | NA          | NA          | background  |
| ENSG00000281028.1   | 4.055795767    | background  | background  | background  | background  |
| ENSG00000283297.1   | 1.113954173    | background  | background  | background  | background  |
| ENSG00000283526.1   | 1.629805112    | background  | background  | background  | background  |
| ENSG00000284713.1   | 1.761542403    | NA          | background  | background  | background  |
| ENSG00000003987.13  | -1.063745106   | background  | background  | background  | background  |
| ENSG00000005187.11  | 1.300657218    | background  | background  | background  | background  |
| ENSG00000005981.12  | -1.691823447   | background  | background  | background  | background  |
| ENSG00000010610.9   | 1.132257417    | 5           | background  | background  | background  |
| ENSG00000013588.7   | -1.200978234   | 5           | background  | background  | background  |
| ENSG00000020181.17  | -1.176360807   | background  | background  | background  | background  |
| ENSG00000025039.14  | -1.56726601    | background  | background  | background  | background  |
| ENSG00000034510.5   | -1.16211559    | background  | background  | background  | background  |
| ENSG00000035664.11  | 1.969164607    | background  | background  | background  | background  |
| ENSG00000039068.18  | 1.137448151    | background  | background  | background  | background  |
| ENSG00000040608.13  | -1.436162027   | NA          | background  | background  | background  |
| ENSG00000045179.11  | -1.205782121   | background  | background  | background  | background  |
| ENSG00000054356.13  | -2.41142771    | 5           | background  | background  | background  |
| ENSG00000061656.9   | -1.571893822   | background  | background  | background  | background  |
| ENSG00000064787.13  | -1.636103635   | 5           | background  | background  | background  |
| ENSG00000067057.16  | -1.241520464   | background  | background  | background  | background  |
| ENSG00000069667.15  | -1.223411026   | 5           | background  | background  | background  |
| ENSG00000070915.9   | -1.012870759   | background  | background  | background  | background  |
| ENSG00000071205.11  | 1.659490681    | background  | background  | background  | background  |
| ENSG00000079263.18  | -1.935476469   | background  | background  | background  | background  |
| ENSG00000079393.20  | 1.537827417    | background  | background  | background  | background  |
| ENSG00000086159.12  | -1.349601098   | NA          | background  | background  | background  |
| ENSG00000091138.12  | -1.917932965   | background  | background  | background  | background  |
| ENSG00000091656.15  | -1.857160735   | 5           | background  | background  | background  |
| ENSG00000095752.6   | -1.578661795   | background  | background  | background  | background  |
| ENSG00000100342.20  | -1.36136694    | background  | background  | background  | background  |
| ENSG00000101162.3   | -1.303579404   | background  | background  | background  | background  |
| ENSG00000101210.10  | -1.368185653   | background  | background  | background  | background  |
| ENSG00000101695.8   | 1.198605502    | background  | background  | background  | background  |
| ENSG00000104419.14  | -1.539296417   | background  | background  | background  | background  |
| ENSG00000104765.15  | -1.069086898   | background  | background  | background  | background  |
| ENSG00000105519.15  | 1.352746496    | background  | background  | background  | background  |
| ENSG00000105668.7   | -1.214557545   | NA          | NA          | background  | background  |
| Gene ID       | Value       | Description         | Value   | Description         |
|--------------|-------------|---------------------|---------|---------------------|
| ENSG00000105696.8 | -1.427768128 | background          | background | background |
| ENSG00000105697.7 | -1.808361897 | NA                  | background | background |
| ENSG00000106541.11 | -1.175600342 | background          | background | background |
| ENSG00000107159.12 | -2.689371503 | background          | background | background |
| ENSG00000107331.16 | -1.087511974 | background          | background | background |
| ENSG00000108576.9 | -1.038519369 | background          | background | background |
| ENSG00000109107.13 | -1.160784776 | background          | background | background |
| ENSG00000109705.7 | -1.986310965 | NA                  | background | background |
| ENSG00000110244.6 | -1.49535565  | background          | background | background |
| ENSG00000110245.11 | -1.466871823 | background          | background | background |
| ENSG00000111181.16 | -1.021642014 | background          | background | background |
| ENSG00000111319.12 | -1.846308414 | background          | background | background |
| ENSG00000111335.12 | 1.22116185   | background          | background | background |
| ENSG00000111817.16 | -2.044507764 | background          | background | background |
| ENSG00000111340.12 | -1.347604423 | background          | background | background |
| ENSG00000111372.11 | -1.225422539 | background          | background | background |
| ENSG00000114268.11 | -1.378524988 | background          | background | background |
| ENSG00000114737.15 | 1.101692422 | background          | background | background |
| ENSG00000114948.12 | 3.31120535  | background          | background | background |
| ENSG00000116260.16 | -1.340453835 | background          | background | background |
| ENSG00000117983.17 | 2.277347728 | background          | background | background |
| ENSG00000118785.13 | 1.687078942 | background          | background | background |
| ENSG00000119938.8 | -1.06919423  | NA                  | background | background |
| ENSG00000120322.3 | -1.585917264 | NA                  | background | background |
| ENSG00000120833.13 | 2.623415799  | background          | background | background |
| ENSG00000122711.8 | 1.059139601  | background          | background | background |
| ENSG00000123999.4 | -1.031594127 | NA                  | background | background |
| ENSG00000124253.10 | -1.231350912 | background          | background | background |
| ENSG00000124635.8 | 1.215161712  | NA                  | NA       | background |
| ENSG00000125895.5 | -1.15214466  | NA                  | background | background |
| ENSG00000127528.5 | 2.354105766  | background          | background | background |
| ENSG00000128274.15 | -1.824247775 | NA                  | background | background |
| ENSG00000128285.4 | 1.581092482  | NA                  | background | background |
| ENSG00000129521.13 | -1.33078163  | background          | background | background |
| ENSG00000129946.10 | -1.151509636 | 5                   | NA       | background |
| ENSG00000129991.12 | -1.309592251 | background          | background | background |
| ENSG00000130513.6 | 1.203386099  | NA                  | background | background |
| ENSG00000130592.15 | -1.488711393 | background          | background | background |
| Gene ID     | Log2 Fold Change | Description | Chromosome | Start | End   |
|-------------|-----------------|-------------|------------|-------|-------|
| ENSG0000013053.15 | -1.322819399 | background  | background | background | 5 |
| ENSG0000013082.15 | -1.277014295 | background  | background | background | 5 |
| ENSG0000013082.15 | -2.156971583 | background  | background | background | 5 |
| ENSG00000131482.9 | -1.47359959 | background  | background | background | 5 |
| ENSG0000013274.7 | -1.87635174 | background  | background | background | 5 |
| ENSG00000133401.15 | 2.747242922 | background  | background | background | 4 |
| ENSG00000133805.15 | -1.52096331 | background  | background | background | 4 |
| ENSG00000134107.4 | -1.12431579 | background  | background | background | 5 |
| ENSG00000134215.15 | -1.02040733 | background  | background | background | 3 |
| ENSG00000134363.11 | 1.319136122 | NA          | background | background | 5 |
| ENSG00000134762.16 | 1.463189351 | background  | background | background | 4 |
| ENSG00000135636.13 | -1.51914725 | background  | background | background | 5 |
| ENSG00000137078.8 | -2.49063588 | background  | background | background | 5 |
| ENSG00000137251.15 | 1.57236268 | background  | background | background | 4 |
| ENSG00000137801.10 | 1.10620243 | background  | background | background | 5 |
| ENSG0000013813.3 | 1.19697251 | background  | background | background | 4 |
| ENSG00000138823.13 | -1.09571841 | background  | background | background | 5 |
| ENSG00000139278.9 | 1.11238595 | background  | background | background | 4 |
| ENSG00000139547.7 | 1.25473483 | background  | background | background | 5 |
| ENSG00000140450.8 | 1.02176511 | background  | background | background | 4 |
| ENSG00000140678.16 | -1.28567982 | background  | background | background | 5 |
| ENSG00000141934.9 | 1.39403722 | background  | background | background | 5 |
| ENSG00000142235.8 | -1.04125912 | background  | NA         | background | 5 |
| ENSG00000142549.9 | -1.72156187 | background  | background | background | 5 |
| ENSG00000142611.16 | -1.35601708 | background  | background | background | 4 |
| ENSG00000143632.14 | 2.86518822 | background  | background | background | 5 |
| ENSG00000143796.7 | 1.039948317 | background | background | background | 4 |
| ENSG00000143847.15 | -1.30619833 | background  | background | background | 5 |
| ENSG00000144596.12 | 1.95043062 | background  | background | background | 5 |
| ENSG00000146122.16 | 2.099636276 | background | background | background | 4 |
| ENSG00000146678.9 | -1.269318422 | background | background | background | 5 |
| ENSG00000146755.10 | 1.20107995 | background  | background | background | 5 |
| ENSG00000147872.9 | -1.07021006 | background  | background | background | 4 |
| ENSG00000149043.16 | -1.516797861 | background | background | background | 5 |
| ENSG00000149564.11 | -1.404036571 | background | background | background | 5 |
| ENSG00000149591.16 | 1.655532922 | background | background | background | 5 |
| ENSG00000151062.14 | -1.04605876 | background  | background | background | 4 |
| ENSG00000151632.17 | 1.101226816 | background  | background | background | 4 |
| ENSG00000152256.13 | -1.016412228 | background | background | background | 4 |
| ENSG00000152315.4 | 2.113095379 | NA          | background | background | 4 |
| ENSG00000153902.13 | -2.14657193 | background  | background | background | 5 |
| Ensembl ID   | Drug ID     | Log2FoldChange | Annotation | Adj_PValue | Count |
|--------------|-------------|----------------|------------|------------|-------|
| ENSG00000155428.12 | 1.253023145 | NA             | background | background | 5     |
| ENSG00000155760.2  | -1.546863873 | NA             | background | background | 4     |
| ENSG00000155622.11 | -2.192610087 | background     | background | background | 5     |
| ENSG00000156463.17 | -1.190062227 | background     | background | background | 4     |
| ENSG00000156353.13 | -1.710436639 | background     | background | background | 4     |
| ENSG00000158887.15 | 1.524788928  | background     | background | background | 5     |
| ENSG00000160180.15 | 1.047295151  | NA             | background | 5          |
| ENSG00000160401.14 | 1.13400942   | background     | background | 5          |
| ENSG00000161243.8  | -1.477243628 | background     | background | 5          |
| ENSG00000161958.10 | -1.74904772  | background     | background | 5          |
| ENSG00000162069.14 | -2.640497778 | background     | background | 5          |
| ENSG00000162078.11 | 1.05907265   | background     | background | 3          |
| ENSG00000162909.17 | -1.215888105 | background     | background | 4          |
| ENSG00000162946.21 | -1.009305406 | 5             | background | 4          |
| ENSG00000163220.10 | 2.147095758  | NA             | background | 5          |
| ENSG00000163501.6  | 1.132214392  | background     | background | 5          |
| ENSG00000163536.12 | -1.355105127 | background     | background | 4          |
| ENSG00000163735.6  | 2.004531096  | background     | background | 5          |
| ENSG00000164342.12 | -2.786288823 | background     | background | 5          |
| ENSG00000164344.15 | 1.113101593  | 5             | background | 5          |
| ENSG00000164442.9  | -1.024494304 | NA             | background | background |
| ENSG00000165188.13 | -2.045843096 | NA             | background | background |
| ENSG00000165272.14 | -1.607798871 | background     | background | background |
| ENSG00000166046.10 | -1.321941215 | background     | background | 5          |
| ENSG00000166401.14 | -1.141600697 | 5             | background | 5          |
| ENSG00000166503.8  | 1.755432369  | background     | background | 5          |
| ENSG00000166510.13 | -1.119273848 | background     | background | 4          |
| ENSG00000166578.9  | 1.070185619  | NA             | background | background |
| ENSG00000166592.11 | 2.208838925  | background     | background | 5          |
| ENSG00000166866.12 | -1.265903609 | 5             | background | 5          |
| ENSG00000166984.11 | -1.523719654 | background     | background | 5          |
| ENSG00000167131.16 | 2.114453242  | background     | background | 5          |
| ENSG00000167191.11 | 1.916809532  | 5             | background | 5          |
| ENSG00000167207.12 | 1.46709716   | background     | background | 5          |
| ENSG00000167244.18 | -1.026896193 | background     | background | 5          |
| ENSG00000167552.13 | -1.428000054 | background     | background | 5          |
| ENSG00000167772.11 | -1.32733455  | background     | background | 5          |
| ENSG00000167964.12 | -1.167964437 | background     | background | 5          |
| ENSG00000168528.11 | -1.39206803  | background     | background | 5          |
| ENSG00000168675.18 | -1.166576549 | background     | background | 4          |
| ENSG00000168824.14 | -4.072599353 | background     | background | 5          |
| Gene ID             | Value     | Background | Background | Length | Length |
|--------------------|-----------|------------|------------|--------|--------|
| ENSG00000169213.6  | -1.693631997 | background | background | 4      | 4      |
| ENSG00000169435.13 | 2.510738987  | background | background | 5      | 5      |
| ENSG00000169499.14 | -1.239209234 | background | background | 5      | 5      |
| ENSG00000169583.12 | -1.309905479 | background | background | 4      | 4      |
| ENSG00000170379.19 | -1.077316557 | background | background | 3      |        |
| ENSG00000170525.19 | -1.887033046 | background | background | 5      | 4      |
| ENSG00000171345.13 | -1.1221332   | background | background | 4      |        |
| ENSG00000171345.13 | -1.1221332   | background | background | 5      | 5      |
| ENSG00000171631.14 | 1.354372261  | background | background | 5      |        |
| ENSG00000172116.21 | 1.315936349  | background | background | 4      |        |
| ENSG00000172738.11 | 1.112249139  | background | background | 4      |        |
| ENSG00000172765.16 | -1.25696602  | background | background | 4      | 4      |
| ENSG00000173212.4  | -1.134955365 | background | background | 5      | 5      |
| ENSG00000173678.14 | -2.729371822 | background | background | 5      | 5      |
| ENSG00000174945.13 | 3.033982463  | background | background | 4      |        |
| ENSG00000176046.8  | 1.149257142  | background | background | 4      |        |
| ENSG00000176490.4  | -1.381652243 | background | background | 4      |        |
| ENSG00000177181.14 | -1.161614966 | background | background | 4      | 4      |
| ENSG00000177455.12 | -1.624057692 | background | background | 4      |        |
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| ENSG00000178531.5  | -1.147706998 | background | background | 4      | 4      |
| ENSG00000179520.10 | 1.006111143  | background | background | 5      | 5      |
| ENSG00000182459.4  | 2.920121586  | background | background | 5      | 5      |
| ENSG00000182492.15 | 1.650253805  | background | background | 5      | 5      |
| ENSG00000182575.7  | -1.35991451  | background | background | 5      |        |
| ENSG00000182676.4  | -1.013159394 | background | background | 5      |        |
| ENSG00000183145.8  | -1.29561475  | background | background | 5      |        |
| ENSG00000183248.11 | -1.217991515 | background | background | 5      |        |
| ENSG00000183747.11 | 1.471094186  | background | background | 5      |        |
| ENSG00000183798.4  | -1.17545053  | background | background | 5      |        |
| ENSG00000184557.4  | -1.701361725 | background | background | 5      |        |
| ENSG00000184730.10 | 1.253479033  | background | background | 5      |        |
| ENSG00000184922.13 | 1.036633606  | background | background | 5      |        |
| ENSG00000185112.5  | 1.011237497  | background | background | 5      |        |
| ENSG00000185745.9  | -1.717847864 | background | background | 5      |        |
| ENSG00000186918.13 | -1.203859374 | background | background | 5      |        |
| ENSG00000187017.15 | -1.407694395 | background | background | 5      | 5      |
| ENSG00000187045.16 | -1.37130642  | background | background | 5      |        |
| ENSG00000187210.12 | -1.682628357 | background | background | 5      |        |
| ENSG00000187288.10 | -1.95895664  | background | background | 5      |        |
| Gene ID | Mean Score | Background | 5' Background | 3' Background | 5' 3' Background | 5' Background |
|--------|------------|------------|---------------|---------------|-----------------|---------------|
| ENSG00000187595.15 | -1.362457576 | background | background | NA | 5 |
| ENSG00000187627.15 | 1.135624323 | 4 | NA | NA | 4 |
| ENSG00000187726.8 | -1.469820388 | background | background | background | 5 |
| ENSG00000188064.9 | -1.45417788 | background | background | 5 |
| ENSG00000188112.8 | -1.169371817 | background | NA | background | 5 |
| ENSG0000019410.11 | -1.234986445 | background | background | background | background |
| ENSG00000196569.11 | -1.52823799 | S | background | background | 4 |
| ENSG00000196826.7 | -6.20392554 | background | background | 5 |
| ENSG00000197558.11 | -1.754133434 | background | NA | background | 4 |
| ENSG00000197599.12 | -1.341592128 | background | background | background | background |
| ENSG00000198074.9 | 1.722347868 | background | background | background | 5 |
| ENSG00000198075.9 | -1.563672943 | S | background | background | 5 |
| ENSG00000198691.11 | -2.422629817 | S | background | background | 4 |
| ENSG00000203685.9 | 1.32546948 | background | background | 5 |
| ENSG00000203690.11 | -1.876725529 | background | background | 4 |
| ENSG00000204580.13 | -1.085130163 | background | background | 4 |
| ENSG00000204653.9 | -1.805875759 | background | background | background |
| ENSG00000205238.9 | 1.944981911 | background | NA | NA | 5 |
| ENSG00000205364.3 | 1.440449889 | NA | background | background | background |
| ENSG00000205609.12 | -1.374573558 | S | background | background | 5 |
| ENSG00000212127.5 | 1.046343348 | NA | background | background | 4 |
| ENSG00000213145.9 | -1.309575646 | background | background | background |
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| ENSG00000214140.1 | 1.435311337 | NA | background | background | 5 |
| ENSG00000215788.9 | -1.082497162 | background | background | background |
| ENSG00000221890.3 | -1.35508417 | background | background | 5 |
| ENSG00000223658.7 | -1.346658312 | NA | background | background | 5 |
| ENSG00000227471.8 | 1.692993811 | background | NA | NA | 5 |
| ENSG00000233198.3 | -1.117809992 | background | background | background |
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| ENSG00000241635.7 | 1.085952468 | background | background | background | 5 |
| ENSG00000248167.7 | -2.496635772 | background | background | background | 5 |
| ENSG00000265817.2 | -1.601123202 | S | NA | NA | 5 |
| ENSG00000266714.7 | -1.046630666 | background | NA | NA | 5 |
| ENSG00000266964.5 | -1.49128849 | background | background | background |
| ENSG00000267221.2 | -1.127990469 | background | background | background |
| ENSG00000270299.1 | 2.009709209 | NA | background | 5 | 5 |
| ENSG00000273047.1 | -1.152141835 | NA | NA | background |
| ENSG00000278463.1 | -2.546030165 | NA | NA | background | background |
| Gene ID          | Value     | Background | Background | Background | Background |
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| ENSG00000283071.1 | -1.304106292 | background |
| ENSG00000004777.18 | -1.671320895  | background |
| ENSG00000005981.12 | 1.967384216   | background |
| ENSG00000006652.13 | 1.048387078   | background |
| ENSG00000007237.18 | -2.213890969  | background |
| ENSG00000007255.10 | -1.086427156  | background |
| ENSG00000008056.13 | 3.469345837   | background |
| ENSG00000009950.15 | -1.135756907  | background |
| ENSG00000010610.9  | -2.628083409  | background |
| ENSG00000011052.21 | -1.09993916   | background |
| ENSG00000011347.9  | -1.130480719  | background |
| ENSG00000011590.13 | 2.015954435   | background |
| ENSG00000013588.7  | 1.481769114   | background |
| ENSG00000014914.20 | 1.841990407   | background |
| ENSG00000015413.9  | -1.07936229   | background |
| ENSG00000018280.16 | -1.424452418  | background |
| ENSG00000019186.9  | 1.70079426    | background |
| ENSG00000021461.16 | -1.729957526  | NA         |
| ENSG00000026297.15 | -1.073122455  | background |
| ENSG00000033170.16 | 1.05832327    | background |
| ENSG00000034239.10 | -1.265574077  | background |
| ENSG00000038427.15 | 2.146155799   | background |
| ENSG00000040608.13 | -2.176823233  | NA         |
| ENSG00000049323.15 | 2.092658007   | background |
| ENSG00000052344.15 | -1.737759412  | background |
| ENSG00000054356.13 | -4.389793795  | background |
| ENSG00000055957.10 | -1.708332428  | background |
| ENSG00000059728.10 | 1.319141103   | background |
| ENSG00000061656.9  | -2.732098434  | background |
| ENSG00000064687.12 | -1.50525236   | background |
| ENSG00000065325.12 | -2.869971922  | background |
| ENSG00000065413.18 | 1.733416366   | background |
| ENSG00000066056.13 | 1.70948735    | background |
| ENSG00000067798.14 | 2.266271267   | background |
| ENSG00000070915.9  | -3.256072426  | background |
| ENSG00000072163.19 | -1.016466415  | background |
| ENSG00000072858.10 | 2.595382032   | background |
| ENSG00000074416.13 | 2.101414072   | background |
| ENSG00000077238.13 | 1.130263728   | background |
| ENSG00000078890.6  | -1.255695015  | background |
| ENSG00000079000.14 | -1.167108127  | background |
| Gene          | Value     | Background | Background | Background | 5 |
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| ENSG00000079263.18 | 1.513106043 | background | background | background | 5 |
| ENSG00000079308.16  | -2.227512669 | background | background | background | 5 |
| ENSG00000079931.14  | 2.74834605  | background | background | background | 4 |
| ENSG00000080031.9   | -1.22089612  | background | background | background | 5 |
| ENSG00000080371.5   | 1.086816235 | background | background | background | 5 |
| ENSG00000081041.8   | 1.483632511 | background | background | background | background |
| ENSG00000083814.13  | 1.982688916 | background | background | background | background |
| ENSG00000084110.10  | -1.875378047 | background | background | background | 5 |
| ENSG00000086159.12  | -2.693980275 | NA         | background | background | 5 |
| ENSG00000086506.2   | -1.009052653 | background | background | background | background |
| ENSG00000087074.7   | 1.430228451 | NA         | background | background | background |
| ENSG0000008995752.6 | 3.70421473  | background | background | background | background |
| ENSG00000099840.13  | -1.581065693 | background | background | background | background |
| ENSG00000099953.9   | -1.516117541 | background | background | background | background |
| ENSG00000099998.17  | 1.695616241 | background | background | background | 5 |
| ENSG00000100036.12  | 1.769076537 | NA         | background | background | 4 |
| ENSG00000100079.6   | -1.933579109 | background | background | background | background |
| ENSG00000100307.12  | -1.431146184 | background | background | background | 5 |
| ENSG00000100342.20  | -1.09987766 | background | background | background | background |
| ENSG00000100373.9   | -1.185136272 | background | background | background | background |
| ENSG00000100593.17  | -1.063926463 | background | background | background | 5 |
| ENSG00000100628.11  | 1.039439663 | background | background | background | 5 |
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| ENSG00000101162.3   | -2.211720874 | background | background | background | 5 |
| ENSG00000101188.4   | 1.733860281 | background | background | background | 5 |
| ENSG00000101230.5   | 1.50473076  | background | background | background | 5 |
| ENSG00000101265.15  | 1.30110975 | background | background | background | 5 |
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| ENSG00000101638.13  | -3.291057743 | background | background | background | 5 |
| ENSG00000101746.15  | 2.893249036 | background | background | background | 4 |
| ENSG00000101928.12  | 1.074126424 | background | background | background | 5 |
| ENSG00000102048.15  | -1.062481281 | background | background | background | 5 |
| ENSG00000102265.11  | 1.187220573 | background | background | background | background |
| ENSG00000102554.13  | 1.230632492 | background | background | background | 5 |
| ENSG00000103227.18  | -1.1871545 | background | background | background | 5 |
| ENSG00000104055.15  | 1.230901387 | background | background | background | 5 |
| ENSG00000104081.13  | -1.489759662 | background | background | background | 5 |
| ENSG00000104213.12  | -1.200783206 | background | background | background | 5 |
| ENSG00000104419.14  | -1.687342889 | background | background | background | 4 |
| Gene ID          | Value         | Description | Description | Description | Description |
|-----------------|---------------|-------------|-------------|-------------|-------------|
| ENSG00000104765.15 | -1.751417873 | background  | background  | background  | background   |
| ENSG00000104835.14 | -1.131372122 | background  | background  | background  | background   |
| ENSG00000105219.8  | -1.264474879 | NA          | background  | background  | background   |
| ENSG00000105245.9  | -1.01420764  | background  | background  | background  | background   |
| ENSG00000105270.14 | 1.414485628  | background  | background  | background  | background   |
| ENSG00000105369.9  | 1.116239869  | background  | background  | background  | background   |
| ENSG00000105371.8  | -1.442713746 | NA          | background  | background  | background   |
| ENSG00000105374.4  | -1.175667746 | NA          | background  | background  | background   |
| ENSG00000105613.9  | -1.090723976 | background  | background  | background  | background   |
| ENSG00000105650.21 | -1.41504314  | background  | background  | background  | background   |
| ENSG00000105668.7  | -2.02854053  | NA          | NA          | background  | background   |
| ENSG00000105707.13 | -1.701366926 | background  | background  | background  | background   |
| ENSG00000105808.13 | -1.568025311 | background  | background  | background  | background   |
| ENSG00000105825.11 | 2.521729441  | NA          | background  | background  | background   |
| ENSG00000106541.11 | 1.277315695  | background  | background  | background  | background   |
| ENSG00000107159.12 | -3.413659799 | background  | background  | background  | background   |
| ENSG00000107249.21 | 2.33664655   | background  | background  | background  | background   |
| ENSG00000107331.16 | -1.038866382 | background  | background  | background  | background   |
| ENSG00000107815.7  | 1.026735624  | background  | background  | background  | background   |
| ENSG00000107859.9  | -4.375392396 | background  | background  | background  | background   |
| ENSG00000108479.11 | -1.222671752 | background  | background  | background  | background   |
| ENSG00000108551.4  | 1.479079324  | NA          | background  | background  | background   |
| ENSG00000108813.10 | -1.265481014 | background  | background  | background  | background   |
| ENSG00000108840.15 | -1.108285899 | background  | background  | background  | background   |
| ENSG00000108932.11 | 1.488922605  | background  | background  | background  | background   |
| ENSG00000109107.13 | -1.454321454 | background  | background  | background  | background   |
| ENSG00000109610.5  | -2.569366415 | NA          | background  | background  | background   |
| ENSG00000109758.8  | -1.30852163  | background  | background  | background  | background   |
| ENSG00000109758.8  | -1.30852163  | background  | background  | background  | background   |
| ENSG00000110243.11 | -2.041373199 | background  | background  | background  | background   |
| ENSG00000110244.6  | -1.729643392 | background  | background  | background  | background   |
| ENSG00000110245.11 | -2.074897645 | background  | background  | background  | background   |
| ENSG00000110427.14 | 2.261345231  | background  | background  | background  | background   |
| ENSG00000110436.11 | -1.50478072  | background  | background  | background  | background   |
| ENSG00000110811.19 | -1.378901739 | background  | background  | background  | background   |
| ENSG00000110841.13 | 1.134383759  | background  | background  | background  | background   |
| ENSG00000110881.11 | -1.266491004 | background  | background  | background  | background   |
| ENSG00000111145.7  | 1.406278406  | background  | background  | background  | background   |
| ENSG00000111452.12 | -1.102762787 | background  | background  | background  | background   |
| ENSG00000111780.8  | 5.142570843  | background  | NA          | background  | background   |
| ENSG00000112494.9  | -1.81012101  | background  | background  | background  | background   |
| Gene ID | Value | Category |
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| ENSG00000112769.18 | 2.698691351 | background |
| ENSG00000113070.7 | 1.010286673 | background |
| ENSG00000113083.13 | -1.413022774 | background |
| ENSG00000113249.12 | 1.053960612 | background |
| ENSG00000113319.12 | 1.011735734 | background |
| ENSG00000113356.11 | 1.243205361 | background |
| ENSG00000113369.8 | 1.011735734 | background |
| ENSG00000113742.12 | 1.112719711 | background |
| ENSG00000114268.11 | -2.049572336 | background |
| ENSG00000114349.9 | -3.564903396 | background |
| ENSG00000115844.10 | 1.778240325 | background |
| ENSG00000115844.10 | 1.778240325 | background |
| ENSG00000115958.17 | -1.6656031 | background |
| ENSG00000116717.11 | 1.164086134 | NA |
| ENSG00000116717.11 | 1.164086134 | background |
| ENSG00000117834.12 | 1.176652231 | background |
| ENSG00000118156.12 | 1.5408578 | background |
| ENSG00000118200.14 | 1.20693319 | background |
| ENSG00000118298.10 | -1.051796141 | background |
| ENSG00000118520.14 | -1.675397529 | background |
| ENSG00000118557.15 | 1.382840127 | background |
| ENSG00000119542.7 | -1.6656031 | background |
| ENSG00000119535.17 | 1.164086134 | background |
| ENSG00000119681.11 | 1.35510863 | background |
| ENSG00000119737.5 | 1.103883257 | background |
| ENSG00000119938.8 | 1.35510863 | background |
| ENSG00000120158.11 | 1.023811617 | background |
| ENSG00000120211.4 | 1.550601975 | background |
| ENSG00000120318.15 | 1.710462138 | background |
| ENSG00000120694.19 | 1.022298301 | background |
| ENSG00000120738.7 | 2.193207199 | background |
| ENSG00000120833.13 | 1.395411045 | background |
| ENSG00000120896.13 | -1.011320838 | background |
| ENSG00000120913.23 | -1.20695772 | background |
| ENSG00000121211.10 | -1.521041696 | background |
| ENSG00000122133.16 | 1.375397102 | background |
| ENSG00000122641.10 | 1.863221693 | NA |
| ENSG00000122861.15 | 1.079665944 | background |
| Gene ID             | Expression Value | Functional Category | Value | 5    |
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| ENSG00000123999.4  | -1.965352613     | NA                  |       |      |
| ENSG00000124208.16 | 1.063673698      | background          |       |      |
| ENSG00000124251.10 | 1.217655293      | background          |       |      |
| ENSG00000124253.10 | -1.816826778     | background          |       |      |
| ENSG00000124766.6  | 2.214765149      | NA                  |       |      |
| ENSG00000124839.12 | -1.115878788     | background          |       |      |
| ENSG00000124882.3  | 2.6838697       | background          |       |      |
| ENSG00000125744.11 | -1.39526758      | background          |       |      |
| ENSG00000126218.11 | -1.415748288     | background          |       |      |
| ENSG00000126259.19 | -1.35673693      | background          |       |      |
| ENSG00000127252.5  | 1.67780191       | background          |       |      |
| ENSG00000127578.6  | -1.265457679     | NA                  |       |      |
| ENSG00000127585.11 | -2.62673981      | background          |       |      |
| ENSG00000127955.15 | 1.023831575      | background          |       |      |
| ENSG00000128242.12 | -1.96032779      | background          |       |      |
| ENSG00000128564.6  | 2.643893393      | NA                  |       |      |
| ENSG00000129116.17 | 1.195329768      | background          |       |      |
| ENSG00000129214.14 | -1.10091273      | background          |       |      |
| ENSG00000129521.13 | -1.294417886     | background          |       |      |
| ENSG00000129991.12 | -1.294887661     | background          |       |      |
| ENSG00000130427.2  | -1.29042132      | background          |       |      |
| ENSG00000130598.15 | -1.732233248     | background          |       |      |
| ENSG00000130635.15 | 1.678619032      | background          |       |      |
| ENSG00000130653.15 | -2.021871344     | S background        |       |      |
| ENSG00000130701.3  | -2.54679046      | background          |       |      |
| ENSG00000130821.15 | -1.065805427     | background          |       |      |
| ENSG00000130822.15 | -2.831575086     | background          |       |      |
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| ENSG00000130997.16 | -2.393512322     | background          |       |      |
| ENSG00000131016.16 | 1.799638886      | background          |       |      |
| ENSG00000131069.19 | -1.126887548     | background          |       |      |
| ENSG00000131386.17 | -1.114505128     | background          |       |      |
| ENSG00000131471.6  | -1.015607461     | background          |       |      |
| ENSG00000131480.8  | 1.202397081      | background          |       |      |
| ENSG00000131482.9  | -2.775395433     | background          |       |      |
| ENSG00000131746.12 | 1.671847152      | background          |       |      |
| ENSG00000131910.4  | -1.052335244     | background          |       |      |
| ENSG00000132692.18 | -1.494415279     | background          |       |      |
| ENSG00000132744.7  | -2.006242064     | background          |       |      |
| Gene ID       | Start Position | End Position | Score   | P-value | Chromosome | Strandedness | Strand | Quality Score |
|--------------|----------------|--------------|---------|---------|------------|--------------|--------|---------------|
| ENSGO0000133800.8 | 120           | 1.71526999   | background | background | background | 5           |        |               |
| ENSGO0000133863.7  | 1.697093785 | -1.080469022 | background | background | background | 4           |        |               |
| ENSGO0000134531.9  | 1.203276571 | -1.00585355  | background | background | background | 5           |        |               |
| ENSGO0000134668.12 | 1.803106415 | -1.01762522  | background | background | background | 5           |        |               |
| ENSGO0000134954.14 | 1.741069949 | -0.661607656 | S         | background | background | 4           |        |               |
| ENSGO0000135074.15 | 1.52497575  | -1.17096351  | background | background | background | 5           |        |               |
| ENSGO0000135324.5  | 1.709681548 | -1.449416838 | background | background | background | 5           |        |               |
| ENSGO0000135625.7  | 2.028039788 | -2.212829782 | background | background | background | 4           |        |               |
| ENSGO0000136286.14 | 1.8696351   | -1.384776894 | background | background | background | 5           |        |               |
| ENSGO0000136883.13 | 1.736306551 | -2.900776514 | background | background | background | 5           |        |               |
| ENSGO0000137200.12 | 1.716703922 | -1.097148395 | background | background | background | 4           |        |               |
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| ENSG00000160237.9 | -1.100869414 | background | background | background | background |
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| ENSG00000160323.18| -1.537732958 | background | background | background | background |
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| ENSG00000160972.9 | -1.084683506 | background | background | background | background |
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| ENSG00000162460.6 | -1.66036217  | background | background | background | background |
| ENSG00000162572.20| -1.437731227 | background | background | background | background |
| ENSG00000162591.15| -1.212316817 | background | background | background | background |
| Chromosome | Transcript | Log2FoldChange | Annotation | Annotation | Annotation |
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| 120        | ENSG00000166589.12 | -1.814421801 | background | background | background |
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| Gene ID       | Value          | #       | Description | #       |
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| ENSG00000167701.13 | -1.17097561   | background | background | background |
| ENSG00000167711.13 | -1.068064987  | background | background | background |
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| ENSG00000168421.12 | -3.473370967  | background | background | background |
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| Chromosome | Gene ID       | Expression | Functional Status | Functional Status | Functional Status | Functional Status |
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| 120        | ENSG00000175592.8  | 1.209669391  | NA                | background         | background         | 5                 |
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| 120        | ENSG00000176533.12 | -1.067107358 | background         | 4                 | background         | background         |
| 120        | ENSG00000176978.13 | -1.262442423 | background         | background         | background         | background         |
| 120        | ENSG00000177181.14 | -2.413480047 | NA                | 5                 | background         | 5                 |
| 120        | ENSG00000177374.12 | 1.57575345   | NA                | background         | background         | background         |
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| 120        | ENSG00000177606.6  | 1.094890101  | NA                | background         | background         | background         |
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| Gene ID          | Log2 Fold Change | Expression Value | Gene ID          | Log2 Fold Change | Expression Value |
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| ENSEMBL00000180432.5 | -1.681131341     | NA               | ENSEMBL00000180767.9 | -1.0014427       | background       |
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| ENSEMBL00000183072.9 | 1.119370136      | NA               | ENSEMBL00000183160.8 | 2.196388864      | background       |
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| ENSEMBL00000184985.7 | -1.337862607     | NA               | ENSEMBL00000184985.16 | 3.881190189      | background       |
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| ENSEMBL00000185155.11 | -1.025197737     | NA               | ENSEMBL00000185338.4 | -1.082917224     | NA               |
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| ENSEMBL00000187045.16 | -1.30391987      | background       | ENSEMBL00000187091.13 | -1.128669139     | background       |
| ENSEMBL00000187105.8 | -2.177195474     | background       | ENSEMBL00000187162.10 | -1.279615615     | background       |
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| ENSG00000188015.9 | 1.184835404  | background | background | background |
| ENSG00000188051.6 | -1.328769166 | background | background | background |
| ENSG00000188060.7 | -1.280940857 | background | background | background |
| ENSG00000188177.13 | -1.072361441 | background | background | background |
| ENSG00000188305.5 | 1.995511452  | background | background | background |
| ENSG00000188747.8 | -1.448546889 | background | background | background |
| ENSG00000196132.11 | -2.199707985 | background | background | background |
| ENSG00000196296.13 | -1.046737992 | background | background | background |
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| ENSG00000196557.12 | 1.752065098  | background | background | background |
| ENSG00000196604.12 | 1.124526959  | background | background | background |
| ENSG00000196660.10 | -1.226204672 | background | background | background |
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| ENSG00000196754.10 | 1.273587333  | background | background | background |
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| ENSG00000197385.5 | 1.12144322   | background | background | background |
| ENSG00000197496.5 | -1.613216592 | background | background | background |
| ENSG00000197558.11 | -3.266492716 | background | NA           | background |
| ENSG00000197599.12 | -1.270412079 | background | background | background |
| ENSG00000197780.9 | 1.089236776  | background | background | background |
| ENSG00000198133.8 | -1.228550894 | background | background | background |
| ENSG00000198363.17 | 1.038125123  | background | background | background |
| ENSG00000198417.6 | -1.681304953 | background | background | background |
| ENSG00000198604.10 | 1.002251238  | background | background | background |
| ENSG00000198734.10 | 1.093016781  | background | background | background |
| ENSG00000198838.13 | 1.436026319  | 5           | background | background |
| ENSG00000203985.10 | -1.724060779 | background | background | background |
| ENSG00000204099.11 | -1.074730333 | background | background | background |
| ENSG00000204248.10 | -1.393051962 | background | background | background |
| Gene ID | Value | Background | Background | Background | Background |
|---------|-------|------------|------------|------------|------------|
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| ENSG00000204653.9 | -1.637261526 | background | background | background | background |
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| ENSG00000205609.12 | -3.098808168 | background | background | background | background |
| ENSG00000205978.5 | -2.561879024 | background | background | background | background |
| ENSG00000213066.11 | -1.040778778 | background | background | background | background |
| ENSG00000213145.9 | -1.471829072 | background | background | background | background |
| ENSG00000213316.9 | -2.561879024 | background | background | background | background |
| ENSG00000213398.7 | -1.01557756 | background | background | background | background |
| ENSG00000213456.8 | -1.92140596 | background | background | background | background |
| ENSG00000221890.3 | -2.06820992 | background | background | background | background |
| ENSG000002221932.6 | -1.15960072 | background | background | background | background |
| ENSG00000222594.3 | -1.607835713 | background | background | background | background |
| ENSG000002231274.5 | 2.19410224 | background | NA | background | background |
| ENSG000002235169.7 | -1.05974371 | background | background | background | background |
| ENSG000002236197.3 | 1.92140596 | background | NA | background | background |
| ENSG000002239697.10 | -1.106351145 | background | background | background | background |
| ENSG000002239713.8 | -1.340799857 | background | background | background | background |
| ENSG000002240065.7 | -1.0634331 | background | background | background | background |
| ENSG000002241186.9 | -1.143658885 | background | background | background | background |
| ENSG000002241852.9 | -1.475182992 | background | background | background | background |
| ENSG000002243279.3 | 1.201142528 | background | background | background | background |
| ENSG000002244067.2 | -1.096459072 | background | background | background | background |
| ENSG000002244187.7 | 1.253000965 | background | background | background | background |
| ENSG000002241586.9 | -1.096421327 | background | background | background | background |
| ENSG000002248235.6 | -5.572484223 | background | background | background | background |
| ENSG000002249141.1 | -2.727361151 | background | NA | background | background |
| ENSG000002249992.1 | 1.253000965 | background | background | background | background |
| ENSG000002253313.5 | -4.170811297 | background | background | background | background |
| ENSG000002254402.6 | -1.139943388 | background | background | background | background |
| ENSG000002255150.2 | 1.943177729 | background | background | background | background |
| ENSG000002257108.1 | -1.407368491 | background | background | background | background |
| ENSG000002258818.3 | -1.040456712 | background | background | background | background |
| ENSG000002259171.1 | -1.005519197 | background | background | background | background |
| Gene ID       | Expression Value | Background | Backgroud | Backgroud | Backgroud |
|--------------|------------------|------------|-----------|-----------|-----------|
| ENSG00000261701.6 | -1.032095514     | background | background | background | background |
| ENSG00000262655.3  | 1.572697026      | 5          | background | background | background |
| ENSG00000266964.5   | -2.514191667     | background | background | background | background |
| ENSG00000270024.5   | -5.070889695     | background | background | background | background |
| ENSG00000273047.1   | -1.521236027     | NA         | NA        | NA        | background |
| ENSG00000275152.4   | -1.463161211     | background | background | background | background |
| ENSG00000275832.4   | 1.386626512      | background | background | background | background |
| ENSG00000276076.4   | -2.950416152     | NA         | background | background | background |
| ENSG00000278558.4   | -1.337197504     | background | background | NA        | background |
| ENSG00000282936.1   | 1.018669505      | NA         | NA        | NA        | background |
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| ENSG00000283189.2   | -1.356673443     | background | background | background | background |
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| ENSG00000003987.13  | -1.175692136     | background | background | 5         | 4         |
| ENSG00000004777.18  | -1.723910977     | background | background | background | background |
| ENSG00000005448.16  | -1.049276699     | background | background | background | background |
| ENSG00000005513.9   | 1.448609611      | background | background | background | background |
| ENSG00000006652.13  | 1.392499553      | background | background | background | background |
| ENSG00000007255.10  | -1.05065993      | background | background | background | background |
| ENSG00000014914.20  | -1.231983847     | background | background | 5         | 5         |
| ENSG00000019414.20  | 1.1139462       | background | background | background | background |
| ENSG00000020633.18  | 1.022891136     | background | background | background | background |
| ENSG00000023909.9   | 1.056343664     | 5          | background | background | background |
| ENSG00000026297.15  | -1.130629124    | background | background | background | background |
| ENSG00000028277.21  | 1.103945126     | background | background | background | background |
| ENSG00000031081.10  | 1.653195681     | background | background | 5         | 4         |
| ENSG00000040608.13  | -1.153917332    | NA         | background | background | background |
| ENSG00000047365.11  | 2.127438037     | 5          | background | background | background |
| ENSG00000047457.13  | -1.078154212    | 5          | background | 5         | 5         |
| ENSG00000049130.14  | 1.0194847       | background | background | background | background |
| ENSG00000052344.15  | -1.293652892    | background | background | background | background |
| ENSG00000055957.10  | -1.008326057    | background | background | background | background |
| ENSG00000058333.15  | 1.550579328     | background | background | 5         | 4         |
| ENSG00000059804.15  | -1.305110306    | background | background | background | background |
| ENSG00000061656.9   | -2.294744899    | background | background | background | background |
| ENSG00000064687.12  | -1.324267141    | background | background | background | background |
| ENSG00000064787.13  | -1.332046328    | background | background | background | background |
| ENSG00000065325.12  | -1.968046125    | background | background | background | background |
| ENSG00000069667.15  | -1.042782355    | background | background | 4         | 4         |
| ENSG00000070915.9   | -2.817090081    | background | background | background | background |
| ENSG00000071205.11  | 1.608434064     | background | background | background | background |
| ENSG000000072182.12 | 1.809302222 | background | background | background | background |
|---------------------|-------------|------------|------------|------------|------------|
| ENSG000000078401.6  | 1.070759178 | background | background | background | background |
| ENSG000000079308.16 | -1.550693535 | background | background | background | background |
| ENSG000000079393.20 | 2.367263644 | background | background | background | background |
| ENSG000000080293.9  | -2.464772433 | background | background | background | background |
| ENSG000000081041.8  | 1.110579215 | background | background | background | background |
| ENSG000000081051.7  | -1.235498843 | background | background | background | background |
| ENSG000000086159.12 | -2.922430322 | background | background | background | background |
| ENSG00000088756.12  | 1.870919082 | background | background | background | background |
| ENSG00000089356.18  | 1.543248264 | background | background | background | background |
| ENSG00000091513.14  | -1.322500403 | background | background | background | background |
| ENSG00000092607.13  | -1.072334875 | background | background | background | background |
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| ENSG00000099866.14  | 1.369275157 | background | background | background | background |
| ENSG00000099553.9   | -1.306968214 | background | background | background | background |
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| ENSG00000100290.2   | 1.041606133 | background | background | background | background |
| ENSG00000100307.12  | -1.244045684 | background | background | background | background |
| ENSG00000100342.20  | -1.589596467 | background | background | background | background |
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| ENSG00000100628.11  | 1.396167182 | background | background | background | background |
| ENSG00000100665.11  | -1.323610242 | background | background | background | background |
| ENSG00000101000.5   | 1.382470362 | NA         | background | background | background |
| ENSG00000101162.3   | -1.947828884 | background | background | background | background |
| ENSG00000101197.12  | 1.984306928 | background | background | background | background |
| ENSG00000101200.5   | -2.781261776 | background | background | background | background |
| ENSG00000101210.10  | -1.139366657 | background | background | background | background |
| ENSG00000101230.5   | 1.260199157 | background | background | background | background |
| ENSG00000104055.15  | 1.222268230 | background | background | background | background |
| ENSG00000104081.13  | -1.146796215 | background | background | background | background |
| ENSG00000104356.10  | 1.035716853 | background | background | background | background |
| ENSG00000104419.14  | -2.651612071 | background | background | background | background |
| ENSG00000104537.16  | -1.564801817 | background | background | background | background |
| ENSG00000104765.15  | -1.584102595 | background | background | background | background |
| ENSG00000104804.7   | -1.919173541 | background | background | background | background |
| ENSG00000104856.13  | 1.360211003 | background | background | background | background |
| Gene ID     | log2 Fold Change | Annotation1 | Annotation2 | Annotation3 | Annotation4 |
|------------|-----------------|-------------|-------------|-------------|-------------|
| ENSG00000105519.15 | 1.353660827 | background  | background | background | 4           |
| ENSG00000105649.9  | -1.249267184  | background  | background | background | 5           |
| ENSG00000105668.7  | -1.705635827  | NA          | NA          | background  | 5           |
| ENSG00000105697.7  | -1.424600536  | NA          | background  | background  | 5           |
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| ENSG00000106003.12 | 1.465651481   | background  | background | background | 5           |
| ENSG00000106327.12 | 1.14968864    | background  | background | background | 5           |
| ENSG00000106853.18 | 1.136637      | background  | background | background | 5           |
| ENSG00000107159.12 | -1.67394368   | background  | background | background | 5           |
| ENSG00000107331.16 | -1.198685764  | background  | background | background | 5           |
| ENSG00000107738.19 | 1.55408777    | background  | background | background | 5           |
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| ENSG00000110243.11 | -1.524966889  | background  | background | background | 5           |
| ENSG00000110244.6  | -1.695097946  | background  | background | background | 5           |
| ENSG00000110245.11 | -2.022049226  | background  | background | background | 5           |
| ENSG00000110436.11 | 1.147157427   | background  | background | background | 5           |
| ENSG00000111452.12 | -1.306442185  | background  | background | background | 5           |
| ENSG00000111700.12 | -1.974221501  | background  | background | background | 5           |
| ENSG00000112299.7  | -1.565006616  | background  | background | background | 5           |
| ENSG00000112494.9  | -1.715787781  | background  | background | background | 5           |
| ENSG00000113083.13 | -1.583226096  | background  | background | background | 5           |
| ENSG00000113249.12 | -1.482414724  | background  | background | background | 5           |
| ENSG00000113369.8  | 1.147157427   | background  | background | background | 5           |
| ENSG00000114268.11 | -1.953288069  | background  | background | background | 5           |
| ENSG00000114498.12 | 2.14459744    | 5           | background  | background | 5           |
| ENSG00000115085.13 | 1.555822217   | background  | background | background | 4           |
| ENSG00000115194.10 | -1.325200866  | background  | background | background | 5           |
| ENSG00000115590.13 | -1.029007273  | 5           | background  | background | 5           |
| ENSG00000115648.13 | 2.677027951   | background  | background | background | 4           |
| ENSG00000116254.17 | 2.378142927   | background  | background | background | 4           |
| ENSG00000116299.16 | 1.505692817   | background  | background | background | 3           |
| ENSG00000116701.14 | 2.389649345   | background  | background | background | 5           |
| ENSG00000116833.13 | 2.30299712    | background  | background | background | 4           |
| ENSG00000117834.12 | -1.033489425  | background  | background | background | 4           |
| ENSG00000117983.17 | 1.672485735   | background  | background | background | 5           |
| ENSG00000118520.14 | -2.004515615  | background  | background | background | 5           |
| ENSG00000118785.13 | 1.159904106   | background  | background | background | 5           |
| ENSG00000119938.8  | -1.494008105  | NA          | background  | background | 5           |
| ENSG00000120318.15 | 1.933837717   | background  | background | background | 5           |
| Accession   | Log2 Fold Change | p-value | Expression Category |
|-------------|------------------|---------|---------------------|
| ENSG00000120738.7 | 2.336646209 | NA      | 5                   |
| ENSG00000120833.13 | 1.04364229  | NA      | 5                   |
| ENSG00000120875.8  | 1.447608929  | NA      | 5                   |
| ENSG00000120937.8  | 1.217643444  | NA      | 5                   |
| ENSG000001212711.8  | 1.471473221  | NA      | 5                   |
| ENSG00000122877.15 | 2.801925548  | NA      | 4                   |
| ENSG00000122884.12 | -1.114519063 | NA      | 3                   |
| ENSG00000123999.4  | -1.543915978 | NA      | 5                   |
| ENSG00000124143.10 | 1.639522193  | NA      | 5                   |
| ENSG00000124253.10 | -2.36314619  | NA      | 4                   |
| ENSG00000124635.8  | 1.703189551  | NA      | 5                   |
| ENSG00000124713.5  | -1.80119411  | NA      | 5                   |
| ENSG00000124762.13 | 1.040842917  | NA      | 4                   |
| ENSG00000125629.14 | -1.042280287 | NA      | 5                   |
| ENSG00000125657.4  | 1.000227007  | NA      | 5                   |
| ENSG00000127528.5  | 1.953453273  | NA      | 5                   |
| ENSG00000127743.5  | 1.790197616  | NA      | 4                   |
| ENSG00000128011.4  | -1.84099886  | NA      | 5                   |
| ENSG00000128242.12 | -1.528733787 | NA      | 5                   |
| ENSG00000128564.6  | 2.229954283  | NA      | 5                   |
| ENSG00000128567.16 | 1.373724997  | NA      | 5                   |
| ENSG00000128645.14 | -1.101883016 | NA      | 5                   |
| ENSG00000129521.13 | -1.40845994  | NA      | 3                   |
| ENSG00000129946.10 | -1.07290459  | NA      | 5                   |
| ENSG00000130176.7  | 1.293360921  | NA      | 5                   |
| ENSG00000130513.6  | 1.317037915  | NA      | 5                   |
| ENSG00000130561.16 | 2.415042346  | NA      | 5                   |
| ENSG00000130598.15 | -1.560704377 | NA      | 5                   |
| ENSG00000130653.15 | -2.026702016 | NA      | 4                   |
| ENSG00000130783.13 | 1.676695039  | S       | 5                   |
| ENSG00000130821.15 | -1.600640934 | NA      | 5                   |
| ENSG00000130822.15 | 3.253034952  | NA      | 5                   |
| ENSG00000130844.16 | -1.056108211 | NA      | 4                   |
| ENSG00000131482.9  | -3.01072505  | NA      | 5                   |
| ENSG00000131746.12 | 1.747139119  | NA      | 5                   |
| ENSG00000131781.12 | -1.04546315  | NA      | 4                   |
| ENSG00000132026.13 | -2.175366386 | NA      | 5                   |
| ENSG00000132510.10 | 1.113298002  | NA      | 5                   |
| ENSG00000132563.15 | 1.141496139  | NA      | 5                   |
| ENSG00000132744.7  | -1.937255528 | NA      | 5                   |
| ENSG00000133067.17 | 1.149498855  | NA      | 5                   |
| Gene ID          | Log2 Fold Change | p-value | Background | Background | Background | Background | Background | Background |
|------------------|------------------|---------|------------|------------|------------|------------|------------|------------|
| ENSG00000133687.15 | 1.044993207      |         | background | background | background | background | background | 4          |
| ENSG00000134013.15 | -1.739195897     |         | background | background | 5          | 4          |            |            |
| ENSG00000134107.4  | -1.336161397     |         | background | background | background | background | background |            |
| ENSG00000134363.11 | 1.08784731       |         | NA         | background | 5          | 5          |            |            |
| ENSG00000134762.16 | 1.431481969      |         | background | background | 5          | 4          |            |            |
| ENSG00000135097.6  | 1.08296084       |         | background | background | background | background |            |            |
| ENSG00000135517.6  | 1.475384222      |         | NA         | background | background | background |            |            |
| ENSG00000135625.7  | 2.93129366       |         | background | background | background | background |            |            |
| ENSG00000135636.13 | -3.783672766     |         | background | background | 4          |            |            |            |
| ENSG00000136378.14 | 2.079930015      |         | background | background | 5          |            |            |            |
| ENSG00000136883.13 | -1.198586766     |         | background | background | 5          |            |            |            |
| ENSG00000137078.8  | -2.639390183     |         | background | background | background | background |            |            |
| ENSG00000137251.15 | 1.459087432      |         | background | background | background |            |            | 4          |
| ENSG00000137801.10 | 1.17009669       |         | background | background |            | 3          | 3          |            |
| ENSG00000138131.3  | 1.174792366      |         | background | background | background | background |            |            |
| ENSG00000138640.14 | -1.137496433     |         | 5          | background | background |            |            | 4          |
| ENSG00000138678.10 | 1.062771877      |         | background | background |            | 5          | 5          |            |
| ENSG00000138764.14 | -1.316811353     |         | background | background | background |            |            | 4          |
| ENSG00000138772.12 | 1.087303569      |         | background | background | background |            |            | 4          |
| ENSG00000138823.13 | -1.083451475     |         | background | background | background |            |            | 5          |
| ENSG00000139209.15 | -1.649181177     |         | 5          | background | background |            |            | 4          |
| ENSG00000139278.9  | 1.26703257       |         | background | background |            | 5          | 5          |            |
| ENSG00000139988.9  | 1.119956564      |         | background | background | background |            |            | 5          |
| ENSG00000140297.12 | 1.386447685      |         | 5          | background | background |            |            | 4          |
| ENSG00000140450.8  | 1.010665154      |         | background | background |            | 5          | 5          |            |
| ENSG00000140675.12 | -1.00593254      |         | background | background | background | background |            |            |
| ENSG00000140678.16 | -1.65514253      |         | background | background |            | 4          | 4          |            |
| ENSG00000140682.18 | 1.663933281      |         | background | background | background | background |            |            |
| ENSG00000140839.11 | -1.23480905      |         | background | background | background | background |            |            |
| ENSG00000140961.12 | 1.209677031      |         | background | background |            | 5          |            |            |
| ENSG00000141394.9  | 2.425835704      |         | background | background | background |            |            |            |
| ENSG00000142182.8  | -1.264225424     |         | background | background | background |            |            |            |
| ENSG00000142549.9  | -2.016326072     |         | NA         | background |            | 5          |            |            |
| ENSG00000142611.16 | -1.989170665     |         | background | background |            | 4          |            |            |
| ENSG00000142871.16 | 1.110883941      |         | background | background |            | background |            |            |
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| ENSG00000143217.8  | 1.136084416      |         | background | background | background |            |            |            |
| ENSG00000143434.15 | -1.561536631     |         | background | background | background |            |            |            |
| ENSG00000143590.13 | -1.067099719     |         | background | background |            | background |            |            |
| ENSG00000143632.14 | 3.839279704      |         | background | background |            | background |            |            |
| ENSG00000143786.7  | 1.308109963      |         | background | background |            | background |            | 3          |
| Ensembl ID     | Change        | Background | Background | Background | Length |
|---------------|---------------|------------|------------|------------|--------|
| ENSG00000143847.15 | -3.721869379  | background | background | background | 5      |
| ENSG00000144152.12 | -1.13938696   | background | background | background | 5      |
| ENSG00000144355.14 | 1.069381391   | background | background | background | 4      |
| ENSG00000145391.13 | 1.00370036    | background | background | background | 4      |
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| Gene ID   | Value          | Source | Background Value | Alignment |
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| ENSG00000169242.11 | -1.152053674 | background | background | 5 |
| ENSG00000169429.10 | 1.512063285 | background | background | 5 |
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| ENSG00000171223.5 | 1.247018408 | NA | background | 4 |
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| ENSG00000171903.16 | 1.382945062 | background | background | 4 |
| ENSG00000171992.12 | 1.70071892 | background | background | 5 |
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| ENSG00000172482.4 | -1.069384264 | background | background | 4 |
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| ENSG00000176014.12 | 1.101375072 | background | background | 3 |
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| ENSG00000177181.14 | -1.116898471 | NA         | background | background | 5          |
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| ENSG00000177374.12 | 1.713360134  | NA         | background | background | background |
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| Gene ID          | Value            | Adj P  | Log2 Fold Change | Stratum | Residues | Stratum | Stratum | Stratum |
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| ENSG00000232070.8 | 1.051679274      | background | background | 5        | 5        |
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| ENSG00000231274.5 | 1.932993006      | background | NA      | background | 5        |
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| ENSG00000248235.6 | -1.245712478     | background | background | background | 4        |
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| Gene ID | Description | Log2FoldChange | qValue | Background | Genotype | Note |
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| ENSG00000015413.9 | -1.331928534 | background | background | background | 5 | 5 |
| ENSG00000016391.10 | 1.691637076 | background | background | background | 5 | 5 |
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| ENSG00000043355.11 | 1.404027177 | background | background | background | 5 | 5 |
| ENSG00000044090.8 | -1.023656261 | background | background | background | 5 | 5 |
| ENSG00000044446.11 | -1.211707513 | background | background | background | 5 | 5 |
| ENSG00000047365.11 | 1.609008802 | background | background | background | 5 | 5 |
| ENSG00000047457.13 | -1.305868536 | background | background | background | 5 | 5 |
| ENSG00000047662.4 | 2.761466485 | background | background | background | 5 | 5 |
| ENSG00000048052.21 | 2.567281299 | background | background | background | 5 | 5 |
| Ensembl ID          | Value     | Column 1 | Column 2 | Column 3 | Column 4 | Count |
|---------------------|-----------|----------|----------|----------|----------|-------|
| ENSG000000049130.14 | 1.504278  | background | background | background |         | 4     |
| ENSG000000049239.12 | -1.3363   | background | background | background |         | 5     |
| ENSG000000049247.13 | 4.5932    | background | NA       | NA       |         |       |
| ENSG000000049323.15 | 2.7302    | background | background | background |         | 4     |
| ENSG000000050165.17 | 3.2037    | background | background | background |         | 5     |
| ENSG000000052344.15 | -1.3293   | background | background | background |         |       |
| ENSG000000052802.12 | -1.6571   | background | background | background |         |       |
| ENSG000000053108.16 | 2.0111    | background | background | background |         | 4     |
| ENSG000000054179.11 | -1.5024   | background | background | background |         |       |
| ENSG000000054277.13 | -1.1471   | background | background | background |         | 4     |
| ENSG000000054356.13 | -2.6839   | background | background | background |         | 5     |
| ENSG000000054598.6  | 1.4998    | NA       | background | background |         |       |
| ENSG000000055118.14 | 4.7552    | background | background | background |         | 5     |
| ENSG000000055957.10 | -1.8647   | background | background | background |         |       |
| ENSG000000056736.9  | -1.2349   | background | background | background |         | 4     |
| ENSG000000056998.19 | -1.3989   | background | background | background |         | 5     |
| ENSG000000057019.15 | 2.0436    | background | background | background |         | 5     |
| ENSG000000057468.6  | 5.4466    | background | background | background |         | 5     |
| ENSG000000057593.13 | -1.5298   | background | background | background |         |       |
| ENSG000000057657.15 | 3.0134    | background | background | background |         | 5     |
| ENSG000000057704.12 | 3.8693    | background | background | background |         | 5     |
| ENSG000000057757.9  | 1.0527    | background | background | background |         | 5     |
| ENSG000000059573.8  | -1.3044   | background | background | background |         | 5     |
| ENSG000000059588.9  | -1.1067   | background | NA       | background |         | 5     |
| ENSG000000059728.10 | 2.6673    | background | background | background |         | 5     |
| ENSG000000059758.7  | 1.0119    | background | background | background |         | 5     |
| ENSG000000059804.15 | -1.7907   | background | background | background |         | 5     |
| ENSG000000060566.13 | -1.0013   | background | background | background |         | 5     |
| ENSG000000062524.15 | 1.4103    | background | background | background |         |       |
| ENSG000000063207.12 | 4.0806    | background | background | background |         | 4     |
| ENSG000000064300.8  | 1.3879    | background | background | background |         |       |
| ENSG000000064547.13 | 1.7342    | background | background | background |         |       |
| ENSG000000064687.12 | -1.0409   | background | background | background |         |       |
| ENSG000000064763.10 | 1.3040    | background | background | background |         |       |
| ENSG000000064886.13 | 1.3331    | background | background | background |         | 5     |
| ENSG000000065320.8  | 2.8071    | background | background | background |         | 4     |
| ENSG000000065325.12 | -2.9013   | background | background | background |         | 5     |
| ENSG000000065361.14 | -1.3159   | background | background | background |         |       |
| ENSG000000065413.18 | 1.7646    | background | background | background |         | 3     |
| Ensembl ID | GRCh38 Position | Value   | Background | Background | Background | Background |
|------------|-----------------|---------|------------|------------|------------|------------|
| ENSG00000065485.19 | 122 | -1.373486759 | background | background | background | 5          |
| ENSG00000065618.18 | -1.373486759 | 7.494782917 | NA         | background | background | 4          |
| ENSG00000065675.14 | -1.373486759 | -1.574127176 | background | background | background | 5          |
| ENSG00000066056.13 | -1.373486759 | 2.665833128 | background | background | background | 5          |
| ENSG00000066382.16 | -1.373486759 | 2.523286009 | background | background | background | 4          |
| ENSG00000066468.22 | -1.373486759 | -2.124691431 | background | background | NA         | 4          |
| ENSG00000066697.14 | -1.373486759 | 1.067924191 | background | background | background | 5          |
| ENSG00000066813.14 | -1.373486759 | -1.618264057 | background | background | background | 5          |
| ENSG00000067057.16 | -1.373486759 | 3.073077675 | background | background | background | 4          |
| ENSG00000066079.7 | -1.373486759 | -1.169745148 | background | background | background | 5          |
| ENSG00000066933.15 | -1.373486759 | 1.237664251 | background | background | background | 4          |
| ENSG00000067078.14 | -1.373486759 | 1.328230798 | background | background | background | 4          |
| ENSG00000067798.14 | -1.373486759 | 5.628827675 | background | background | background | 5          |
| ENSG00000067992.12 | -1.373486759 | -1.415871929 | background | NA         | background | 5          |
| ENSG00000068028.17 | -1.373486759 | 1.237664251 | background | background | background | 4          |
| ENSG00000068078.17 | -1.373486759 | -1.169745148 | background | background | background | 4          |
| ENSG00000068079.7 | -1.373486759 | -1.134509017 | background | background | background | 4          |
| ENSG00000068366.19 | -1.373486759 | 2.130108101 | background | background | background | 5          |
| ENSG00000068976.13 | -1.373486759 | 4.254557183 | background | background | background | 5          |
| ENSG00000069020.18 | -1.373486759 | 1.414454348 | background | background | background | 4          |
| ENSG00000069431.11 | -1.373486759 | 2.355236548 | background | NA         | background | 4          |
| ENSG00000069696.6 | -1.373486759 | 2.86659521 | background | background | background | 5          |
| ENSG00000069812.11 | -1.373486759 | 2.616138119 | background | background | background | 5          |
| ENSG00000069869.15 | -1.373486759 | 1.200852556 | background | background | background | 5          |
| ENSG00000070031.3 | -1.373486759 | 2.839549066 | NA         | NA         | background | 5          |
| ENSG00000070122.19 | -1.373486759 | 2.32733597 | background | background | background | 5          |
| ENSG00000070190.12 | -1.373486759 | 3.1352559754 | background | background | background | 5          |
| ENSG00000070388.11 | -1.373486759 | 3.916968531 | background | background | background | 5          |
| ENSG00000070729.13 | -1.373486759 | -2.051904468 | background | background | background | 5          |
| ENSG00000070731.10 | -1.373486759 | 3.388544708 | background | background | background | 5          |
| ENSG00000070778.12 | -1.373486759 | 1.24611976 | background | background | background | 5          |
| ENSG00000070915.9 | -1.373486759 | -2.399159805 | background | background | background | 5          |
| ENSG00000072195.14 | -1.373486759 | 1.238082197 | background | background | background | 5          |
| ENSG00000072571.19 | -1.373486759 | -1.06050129 | background | background | background | 5          |
| ENSG00000072657.8 | -1.373486759 | 3.842000462 | background | background | background | 5          |
| ENSG00000072786.12 | -1.373486759 | 1.157381512 | background | background | background | 5          |
| ENSG00000072858.10 | -1.373486759 | 3.064773051 | background | background | background | 5          |
| ENSG00000073008.14 | -1.373486759 | 1.007778862 | background | background | background | 5          |
| ENSG00000073067.13 | -1.373486759 | -1.252221246 | background | background | background | 5          |
| Gene ID     | Value     | Background Color | Background Color | Background Color | Background Color |
|------------|-----------|------------------|------------------|------------------|------------------|
| ENSGO00000073111.13 | -1.03599609 | background         | background         | background         | background         |
| ENSGO00000073605.18 | 1.445523009 | background         | background         | background         | background         |
| ENSGO00000073711.10 | 1.72990346  | background         | background         | background         | background         |
| ENSGO00000074047.21 | 3.488543807 | background         | background         | background         | background         |
| ENSGO00000074211.13 | -1.783723566 | background         | background         | background         | background         |
| ENSGO00000074317.10 | 5.355034616 | background         | background         | background         | background         |
| ENSGO00000074416.13 | 2.072731851 | background         | background         | background         | background         |
| ENSGO00000074660.15 | 3.469193931 | background         | background         | background         | background         |
| ENSGO00000075223.13 | 1.314066147 | background         | background         | background         | background         |
| ENSGO00000075303.12 | -1.0697094  | background         | background         | background         | background         |
| ENSGO00000075391.16 | 2.147077482 | background         | background         | background         | background         |
| ENSGO00000075461.5  | 1.67597865  | background         | background         | background         | background         |
| ENSGO00000075886.10 | 2.355966468 | background         | background         | background         | background         |
| ENSGO00000075945.12 | 1.009701096 | background         | background         | background         | background         |
| ENSGO00000076003.4  | -1.025248546 | background         | background         | background         | background         |
| ENSGO00000076067.12 | 1.767798361 | background         | background         | background         | background         |
| ENSGO00000076344.15 | 7.518140386 | background         | background         | background         | background         |
| ENSGO00000076356.6  | 2.123671962 | background         | background         | background         | background         |
| ENSGO00000077092.18 | 2.617202152 | background         | background         | background         | background         |
| ENSGO00000077238.13 | 2.03465516  | background         | background         | background         | background         |
| ENSGO00000077616.10 | -1.178714612 | background         | background         | background         | background         |
| ENSGO00000078018.19 | 5.026691034 | background         | background         | background         | background         |
| ENSGO00000078114.18 | 4.15488873  | background         | background         | background         | background         |
| ENSGO00000078328.20 | 4.19630279  | background         | background         | background         | background         |
| ENSGO00000078795.16 | 2.39756509  | background         | background         | background         | background         |
| ENSGO00000078814.15 | 3.885455993 | background         | background         | background         | background         |
| ENSGO00000078898.6  | -1.96421231 | background         | background         | background         | background         |
| ENSGO00000078900.14 | -1.174987656 | background        | background         | background         | background         |
| ENSGO00000079263.18 | 4.927568973 | background         | background         | background         | background         |
| ENSGO00000079337.15 | 2.084927097 | background         | background         | background         | background         |
| ENSGO00000079393.20 | 1.792037471 | background         | background         | background         | background         |
| ENSGO00000079459.12 | -1.467372669 | background         | background         | background         | background         |
| ENSGO00000079557.4  | -2.042791924 | background         | background         | background         | background         |
| ENSGO00000079616.12 | -1.132875482 | background         | background         | background         | background         |
| ENSGO00000079739.15 | -1.685455967 | background         | background         | background         | background         |
| ENSGO00000080561.13 | 2.279164911 | background         | background         | background         | background         |
| ENSGO00000080618.13 | -1.089173444 | background         | background         | background         | background         |
| ENSGO00000080819.6  | -1.433836283 | background         | background         | background         | background         |
| ENSGO00000081051.7  | -2.081385079 | background         | background         | background         | background         |
| ENSGO00000081052.11 | 4.53477506  | NA                | background         | background         | background         |
| Gene | Value 1 | Value 2 | Value 3 | Value 4 | Value 5 |
|------|---------|---------|---------|---------|---------|
| ENSG00000081138.13 | 3.87652647 | background | background | background | 5 |
| ENSG00000081148.11 | 7.739560038 | background | background | background | 5 |
| ENSG00000081181.7 | 1.710976339 | background | background | background | 5 |
| ENSG00000081985.10 | 5.02677812 | 5 | background | background | 5 |
| ENSG00000082126.17 | 2.998698336 | background | background | background | 5 |
| ENSG00000082269.16 | 1.112431487 | 5 | background | background | 5 |
| ENSG00000083123.14 | -1.032669767 | background | background | background | 5 |
| ENSG00000083223.17 | 1.238789447 | background | background | background | 5 |
| ENSG00000083290.19 | 3.883518827 | 5 | background | background | 5 |
| ENSG000000834110.10 | -1.00521696 | background | background | background | 5 |
| ENSG000000834453.16 | 3.695726056 | background | background | background | 4 |
| ENSG000000834731.14 | 1.322694999 | background | background | background | 5 |
| ENSG000000834764.10 | 1.68154745 | background | background | background | 5 |
| ENSG000000835276.17 | 4.020065249 | background | background | background | 4 |
| ENSG000000835831.15 | 3.478499054 | background | background | background | 5 |
| ENSG000000835999.11 | -1.027810974 | background | background | background | 5 |
| ENSG000000836159.12 | -5.495329321 | NA | background | background | background |
| ENSG000000836300.15 | -1.110745631 | background | background | background | 4 |
| ENSG00000083704.16 | 2.857101662 | background | background | background | 5 |
| ENSG00000083704.7 | 3.124321166 | NA | background | background | 5 |
| ENSG00000083707.13 | 1.27489364 | background | background | background | 5 |
| ENSG00000083708.13 | 1.519529212 | background | background | background | 5 |
| ENSG000000837258.14 | 3.152318152 | background | background | background | 5 |
| ENSG000000837301.18 | -1.259026174 | background | background | background | 4 |
| ENSG000000837303.17 | 2.614746432 | background | NA | background | 5 |
| ENSG000000837494.15 | 5.085383037 | NA | background | background | 5 |
| ENSG000000837495.16 | 2.366760479 | background | background | background | 4 |
| ENSG000000838387.18 | 2.488096009 | 5 | background | background | 4 |
| ENSG000000838726.15 | 2.919241882 | NA | background | background | background |
| ENSG000000838756.12 | 3.631635734 | background | background | background | 4 |
| ENSG000000838826.17 | 1.797963334 | background | background | background | 5 |
| ENSG000000838926.13 | -1.28747369 | background | background | background | 5 |
| ENSG000000839327.14 | 2.180670751 | NA | background | background | 5 |
| ENSG000000839356.18 | -2.033134521 | background | background | background | 5 |
| ENSG000000839685.14 | -1.052572384 | background | background | background | 5 |
| ENSG000000839692.8 | 2.122910418 | background | background | background | 5 |
| ENSG000000839723.9 | 2.722707393 | background | background | background | 5 |
| ENSG000000839820.15 | -1.141248328 | background | background | background | 5 |
| ENSG00000090382.6 | -1.390276148 | background | background | background | 5 |
| ENSG00000090512.11 | -1.190831962 | background | background | background | 5 |
| CHROM | START | ENGS | VALUE | BG1 | BG2 | BG3 | BG4 |
|-------|-------|------|-------|-----|-----|-----|-----|
| 122   | 91128 | 122  | 3.15185794 | background | background | background | 5   |
| 122   | 91409 | 122  | 1.253108232 | background | background | background | 5   |
| 122   | 91490 | 122  | 1.369524655 | background | background | background | 5   |
| 122   | 91513 | 122  | -1.659071442 | background | background | background | 5   |
| 122   | 91644 | 122  | 0.03100747 | background | background | background | 4   |
| 122   | 91879 | 122  | 2.362575027 | background | background | background | 5   |
| 122   | 92051 | 122  | -1.278520797 | background | background | background | 5   |
| 122   | 92295 | 122  | 1.41936294 | background | background | background | 5   |
| 122   | 92529 | 122  | 1.38011557 | background | background | background | 5   |
| 122   | 92621 | 122  | -1.25490508 | background | background | background | 5   |
| 122   | 92850 | 122  | 2.182893656 | background | background | background | 5   |
| 122   | 92964 | 122  | -1.041941142 | background | background | background | 5   |
| 122   | 92969 | 122  | 5.693706861 | background | background | background | 5   |
| 122   | 95380 | 122  | -1.17060706 | background | background | background | 5   |
| 122   | 95539 | 122  | -1.428564634 | background | background | background | 5   |
| 122   | 95596 | 122  | 1.241339403 | background | background | background | 5   |
| 122   | 95752 | 122  | 3.67693246 | background | background | background | 5   |
| 122   | 95932 | 122  | -1.097381971 | background | background | background | 5   |
| 122   | 96088 | 122  | -1.01751576 | background | background | background | 5   |
| 122   | 96433 | 122  | 2.509488341 | background | background | background | 5   |
| 122   | 96872 | 122  | -1.409839177 | background | background | background | 4   |
| 122   | 99139 | 122  | 1.987446818 | background | background | background | 4   |
| 122   | 99194 | 122  | -1.436040364 | background | background | background | 5   |
| 122   | 99250 | 122  | 2.449935728 | background | background | background | 3   |
| 122   | 99284 | 122  | -1.010051739 | background | background | background | 5   |
| 122   | 99365 | 122  | 1.041997669 | background | background | background | 5   |
| 122   | 99785 | 122  | -1.052580081 | background | background | background | 5   |
| 122   | 99812 | 122  | 3.143683603 | background | background | background | 5   |
| 122   | 99822 | 122  | 3.187081428 | background | background | background | 5   |
| 122   | 99840 | 122  | 2.684917381 | background | background | background | 5   |
| 122   | 99860 | 122  | 2.621102234 | background | background | background | 5   |
| 122   | 99937 | 122  | -1.152536151 | background | background | background | 5   |
| 122   | 99953 | 122  | -2.022879202 | background | background | background | 5   |
| 122   | 99958 | 122  | 5.371965978 | background | background | background | 5   |
| 122   | 99982 | 122  | 2.940455213 | background | background | background | 5   |
| 122   | 99984 | 122  | 1.597865369 | background | background | background | 5   |
| 122   | 99998 | 122  | -1.159313191 | background | background | background | 5   |
| 122   | 99998 | 122  | 3.076442021 | NA | background | background | background |
| Accession | Gene ID     | Expression | Background | Background | Background |
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| ENSG00000100053.9 | 2.837830106 | background | background | background | 5          |
| ENSG00000100055.20 | 3.194300329 | background | background | background | 5          |
| ENSG00000100075.9 | -1.10336827 | background | background | background | background |
| ENSG00000100097.11 | 1.546798974 | background | background | background | background |
| ENSG00000100156.10 | 2.148304603 | NA         | background | background | background |
| ENSG00000100196.10 | -1.144249576 | background | background | background | background |
| ENSG00000100197.20 | 1.19779771  | background | background | background | background |
| ENSG00000100206.9 | -2.687292154 | background | background | background | 4          |
| ENSG00000100276.9 | 4.300254449 | background | background | background | background |
| ENSG00000100290.2 | 1.76394738  | background | background | background | background |
| ENSG00000100307.12 | -1.168107609 | background | background | background | background |
| ENSG00000100314.3 | 1.86758221  | background | background | background | 5          |
| ENSG00000100336.17 | 1.261605296 | background | background | background | 5          |
| ENSG00000100342.20 | -2.139127319 | background | background | background | 5          |
| ENSG00000100344.10 | -1.590325386 | background | background | background | background |
| ENSG00000100373.9 | -2.384635395 | background | background | background | background |
| ENSG00000100461.17 | 2.396003943 | background | background | background | 5          |
| ENSG00000100490.9 | 1.059276976 | background | background | background | 5          |
| ENSG00000100504.16 | -1.838428629 | background | background | background | 5          |
| ENSG00000100555.9 | 3.062086636 | background | background | background | 5          |
| ENSG00000100558.8 | 1.581091378 | background | background | background | 4          |
| ENSG00000100593.17 | -1.239262097 | background | background | background | background |
| ENSG00000100604.12 | 4.911788204 | background | background | background | 5          |
| ENSG00000100628.11 | 2.737306609 | background | background | background | 4          |
| ENSG00000100652.4 | 3.147782293 | background | background | background | 5          |
| ENSG00000100665.11 | -2.222142014 | background | background | background | background |
| ENSG00000100678.18 | 3.203790404 | background | background | NA         | 5          |
| ENSG00000100767.15 | 2.35119258  | background | background | background | 5          |
| ENSG00000100784.10 | -2.24771912  | background | background | background | 4          |
| ENSG00000100852.12 | 1.321234214 | background | background | background | 5          |
| ENSG00000100867.14 | -1.415688601 | background | background | background | background |
| ENSG00000100918.12 | 1.288263464 | background | background | background | 5          |
| ENSG00000101000.5 | 2.022443044 | NA         | background | background | background |
| ENSG00000101003.9 | -1.24188743  | background | background | background | 5          |
| ENSG00000101160.13 | 2.636589418 | background | background | background | 5          |
| ENSG00000101162.3 | -1.658755929 | background | background | background | background |
| ENSG00000101188.4 | 4.473928651 | background | background | background | 5          |
| ENSG00000101200.5 | -2.10395315  | background | background | background | background |
| ENSG00000101210.10 | 3.370396838 | background | background | background | background |
| ENSG00000101230.5 | 1.282272584 | background | background | background | 4          |
| 122 | ENSG00000101265.15 | 1.964644648 | 4 | background | background | 4 |
| 122 | ENSG00000101306.10 | 2.48698611 | background | background | background | 4 |
| 122 | ENSG00000101384.11 | -1.37235553 | background | background | background | 5 |
| 122 | ENSG00000101400.5 | -1.262095834 | background | background | background | 5 |
| 122 | ENSG00000101448.13 | 4.14594239 | background | background | background | 5 |
| 122 | ENSG00000101460.12 | -1.909036486 | background | background | background | 5 |
| 122 | ENSG00000101464.10 | -1.36453732 | background | background | background | 5 |
| 122 | ENSG00000101470.9 | 1.08843057 | background | background | background | 5 |
| 122 | ENSG00000101490.5 | -1.262095834 | background | background | background | 5 |
| 122 | ENSG00000101494.8 | 1.08843057 | background | background | background | 5 |
| 122 | ENSG00000101498.13 | 1.08843057 | background | background | background | 5 |
| 122 | ENSG00000101502.12 | 1.08843057 | background | background | background | 5 |
| 122 | ENSG00000101503.15 | 1.262095834 | background | background | background | 5 |
| 122 | ENSG00000101532.12 | 1.262095834 | background | background | background | 5 |
| 122 | ENSG00000101534.16 | 1.262095834 | background | background | background | 5 |
| 122 | ENSG00000101538.15 | 1.262095834 | background | background | background | 5 |
| 122 | ENSG00000101548.13 | 1.262095834 | background | background | background | 5 |
| 122 | ENSG00000101555.6 | 5.800274119 | background | background | background | 5 |
| 122 | ENSG00000101575.10 | 3.682665594 | background | background | background | 5 |
| 122 | ENSG00000101583.13 | 3.682665594 | background | background | background | 5 |
| 122 | ENSG00000101602.12 | 3.682665594 | background | background | background | 5 |
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| 122 | ENSG00000101632.12 | 3.682665594 | background | background | background | 5 |
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| 122 | ENSG00000101655.6 | 5.800274119 | background | background | background | 5 |
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| 122 | ENSG00000101692.8 | 2.110570441 | background | background | background | 5 |
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| 122 | ENSG00000101704.15 | 2.110570441 | background | background | background | 5 |
| 122 | ENSG00000101705.6 | 5.800274119 | background | background | background | 5 |
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| 122 | ENSG00000101720.9 | 3.682665594 | background | background | background | 5 |
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| 122 | ENSG00000101724.11 | 3.682665594 | background | background | background | 5 |
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| 122 | ENSG00000101726.12 | 3.682665594 | background | background | background | 5 |
| 122 | ENSG00000101727.15 | 3.682665594 | background | background | background | 5 |
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| 122 | ENSG00000101740.5 | 3.682665594 | background | background | background | 5 |
| 122 | ENSG00000101742.8 | 3.682665594 | background | background | background | 5 |
| 122 | ENSG00000101744.13 | 3.682665594 | background | background | background | 5 |
| 122 | ENSG00000101746.13 | 3.682665594 | background | background | background | 5 |
| Gene ID          | Value 1          | Value 2          | Value 3          | Value 4          |
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| ENSGO00000102996.4 | -1.021677479     | background       | background       | background       |
| ENSGO00000103043.14| 2.26060679       | background       | background       | background       |
| ENSGO00000103044.10| 2.428109364     | NA               | background       | background       |
| ENSGO00000103089.8 | 3.59419802       | 5 background     | background       | background       |
| ENSGO00000103154.9 | 4.623465782      | background       | background       | background       |
| ENSGO00000103175.10| 1.680342594      | background       | background       | background       |
| ENSGO00000103196.11| 1.152250319      | background       | background       | background       |
| ENSGO00000103375.10| 1.355136035      | background       | background       | background       |
| ENSGO00000103647.12| 2.34069402       | background       | background       | background       |
| ENSGO00000103723.12| 1.33803679       | background       | background       | background       |
| ENSGO00000103740.9 | 2.362080688      | background       | background       | background       |
| ENSGO00000103942.12| 1.847605247      | background       | background       | background       |
| ENSGO00000104055.15| 2.37112767       | background       | background       | background       |
| ENSGO00000104147.8 | -1.274821538     | background       | background       | background       |
| ENSGO00000104213.12| -2.019627275     | background       | background       | background       |
| ENSGO00000104312.7 | 1.286795106      | background       | background       | background       |
| ENSGO00000104415.13| 3.991171169      | background       | background       | background       |
| ENSGO00000104450.12| 1.197286529      | background       | background       | background       |
| ENSGO00000104537.16| -1.96595928      | background       | background       | background       |
| ENSGO00000104549.11| -1.464608895     | background       | background       | background       |
| ENSGO00000104635.13| -1.250316762     | background       | background       | background       |
| ENSGO00000104689.9 | 1.415447721      | background       | background       | background       |
| ENSGO00000104765.15| -2.011435043     | background       | background       | background       |
| ENSGO00000104823.8 | -1.343907077     | background       | background       | background       |
| ENSGO00000104825.16| 1.233518733      | background       | background       | background       |
| ENSGO00000104856.13| 1.179416421      | background       | background       | background       |
| ENSGO00000104870.12| -1.057243227     | NA               | background       | background       |
| ENSGO00000104872.10| -1.001302369     | background       | background       | background       |
| ENSGO00000104883.7 | 2.500173086      | background       | background       | background       |
| ENSGO00000104899.7 | 5.517463081      | background       | background       | background       |
| ENSGO00000104903.4 | 1.028711136      | background       | background       | background       |
| ENSGO00000104941.7 | 4.708334578      | background       | background       | background       |
| ENSGO00000105011.8 | -1.25362448      | background       | background       | background       |
| ENSGO00000105088.8 | 2.389856982      | background       | background       | background       |
| ENSGO00000105131.7 | 8.745499105      | background       | background       | background       |
| ENSGO00000105146.12| 1.342758576      | background       | background       | background       |
| ENSGO00000105204.13| 1.16324367       | background       | background       | background       |
| ENSGO00000105339.10| 1.91902036       | background       | background       | background       |
| ENSGO00000105369.9 | 3.859601831      | background       | background       | background       |
| ENSGO00000105398.3 | -1.12667135      | background       | background       | background       |
| ENSGO00000105464.3 | 2.506299648      | background       | background       | background       |
| Gene ID       | Value       | Background | Gene ID       | Value       | Background |
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| ENSG00000105499.13 | 1.868439911  | background | ENSG00000105519.15 | 1.115825792 | background |
| ENSG00000105523.3 | 4.063818808  | background | ENSG00000105538.9 | -1.07618142  | background |
| ENSG00000105552.14 | -1.05270875  | background | ENSG00000105642.15 | 3.759310702  | background |
| ENSG00000105643.9 | 1.28056709   | background | ENSG00000105649.9 | -1.898108278 | background |
| ENSG00000105668.7 | -2.250221693 | NA         | ENSG00000105687.13 | -1.373591845 | background |
| ENSG00000105680.4 | 2.323800648  | background | ENSG00000105825.11 | 1.463007224  | background |
| ENSG00000105825.10 | -1.769468485 | background | ENSG00000105875.13 | -1.85037012  | background |
| ENSG00000105880.4 | 3.323800648  | background | ENSG00000105889.14 | 3.295035777  | background |
| ENSG00000105929.15 | 1.892287064  | background | ENSG00000105982.16 | 1.487554886  | background |
| ENSG00000105991.7 | 1.44978602   | background | ENSG00000105996.6 | 3.026063735  | background |
| ENSG00000106070.17 | 2.876729779  | S          | ENSG00000106078.17 | 1.416910958  | background |
| ENSG00000106089.11 | 1.278114774  | background | ENSG00000106327.12 | -1.528388802 | background |
| ENSG00000106330.11 | -1.165097822 | background | ENSG00000106333.12 | -1.244479573 | background |
| ENSG00000106415.12 | 1.640874039  | background | ENSG00000106538.9 | -1.234644712 | background |
| ENSG00000106789.12 | -1.183925027 | background | ENSG00000106852.15 | 2.286988849  | background |
| ENSG00000106852.15 | 2.286988849  | background | ENSG00000106853.18 | 1.198019722  | background |
| ENSG00000107020.9 | -2.440221912  | background | ENSG00000107104.18 | -1.257034387 | background |
| ENSG00000107147.12 | 6.525361418  | background | ENSG00000107159.12 | -4.930804785 | background |
| ENSG00000107187.15 | 6.853858142  | background | ENSG00000107242.17 | -1.186773727 | background |
| ENSG00000107249.21 | 2.293511163  | background | ENSG00000107331.16 | -1.779978454 | background |
| ENSG00000107537.13 | -1.494010033 | background | ENSG00000107537.13 | -1.494010033 | background |
| Gene ID          | Value          | Description | Tag 1 | Tag 2 | Tag 3 |
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| ENSG00000107554.16 | 1.30250403     | background  | background | background | 4     |
| ENSG00000107736.19 | 3.132801214    | S           | background | background | 4     |
| ENSG00000107738.19 | 1.877450671    | background  | background | background | 5     |
| ENSG00000107742.12 | 1.096511699    | background  | background | background | 5     |
| ENSG00000107798.17 | -1.043054979   | background  | background | background | 5     |
| ENSG00000107816.17 | -1.02322142    | NA          | background | background | background |
| ENSG00000107831.12 | 4.997804027    | background  | background | background | background |
| ENSG00000107863.17 | 1.1363843     | background  | background | background | 5     |
| ENSG00000107984.9 | -1.26834369    | background  | background | background | background |
| ENSG00000108231.12 | -1.348342869   | background  | background | background | 5     |
| ENSG00000108244.16 | 1.358091803    | background  | background | background | 4     |
| ENSG00000108255.7 | 6.087157006    | background | NA          | background | 5     |
| ENSG00000108342.12 | 2.239766714    | background  | background | background | background |
| ENSG00000108370.16 | 1.441406641    | background  | background | background | 5     |
| ENSG00000108381.10 | 1.335165839    | background  | background | background | 5     |
| ENSG00000108405.3 | 2.394100413    | background  | background | background | background |
| ENSG00000108417.3 | 2.610811396    | background | NA          | background | background |
| ENSG00000108479.11 | -1.39689531    | background  | background | background | background |
| ENSG00000108510.9 | 1.116237678    | background  | background | background | 5     |
| ENSG00000108551.4 | 2.5877241      | background  | background | background | background |
| ENSG00000108556.7 | 1.344821408    | background  | background | background | 5     |
| ENSG00000108576.9 | -1.680291638   | background  | background | background | 5     |
| ENSG00000108669.16 | -1.206167931   | background  | background | background | 4     |
| ENSG00000108771.12 | 2.980947712    | background  | background | background | background |
| ENSG00000108813.10 | -2.352055336   | background  | background | background | background |
| ENSG00000108840.15 | -1.24058425    | background  | background | background | 5     |
| ENSG00000108854.15 | 1.693151984    | background  | background | background | 5     |
| ENSG00000108924.13 | -1.281408225   | background  | background | background | 5     |
| ENSG00000108932.11 | 1.462774584    | background  | background | background | background |
| ENSG00000108947.4 | 2.078616518    | S           | background | background | 5     |
| ENSG00000108984.13 | -2.382951035   | background  | background | background | 5     |
| ENSG00000109062.11 | -1.046774492   | background  | background | background | 5     |
| ENSG00000109063.14 | 2.052332258    | background  | background | background | 5     |
| ENSG00000109084.13 | -1.14207476    | background  | background | background | background |
| ENSG00000109089.7 | 1.038934017    | background  | background | background | 5     |
| ENSG00000109107.13 | -2.645000356   | background  | background | background | 5     |
| ENSG00000109181.11 | -1.892081357   | S           | background | background | 5     |
| ENSG00000109220.10 | 1.582414705    | background  | background | background | 5     |
| ENSG00000109321.10 | 4.220579674    | background  | background | background | background |
| ENSG00000109339.20 | 1.407549998    | background  | background | background | 4     |
| ENSG00000109390.11 | -1.551898066   | background  | background | background | background |
| Gene ID          | Value         | Annotation | Annotation | Annotation | Annotation |
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| ENSG00000109501.13 | -1.030066314  | background | background | background | 5          |
| ENSG00000109610.5  | -2.294731135  | NA         | background | background | background |
| ENSG00000109738.10 | -3.084122995  | background | background | background | 4          |
| ENSG00000109743.10 | 1.606530544   | background | background | background | 5          |
| ENSG00000109771.15 | 1.276231833   | background | background | background | 5          |
| ENSG00000110076.18 | 4.051057821   | background | background | background | 5          |
| ENSG00000110169.10 | -1.428385825  | background | background | background | background |
| ENSG00000110243.11 | -2.073260144  | background | background | background | 5          |
| ENSG00000110244.6  | -2.339028805  | background | background | background | background |
| ENSG00000110245.11 | -2.730523694  | background | background | background | background |
| ENSG00000110318.13 | 1.081905265   | background | background | background | 5          |
| ENSG00000110427.14 | 3.99952987    | background | background | background | 5          |
| ENSG00000110436.11 | -1.18645455   | background | background | background | 4          |
| ENSG00000110446.10 | -1.094019552  | background | background | background | background |
| ENSG00000110721.11 | -1.0564907    | background | background | background | 5          |
| ENSG00000110811.19 | -1.251306768  | background | background | background | background |
| ENSG00000110876.9  | 4.99952987    | NA         | background | background | background |
| ENSG00000110881.11 | -2.08178574   | background | background | background | background |
| ENSG00000110887.7  | -1.805137052  | background | background | background | 5          |
| ENSG00000110911.14 | -2.232884299  | 5          | background | background | 5          |
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| ENSG00000111291.8  | 1.725951472   | NA         | NA         | NA         | 5          |
| ENSG00000111348.8  | 2.612776757   | background | background | background | 5          |
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| ENSG00000111729.14 | 2.337475534   | 5          | background | background | 5          |
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| ENSG00000111859.16 | -1.512168306  | NA         | background | background | 5          |
| ENSG00000111962.7  | -2.142103552  | background | background | background | 4          |
| ENSG00000112033.13 | 1.2034458     | background | background | background | 5          |
| ENSG00000112053.13 | -1.520374484  | background | background | background | 5          |
| ENSG00000112137.17 | 2.289967133   | background | background | background | 3          |
| ENSG00000112149.9  | -1.683206811  | background | background | background | background |
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| Gene ID          | Value      | Background | Background | Background | Count |
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| ENSG00000112299.7  | 3.501875687  | background | background | background | 5     |
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| ENSG00000112406.4  | 1.413143819  | background | background | background | 5     |
| ENSG00000112494.9  | -2.640234762 | background | background | background | 5     |
| ENSG00000112541.13 | 5.506679188  | background | background | background | 4     |
| ENSG00000112599.8  | 2.26859863   | background | background | background |      |
| ENSG00000112619.7  | 3.28613225   | background | background | background | 5     |
| ENSG00000112667.12 | -1.102340007 | NA         | background | 5          |       |
| ENSG00000112706.11 | 3.104477036  | background | background | background | 4     |
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| ENSG00000112972.14 | -1.50443905  | 5          | background | background | 5     |
| ENSG00000113070.7  | 1.715549914  | background | background | background |      |
| ENSG00000113083.13 | -3.039680707 | background | background | background |      |
| ENSG00000113161.15 | -1.29015368  | background | background | background |      |
| ENSG00000113209.8  | -2.688156321 | NA         | background | background |      |
| ENSG00000113319.12 | 1.71575791   | background | background | background | 4     |
| ENSG00000113327.16 | 1.51723606   | background | background | background | 5     |
| ENSG00000113368.11 | -1.178702719 | background | background | background |      |
| ENSG00000113369.8  | 1.847731139  | background | background | background |      |
| ENSG00000113494.16 | -1.406808556 | 5          | background | 5          |       |
| ENSG00000113721.13 | -1.061644041 | background | background | background | 5     |
| ENSG00000113742.12 | 1.77157007   | background | background | 5          |       |
| ENSG00000113889.11 | -1.019341246 | background | background | background | 4     |
| ENSG00000114023.15 | -1.637759149 | background | background | background | 5     |
| ENSG00000114115.9  | 2.890522615  | background | background | background |      |
| ENSG00000114124.2  | 3.728433284  | background | background | background | 5     |
| ENSG00000114268.11 | -2.096391061 | background | background | background | 5     |
| ENSG00000114450.9  | 1.411967602  | background | background | 5          |       |
| ENSG00000114529.12 | 1.576682462  | background | background | background | 5     |
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| ENSG00000114757.18 | 2.055049048  | background | background | 5          |       |
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| ENSG00000114841.17 | 2.064862604  | background | background | 4          |       |
| ENSG00000114948.12 | 2.111629525  | 5          | background | background | 5     |
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| ENSG00000115163.14 | -1.125920525 | background | background | 5          |       |
| ENSG00000115170.13 | 1.971040416  | background | background | 4          |       |
| ENSG00000115183.14 | 1.342768326  | background | background | 5          |       |
| ENSG00000115255.10 | -1.524997417 | background | background | background |      |
| GeneID   | Value     | Annotation   | Value     | Annotation   |
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| ENSG00000115257.15 | -1.178881655 | background | background | background |
| ENSG00000115266.11 | 1.88114841 | background | background | background |
| ENSG00000115267.5 | -1.256074392 | background | background | background |
| ENSG00000115271.10 | -1.44460597 | background | background | background |
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| ENSG00000115295.19 | 4.859407868 | background | background | background |
| ENSG00000115425.13 | -1.285077229 | background | background | background |
| ENSG00000115561.13 | 1.352899609 | background | background | background |
| ENSG00000115598.9 | 7.042136135 | background | background | background |
| ENSG00000115602.16 | 3.900426898 | background | background | background |
| ENSG00000115616.2 | 4.320551739 | background | background | background |
| ENSG00000115641.18 | 1.993679344 | background | background | background |
| ENSG00000115657.12 | -1.042991578 | background | background | background |
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| ENSG00000115850.9 | 8.121263058 | background | background | background |
| ENSG00000115919.14 | 1.303730107 | background | background | background |
| ENSG00000115977.18 | 1.243053837 | background | background | background |
| ENSG00000116014.9 | -1.364409947 | background | background | background |
| ENSG00000116032.5 | 3.206137245 | background | background | background |
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| ENSG00000116194.12 | -1.149779792 | background | background | background |
| ENSG00000116254.17 | 1.725171234 | background | background | background |
| ENSG00000116260.16 | 1.435814151 | background | background | background |
| ENSG00000116584.17 | 1.893653811 | background | background | background |
| ENSG00000116604.17 | 1.067770523 | background | background | background |
| ENSG00000116690.12 | 2.504335848 | background | background | background |
| ENSG00000116701.14 | 3.024148851 | background | background | background |
| ENSG00000116717.11 | 2.182937673 | NA | background | background |
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| ENSG00000116741.7 | 2.437818444 | background | background | background |
| ENSG00000116748.21 | 4.869477676 | background | background | background |
| ENSG00000116809.11 | 1.14682071 | background | background | background |
| ENSG00000117122.13 | -1.387189922 | background | background | background |
| ENSG00000117281.15 | 1.394799504 | NA | background | background |
| ENSG00000117407.16 | 2.062360853 | background | background | background |
| Gene ID         | Log2 Fold Change | Expression | Background 1 | Background 2 | Background 3 | Background 4 |
|----------------|------------------|------------|--------------|--------------|--------------|--------------|
| ENSG00000117472.9 | 1.012085764      | background | background   | background   | background   | background   |
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| ENSG00000131398.13 | -1.046201268  | background   | background   | background   | 5            |              |
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| ENSG00000131398.13 | -1.07290074   | background   | background   | 5            | background   |              |
| ENSG00000131480.8  | 2.289773753   | background   | background   | background   | background   | 5            |
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| ENSG00000134769.21 | 1.433288698 | background | background | background | 4 |
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| ENSG00000134909.18 | 1.488633119 | S | NA | 5 | 4 |
| ENSG00000134940.13 | 1.276700875 | NA | background | background | 5 |
| ENSG00000134954.14 | 5.576309776 | background | background | background | 4 |
| ENSG00000134962.6 | -1.866126142 | background | background | background | 5 |
| ENSG00000134986.13 | -1.426388974 | background | background | background | 4 |
| ENSG00000135046.13 | 1.106549545 | S | background | background | 5 |
| ENSG00000135052.16 | 1.786046664 | background | background | background | 5 |
| Gene Symbol | Chromosome Location | Log2 Fold Change | Annotation Type | Start | End |
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| ENSG00000135324.5 | 122 | -1.139079817 | background | background | background |
| ENSG00000135336.14 | 122 | -1.060782129 | background | background | 5 | 5 |
| ENSG00000135373.12 | 122 | 2.253233244 | background | background | background |
| ENSG00000135407.10 | 122 | 2.679274241 | 5 | background | NA | 5 |
| ENSG00000135426.15 | 122 | 1.670970691 | background | background | 4 |
| ENSG00000135436.8 | 122 | 1.245984723 | background | background | background |
| ENSG00000135469.13 | 122 | -1.44914785 | background | background | background |
| ENSG00000135480.15 | 122 | 2.691980473 | background | background | background |
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| ENSG00000135549.10 | 122 | 2.039575867 | NA | background | background | 5 |
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| ENSG00000136059.14 | 122 | -1.800234708 | background | background | background |
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| ENSG00000136457.9 | 122 | -1.017469289 | background | background | background |
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| ENSG00000136689.18 | 122 | -1.338237281 | background | background | background |
| ENSG00000136738.14 | 122 | 1.308737233 | background | background | 5 | 5 |
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| ENSG00000136918.7 | 6.898902718 | background | background | background | background |
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| ENSG00000137033.11 | 1.905107547 | background | background | background | background |
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| ENSG00000137491.14 | -1.29543552 | background | background | background | 5 |
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| 122      | ENSG00000138031.14 | 1.250138779 | background | background | background | background | background |
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| 122      | ENSG00000138119.16 | 5.213774502 | background | NA         | background | background | background |
| 122      | ENSG00000138160.5 | -1.12056648 | background | background | background | background | background |
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| 122      | ENSG00000138613.13 | 2.312661171 | background | background | background | background | background |
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| 122      | ENSG00000138769.10 | 7.259046362 | background | background | background | background | background |
| 122      | ENSG00000138772.12 | 2.90651898 | background | 5          | background | background | background |
| 122      | ENSG00000138778.11 | -1.852902599 | background | background | background | background | background |
| 122      | ENSG00000138796.16 | -1.293706529 | background | background | background | background | background |
| 122      | ENSG00000138823.13 | -2.178089665 | background | background | background | background | background |
| 122      | ENSG00000139055.6 | -1.326487628 | background | 5          | background | background | background |
| 122      | ENSG00000139112.10 | 1.05322518 | background | background | background | background | background |
| 122      | ENSG00000139117.13 | 1.209165491 | background | background | background | background | background |
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| 122      | ENSG00000139187.9 | 1.10950783 | background | background | background | background | background |
| 122      | ENSG00000139194.7 | -1.58427533 | background | 5          | background | background | background |
| 122      | ENSG00000139209.15 | -1.829666491 | background | 5          | background | background | background |
| 122      | ENSG00000139219.17 | -2.332532453 | background | background | background | background | background |
| 122      | ENSG00000139278.9 | 3.692224681 | background | background | background | background | background |
| Gene ID       | Gene Name | FPKM Value | Background | Background | Background | Background |
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| ENSG00000139289.13 |           | 1.188723305 | NA         | background | background | background |
| ENSG00000139364.10 |           | 1.6763934 | background | background | background | background |
| ENSG00000139428.11 |           | -1.51925436 | background | background | background | background |
| ENSG00000139508.14 |           | 5.726092236 | background | background | background | background |
| ENSG00000139537.10 |           | 1.375963572 | background | background | background | background |
| ENSG00000139540.11 |           | -1.0587209 | background | background | background | background |
| ENSG00000139567.12 |           | 4.293364199 | background | background | background | background |
| ENSG00000139625.12 |           | 1.808092054 | background | background | background | background |
| ENSG00000139629.15 |           | -2.263392207 | background | background | background | background |
| ENSG00000139722.6 |           | 1.067537317 | background | background | background | background |
| ENSG00000139832.4 |           | -1.055959458 | NA         | background | background | background |
| ENSG00000139880.19 |           | 3.425761713 | background | background | background | background |
| ENSG00000139890.9 |           | 4.68686077 | background | background | background | background |
| ENSG00000139926.15 |           | 1.080413304 | background | background | background | background |
| ENSG00000139946.9 |           | 3.758158965 | background | background | background | background |
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| ENSG00000140254.12 |           | 3.576187075 | background | background | background | background |
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| ENSG00000140379.7 |           | 2.729574139 | NA         | background | background | background |
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| ENSG00000140459.17 |           | 2.261936323 | background | background | background | background |
| ENSG00000140465.13 |           | 1.888076871 | background | background | background | background |
| ENSG00000140488.15 |           | 2.960962638 | background | background | background | background |
| ENSG00000140522.11 |           | 2.927257429 | background | background | background | background |
| ENSG00000140675.12 |           | 1.143663215 | background | background | background | background |
| ENSG00000140682.18 |           | 2.008431406 | background | background | background | background |
| ENSG00000140749.8 |           | 2.655233408 | background | background | background | background |
| ENSG00000140795.12 |           | 1.622511921 | background | background | background | background |
| ENSG00000140876.11 |           | -1.087565315 | background | background | background | background |
| ENSG00000140941.12 |           | 1.208116552 | background | background | background | background |
| ENSG00000140993.10 |           | 1.843046951 | NA         | background | background | background |
| ENSG00000141295.13 |           | -1.345292388 | background | background | background | background |
| ENSG00000141391.13 |           | -1.075984973 | background | background | background | background |
| ENSG00000141401.11 |           | -1.086138556 | background | background | background | background |
| ENSG00000141441.15 |           | 1.805035599 | background | background | background | background | 5 |
| ENSG00000141449.14 |           | 1.421055217 | background | background | background | background | 5 |
| Genomic Position | Log2 Fold Change | p-value | Benjamini-Hochberg FDR | q-value | Description |
|------------------|------------------|---------|------------------------|---------|-------------|
| 122              | 1.963552847      | background | background | background | 5 |
| 122              | -1.165236845     | background | background | background | 5 |
| 122              | -1.069821145     | background | background | background | 5 |
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| 122              | 2.692258919 NA   | background | background | 5 |
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| 122              | 3.120947773      | background | background | 5 |
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| 122              | -1.239240713     | background | background | 5 |
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| 122              | -2.256333169     | background | background | background | 4 |
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| 122              | 1.315243061 NA   | background | background | 4 |
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| 122              | -1.416770495     | background | background | 4 |
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|          | ENSG00000143434.15 | 1.208594791 | background | background | background | background |
|          | ENSG00000143552.9  | 2.925940756 | background | background | background | background |
|          | ENSG00000143590.13 | -1.826634768 | background | background | background | background |
|          | ENSG00000143631.10 | 4.307441909 | NA         | background | background | background |
|          | ENSG00000143632.14 | 1.313111963 | background | background | background | background |
|          | ENSG00000143768.12 | -1.774988248 | background | background | background | background |
|          | ENSG00000143786.7  | 2.143976864 | background | background | background | background |
|          | ENSG00000143816.7  | 4.00699263  | background | background | background | background |
|          | ENSG00000143839.14 | 4.226070222 | background | background | background | background |
|          | ENSG00000143847.15 | -3.600946081 | background | background | background | background |
|          | ENSG00000143851.15 | 1.87162228  | background | background | background | background |
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| 122 | ENSG00000145934.16 | 4.261448285  | background | background | background | 4          |
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| 122 | ENSG00000146376.10 | -1.161522512 | background | background | 5          | 3          |
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| 122 | ENSG00000147100.10 | 2.305760194  | background | background | background | 4          |
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| 122 | ENSG00000147155.10 | -1.041134224 | background | 5          | background | 5          |
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| 122 | ENSG00000147168.12 | 2.256452306  | background | background | background | background |
| Genomic ID | Value        | Background 1 | Background 2 | Background 3 | Score |
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| ENSG00000147255.18 | -1.053891822  | background   | background   | background   | 4     |
| ENSG00000147262.3  | -1.379937773  | NA           | NA           | NA           | background |
| ENSG00000147400.8  | -1.025327389  | background   | background   | background   | background |
| ENSG00000147437.9  | 1.700357595   | NA           | background   | background   | background |
| ENSG00000147459.17 | 1.183069375   | S background | background   | background   | 4     |
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| ENSG00000147676.13 | -1.225246131  | background   | background   | background   | 5     |
| ENSG00000147813.15 | 1.796005732   | background   | background   | background   | background |
| ENSG00000147873.5  | 4.792075885   | NA           | background   | background   | background |
| ENSG00000147883.10 | 3.989181408   | NA           | background   | background   | background |
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| ENSG00000148841.15 | 2.436941352   | background   | background   | background   | background |
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| ENSG00000149269.9  | 2.096575076   | background   | background   | background   | 4     |
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| Ensembl ID | Gene Start | Score | Gene End | Score |
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| ENSG00000149485.18 | 122 | -1.084633607 | background | background |
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| ENSG00000149527.17 | 122 | 4.218424238 | background | background |
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| ENSG00000149589.5 | 122 | 1.447275751 | background | background |
| ENSG00000149735.6 | 122 | -1.838076857 | background | background |
| ENSG00000149742.9 | 122 | -1.388726439 | background | background |
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| ENSG00000149809.14 | 122 | -1.593495582 | background | background |
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| ENSG00000150054.18 | 122 | -1.508025392 | background | background |
| ENSG00000150540.13 | 122 | -1.055468053 | background | background |
| ENSG00000150594.6 | 122 | 7.187068094 | background | background |
| ENSG00000150637.8 | 122 | 2.394413922 | background | background |
| ENSG00000150722.10 | 122 | 1.954738022 | background | background |
| ENSG00000150782.11 | 122 | 3.241915986 | background | background |
| ENSG00000151012.13 | 122 | 2.534675713 | background | background |
| ENSG00000151023.16 | 122 | 1.275697204 | background | background |
| ENSG00000151067.21 | 122 | 4.28185388 | background | NA |
| ENSG00000151360.9 | 122 | 3.471365408 | background | background |
| ENSG00000151376.16 | 122 | 4.171487401 | background | background |
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| ENSG00000151623.14 | 122 | -2.015730029 | background | background |
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| ENSG00000151746.13 | 122 | 1.50173704 | background | background |
| ENSG00000151849.14 | 122 | -1.118861371 | background | background |
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| Gene ID          | Alteration | Log2 Fold Change | Tissue Type | Expression | Tissue Type | Expression |
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| ENSG00000152137.6  | 2.524226242 | background       | background  | 5          | background  | background  |
| ENSG00000152154.10 | -1.99029674 | NA               | background  | 5          | background  | background  |
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| ENSG00000154485.4 | 6.135817761 | background | NA | background | background |
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| ENSG00000156113.22 | 3.583588436 | background | background | background | 4 |
| ENSG00000156127.6 | 4.257689961 | NA | background | background | background |
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| Gene ID     | Value       | Count | Count | Count | Count |
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| ENSG00000157214.13 | 2.344625449 | NA    | background | background | 5     |
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| ENSG00000158423.16 | -1.418077755 | background | background | background | 5     |
| ENSG00000158445.9 | 5.464105926 | NA    | background | background | 4     |
| ENSG00000158525.15 | 2.998926157 | background | NA    | background | 5     |
| ENSG00000158555.14 | -1.188074086 | background | background | background | 5     |
| ENSG00000158683.7 | 6.373582444 | background | background | background | 4     |
| ENSG00000158710.14 | 1.318617918 | background | background | background | 5     |
| Gene ID   | Row 1 Value | Row 2 Value | Row 3 Value | Row 4 Value | Row 5 Value |
|-----------|-------------|-------------|-------------|-------------|-------------|
| ENSG00000158747.13 | 1.398929562 | background  | background  | background  | background  |
| ENSG00000158825.5  | 3.177486819 | background  | background  | background  | 5           |
| ENSG00000158865.12 | 1.116531125 | background  | background  | background  | 5           |
| ENSG00000158955.10 | 2.641066689 | background  | background  | background  | 4           |
| ENSG00000159055.3  | -1.256865023 | background  | background  | background  | background  |
| ENSG00000159199.13 | -1.969260846 | background  | background  | background  | background  |
| ENSG00000159216.18 | 1.484769085 | background  | background  | background  | 4           |
| ENSG00000159224.4  | 2.050324327 | background  | background  | background  | background  |
| ENSG00000159261.10 | -3.432298238 | NA          | background  | background  | 4           |
| ENSG00000159588.14 | 4.082294351 | background  | background  | background  | background  |
| ENSG00000159618.15 | 5.194738138 | background  | background  | background  | 5           |
| ENSG00000159625.14 | -1.047266242 | background  | background  | background  | 5           |
| ENSG00000159650.8  | -2.143499629 | background  | background  | background  | background  |
| ENSG00000159685.10 | -1.098867526 | background  | background  | background  | 4           |
| ENSG00000159753.13 | 2.451226498 | background  | NA          | NA          | 5           |
| ENSG00000159842.14 | 1.479885493 | background  | background  | background  | 5           |
| ENSG00000159871.14 | 2.372633108 | NA          | background  | background  | background  |
| ENSG00000159885.13 | 1.135209193 | background  | background  | background  | 5           |
| ENSG00000160014.16 | -1.158011312 | background  | background  | background  | background  |
| ENSG00000160062.14 | 1.175182637 | background  | background  | 5           | 5           |
| ENSG00000160094.14 | -1.109641156 | background  | NA          | 5           | 4           |
| ENSG00000160097.16 | -1.347558471 | background  | background  | background  | 5           |
| ENSG00000160117.14 | 1.225870734 | background  | background  | background  | background  |
| ENSG00000160161.19 | 3.365348523 | background  | background  | background  | background  |
| ENSG00000160180.15 | -2.230307619 | NA          | background  | background  | background  |
| ENSG00000160182.2  | 2.767824122 | NA          | background  | background  | background  |
| ENSG00000160191.17 | -1.849869192 | background  | background  | background  | 4           |
| ENSG00000160211.15 | -2.073560808 | background  | background  | background  | 4           |
| ENSG00000160233.7  | -1.728443531 | NA          | background  | background  | background  |
| ENSG00000160255.17 | -1.924143119 | background  | background  | background  | 5           |
| ENSG00000160285.14 | -1.276062417 | background  | background  | background  | 5           |
| ENSG00000160298.17 | -1.090446479 | background  | background  | background  | background  |
| ENSG00000160318.6  | -1.742248832 | NA          | background  | background  | background  |
| ENSG00000160323.18 | -2.22637859 | background  | background  | background  | 5           |
| ENSG00000160360.12 | 1.894914895 | background  | background  | background  | background  |
| ENSG00000160469.16 | 1.333574113 | background  | background  | background  | 5           |
| ENSG00000160471.12 | 3.498825505 | background  | background  | 5           | 5           |
| ENSG00000160539.4  | -1.132302764 | NA          | background  | background  | 5           |
| ENSG00000160588.9  | 1.520867123 | background  | background  | 5           | 5           |
| ENSG00000160678.11 | -1.153396445 | background  | background  | background  | background  |
| ENSG00000160683.4  | 6.331817726 | NA          | background  | 5           | 5           |
| Gene Symbol       | Score      | Background | Rows | Columns |
|-------------------|------------|------------|------|---------|
| ENSG00000162601.9 | 1.041055481| background | 5    | 5       |
| ENSG00000162614.18 | 1.508245509 | background | 5   | 5       |
| ENSG00000162631.18 | 3.03083933  | background | 5   | 5       |
| ENSG00000162636.15 | -1.008718749 | background | 4  | 5       |
| ENSG00000162641.18 | 3.29613939  | background | 5   | 5       |
| ENSG00000162728.4  | 3.211680665 | background | 5   | 5       |
| ENSG00000162744.16 | 1.03798902  | background | 5   | 5       |
| ENSG00000162771.7  | 7.725314966 | background | 5   | 5       |
| ENSG00000162772.16 | 1.589015365 | background | 5   | 5       |
| ENSG00000162777.16 | 1.86868604  | background | 5   | 5       |
| ENSG00000162783.10 | 1.778269437 | background | 5   | 5       |
| ENSG00000162814.10 | 1.571639082 | background | 4   | 5       |
| ENSG00000162817.6  | -1.379124411 | background | 5   | 5       |
| ENSG00000162825.12 | 1.977524547 | background | NA  | 5       |
| ENSG00000162849.15 | 3.694993243 | background | 5   | 5       |
| ENSG00000162909.17 | 3.420768999 | background | 5   | 5       |
| ENSG00000162927.13 | 1.270178979 | background | 5   | 5       |
| ENSG00000162944.10 | 4.150298994 | background | 5   | 5       |
| ENSG00000162961.13 | -1.0066402  | background | 5   | 5       |
| ENSG00000162975.4  | 4.62409454  | background | 5   | 5       |
| ENSG00000162999.12 | -1.191862947 | background | 5   | 5       |
| ENSG00000163032.11 | -1.244158092 | background | 4   | 5       |
| ENSG00000163040.14 | 2.675810404 | background | 5   | 5       |
| ENSG00000163060.7  | 3.317330968 | background | 5   | 5       |
| ENSG00000163082.9  | 2.200941104 | background | 5   | 5       |
| ENSG00000163083.5  | 1.960225059 | background | 5   | 5       |
| ENSG00000163092.19 | 2.842843265 | background | 4   | 5       |
| ENSG00000163157.14 | 2.383965033 | background | 5   | 5       |
| ENSG00000163191.5  | 3.110704526 | background | 5   | 5       |
| ENSG00000163239.12 | 4.770941161 | background | 5   | 5       |
| ENSG00000163263.6  | 3.700043509 | background | 5   | 5       |
| ENSG00000163297.16 | 2.019832839 | background | 5   | 4       |
| ENSG00000163346.16 | -1.145818047 | background | 5   | 5       |
| ENSG00000163377.15 | -1.09248472 | background | 5   | 5       |
| ENSG00000163380.15 | 2.986997206 | background | 5   | 5       |
| ENSG00000163393.12 | 3.14003815  | background | 4   | 5       |
| ENSG00000163395.16 | 7.10256832  | background | 5   | 5       |
| ENSG00000163430.11 | 1.377071315 | background | 5   | 5       |
| ENSG00000163462.17 | -1.123749314 | background | NA  | 5       |
| ENSG00000163499.11 | 3.91517392  | background | 5   | 5       |
| ENSG00000163516.13 | -1.076017912 | background | 5   | 5       |
| Gene ID | Value   | Type   | Size | Stratum |
|--------|---------|--------|------|---------|
| ENSG00000163521.15 | -1.11814892 | background | 4   | background |
| ENSG00000163536.12 | -1.203654709 | background | 5   | background |
| ENSG00000163545.8 | 1.601412694  | background | 5   | background |
| ENSG00000163577.7 | 1.041562507  | background | 5   | background |
| ENSG00000163586.9 | -2.971930807 | background | 5   | background |
| ENSG00000163617.10 | 1.124856533  | background | 5   | background |
| ENSG00000163624.5 | -1.198091025 | background | 5   | background |
| ENSG00000163625.15 | 1.042149269  | background | 5   | background |
| ENSG00000163631.16 | -1.23663723   | background | 5   | background |
| ENSG00000163637.12 | 1.352619476   | background | 5   | background |
| ENSG00000163687.13 | -1.545144915  | background | 5   | background |
| ENSG00000163794.6 | 1.63299552    | background | 5   | background |
| ENSG00000163795.13 | 2.188223694   | background | 5   | background |
| ENSG00000163803.12 | 2.43395536    | background | 5   | background |
| ENSG00000163803.12 | 2.43395536    | background | 5   | background |
| ENSG00000163806.15 | 1.046567628   | background | 5   | background |
| ENSG00000163808.16 | -1.266608812  | background | 5   | background |
| ENSG00000163814.7 | 2.300021403   | background | 5   | background |
| ENSG00000163817.15 | 2.84196788    | background | 5   | background |
| ENSG00000163879.10 | 1.574079747   | background | 5   | background |
| ENSG00000163885.11 | 2.134022824   | background | 5   | background |
| ENSG00000163914.4 | -2.061305494  | background | 5   | background |
| ENSG00000163959.9 | -1.979872535  | background | 5   | background |
| ENSG00000164007.10 | -2.747713266  | background | 5   | background |
| ENSG00000164023.14 | 1.521462538   | background | 5   | background |
| ENSG00000164082.14 | 8.732103503   | background | 5   | background |
| ENSG00000164096.12 | -1.260856673  | background | 5   | background |
| ENSG00000164104.11 | -1.519113206  | background | 5   | background |
| ENSG00000164171.10 | 1.140735416   | background | 5   | background |
| ENSG00000164251.4 | 3.537704557   | background | 5   | background |
| ENSG00000164304.15 | 2.369007936   | background | 5   | background |
| ENSG00000164308.16 | -1.215621143  | background | 5   | background |
| ENSG00000164398.12 | -1.908743672  | background | 5   | background |
| ENSG00000164404.8 | 3.461302186   | background | 5   | background |
| ENSG00000164406.7 | -2.149635225  | background | 5   | background |
| ENSG00000164430.15 | 2.983069834   | background | 5   | background |
| ENSG00000164442.9 | -2.097420691  | background | 5   | background |
| ENSG00000164463.12 | 1.741852613   | background | 5   | background |
| ENSG00000164484.11 | -1.764805276  | background | 5   | background |
| ENSG00000164509.13 | 5.018484964   | background | 5   | background |
| ENSG00000164530.13 | 4.780199096   | background | 5   | background |
| Gene ID   | Value      | Column 1 | Column 2 | Column 3 | Column 4 |
|-----------|------------|----------|----------|----------|----------|
| ENSG00000164535.14 | 1.565563334 | background | background | background | 4 |
| ENSG00000164591.13 | 2.825625358 | background | background | background | 5 |
| ENSG00000164638.10 | -1.97031122 | background | background | background | 5 |
| ENSG00000164647.8 | 1.439710776 | background | background | background | 5 |
| ENSG00000164683.16 | 1.741345821 | background | background | background | 5 |
| ENSG00000164742.14 | -1.045267745 | background | background | background | 4 |
| ENSG00000164758.7 | -1.046253145 | NA | background | background | 5 |
| ENSG00000164794.8 | 3.081778627 | background | background | background | 5 |
| ENSG00000164796.17 | 1.883843895 | 5 | background | background | 4 |
| ENSG00000164823.9 | 1.064200181 | background | background | background | 5 |
| ENSG00000164849.9 | -1.096930511 | NA | background | background | 5 |
| ENSG00000164850.14 | -1.211899543 | NA | background | background | 5 |
| ENSG00000164885.12 | -1.92534169 | background | background | background | 5 |
| ENSG00000164896.19 | -1.047080122 | background | background | background | 5 |
| ENSG00000164946.19 | -1.396559477 | 5 | background | NA | 5 |
| ENSG00000164949.7 | 4.419085691 | background | background | background | 5 |
| ENSG00000164951.15 | 2.41733682 | NA | background | background | 5 |
| ENSG00000164972.12 | -1.96904626 | background | background | background | 5 |
| ENSG00000165046.12 | 3.501181579 | background | background | background | 5 |
| ENSG00000165105.9 | 2.181609792 | background | background | background | 5 |
| ENSG00000165188.13 | -1.44381742 | NA | background | background | 5 |
| ENSG00000165197.4 | 3.031778882 | background | background | background | 5 |
| ENSG00000165269.12 | 3.563020832 | background | background | background | 5 |
| ENSG00000165272.14 | 4.529736193 | background | background | background | 5 |
| ENSG00000165424.6 | -1.002514036 | NA | background | background | 5 |
| ENSG00000165471.6 | -1.10502475 | NA | background | background | 5 |
| ENSG00000165475.13 | -1.570929247 | background | background | background | 5 |
| ENSG00000165478.6 | -1.930462861 | background | background | background | 5 |
| ENSG00000165495.15 | 2.076806596 | background | background | background | 5 |
| ENSG00000165507.8 | -1.50651942 | NA | background | background | 5 |
| ENSG00000165516.10 | -1.225462875 | background | background | background | 5 |
| ENSG00000165553.4 | 5.926311592 | background | background | background | 5 |
| ENSG00000165555.9 | 1.182025706 | background | background | background | 5 |
| ENSG00000165591.6 | -1.992267611 | background | background | background | 5 |
| ENSG00000165626.16 | 1.63359652 | background | background | background | 5 |
| ENSG00000165716.10 | 2.290202017 | NA | background | background | 5 |
| ENSG00000165794.9 | 5.353056098 | background | background | background | 5 |
| ENSG00000165795.23 | -1.596261717 | background | background | background | 5 |
| ENSG00000165801.9 | -1.743215191 | background | background | background | 5 |
| ENSG00000165805.9 | 1.040156619 | background | background | background | 5 |
|------------------|--------------|------------|------------|------------|---|
| ENSG00000165821.11 | -1.19738823 | background | background | background | 5 |
| ENSG00000165828.14 | -1.128382461 | background | background | background | 5 |
| ENSG00000165863.16 | -1.50637888 | background | background | background | 5 |
| ENSG00000165879.8 | -1.396129676 | background | background | background | 5 |
| ENSG00000165899.10 | 4.12053216 | background | background | background | 5 |

### Additional Rows

| ENSG00000165917.9 | 3.34587719 | background | background | background | 5 |
|------------------|--------------|------------|------------|------------|---|
| ENSG00000165923.15 | 1.516307173 | background | background | background | 5 |
| ENSG00000165953.9 | -3.426903904 | background | background | background | 5 |
| ENSG00000165985.9 | 2.38432945 | background | background | background | 5 |
| ENSG00000166046.10 | 2.8166056 | background | background | background | 5 |
| ENSG00000166105.15 | 1.601780581 | background | NA | background | 5 |
| ENSG00000166145.14 | 2.023794148 | background | background | background | 5 |
| ENSG00000166167.17 | -1.02944075 | background | background | background | 5 |
| ENSG00000166173.10 | 3.96046578 | background | background | background | 5 |
| ENSG00000166250.11 | 1.468018716 | background | background | background | 5 |
| ENSG00000166268.10 | 1.989575762 | background | background | background | 5 |
| ENSG00000166317.11 | 2.978191217 | background | background | background | 5 |
| ENSG00000166343.9 | 2.056006574 | background | background | background | 5 |
| ENSG00000166347.18 | -1.12793452 | background | background | background | 5 |
| ENSG00000166401.14 | 3.156310398 | background | background | background | 5 |
| ENSG00000166446.14 | 2.24435854 | background | background | background | 5 |
| ENSG00000166535.19 | 2.65763365 | background | background | background | 5 |
| ENSG00000166546.13 | 2.57763508 | background | background | background | 5 |
| ENSG00000166558.10 | 3.68957413 | background | NA | NA | 5 |
| ENSG00000166573.5 | 1.72794993 | background | background | background | 5 |
| ENSG00000166575.16 | -1.127008093 | background | background | background | 5 |
| ENSG00000166589.12 | -2.148944543 | background | background | background | 5 |
| ENSG00000166592.11 | 3.046284142 | background | background | background | 5 |
| ENSG00000166596.14 | 2.877024693 | background | background | background | 5 |
| ENSG00000166644.13 | 1.24493264 | background | background | background | 5 |
| ENSG00000166707.10 | 2.93628731 | background | background | background | 5 |
| ENSG00000166780.10 | 4.44501401 | background | background | background | 5 |
| ENSG00000166783.21 | 1.17178171 | background | background | background | 5 |
| ENSG00000166796.11 | 3.111139145 | background | background | background | 5 |
| ENSG00000166803.11 | -1.066950299 | background | background | background | 5 |
| ENSG00000166819.11 | -1.09234502 | background | background | background | 5 |
| ENSG00000166821.8 | -1.286089524 | background | background | background | 5 |
| ENSG00000166896.7 | -1.163861782 | background | background | background | 5 |
| Gene ID   | Description | Value   | Columns | Rows |
|----------|-------------|---------|---------|------|
| ENSG00000166900.16 | 1.723759724 | background | background | background | 4 |
| ENSG00000166963.12 | 1.79491129 | background | background | background | 5 |
| ENSG00000166979.12 | 2.013311123 | background | background | background | 4 |
| ENSG00000166984.11 | -2.571508127 | background | background | background | 5 |
| ENSG00000167065.13 | 1.448187143 | NA | background | 4 |
| ENSG00000167103.11 | 3.668112422 | background | background | background | 5 |
| ENSG00000167105.7 | 2.835464279 | background | background | background | 5 |
| ENSG00000167107.12 | -1.075812437 | background | background | background | 5 |
| ENSG00000167118.10 | -2.35943723 | background | background | background | 5 |
| ENSG00000167165.18 | 2.540343824 | background | background | background | 4 |
| ENSG00000167207.12 | -1.970127147 | background | background | background | 5 |
| ENSG00000167244.18 | -1.248812717 | background | background | background | 5 |
| ENSG00000167508.11 | -1.303318642 | background | background | background | 5 |
| ENSG00000167548.14 | 1.019012989 | background | NA | background | 5 |
| ENSG00000167549.18 | 1.475832295 | background | background | background | 4 |
| ENSG00000167554.14 | 2.587005731 | background | background | background | 4 |
| ENSG00000167555.13 | 1.851581655 | background | background | background | 4 |
| ENSG00000167600.13 | 2.448030111 | background | background | background | 5 |
| ENSG00000167601.11 | 2.790390482 | background | background | background | 5 |
| ENSG00000167612.12 | 5.149124184 | background | background | background | 5 |
| ENSG00000167614.13 | -1.168420245 | background | background | background | 5 |
| ENSG00000167617.2 | 1.166741723 | NA | background | background | 5 |
| ENSG00000167618.9 | 2.975016556 | background | background | background | 5 |
| ENSG00000167642.12 | 2.36957298 | NA | background | background | 5 |
| ENSG00000167644.11 | 2.995492895 | background | background | background | 4 |
| ENSG00000167656.4 | -1.074025728 | NA | background | background | 5 |
| ENSG00000167664.8 | -3.507187835 | NA | background | background | 5 |
| ENSG00000167711.13 | -1.494996949 | background | background | background | 5 |
| ENSG00000167723.14 | 2.418311162 | background | background | background | 5 |
| ENSG00000167733.13 | 1.88504472 | background | background | background | 5 |
| ENSG00000167741.10 | -1.243235904 | background | background | background | 5 |
| ENSG00000167767.13 | 3.672160714 | background | background | background | 5 |
| ENSG00000167771.5 | -1.190324304 | background | background | background | 5 |
| ENSG00000167772.11 | -1.715781624 | background | background | background | 5 |
| ENSG00000167779.7 | 1.817448148 | background | background | background | 5 |
| ENSG00000167780.11 | -1.399275662 | background | background | background | 5 |
| ENSG00000167799.9 | -1.211073949 | background | background | background | 5 |
| ENSG00000167800.9 | -1.771248969 | background | background | background | 5 |
| ENSG00000167861.15 | 1.276599126 | background | background | background | 5 |
| ENSG00000167874.6 | 3.885758503 | NA | background | background | 5 |
| Gene ID      | Log2 Fold Change | p-value    | Adjusted p-value | q-value | Case 1 Count |
|-------------|-----------------|------------|------------------|---------|--------------|
| ENSG00000167889.12 | 2.939802992     | background | background        | 5       |
| ENSG00000167900.11 | -1.185330626    | background | background        | NA      |
| ENSG00000167941.2  | 5.073815573     | background | background        | 5       |
| ENSG00000167968.12 | 2.017994456     | background | background        | 5       |
| ENSG00000167984.17 | 1.629954043     | background | background        | 5       |
| ENSG00000168003.16 | 1.030729455     | background | background        | 5       |
| ENSG00000168060.15 | -1.349962242    | background | background        | 5       |
| ENSG00000168065.15 | 1.305325496     | background | background        | 5       |
| ENSG00000168077.13 | -1.895411926    | NA         | background        | NA      |
| ENSG00000168090.9  | -1.488648289     | background | background        | NA      |
| ENSG00000168140.4  | -1.330950909     | background | background        | NA      |
| ENSG00000168237.17 | -1.615998049     | background | background        | NA      |
| ENSG00000168263.8  | 2.89153969      | NA         | background        | NA      |
| ENSG00000168268.10 | -1.600653576     | background | background        | 5       |
| ENSG00000168348.3  | 5.236764888      | NA         | background        | NA      |
| ENSG00000168404.12 | -1.010385147     | background | background        | NA      |
| ENSG00000168453.14 | -1.19517495      | background | background        | NA      |
| ENSG00000168477.17 | 1.261309393     | background | background        | NA      |
| ENSG00000168490.13 | 2.427326368      | background | background        | NA      |
| ENSG00000168502.17 | 1.091970779     | background | background        | NA      |
| ENSG00000168505.6  | 2.994095539      | NA         | background        | NA      |
| ENSG00000168615.11 | 1.036573172     | background | background        | NA      |
| ENSG00000168679.17 | 1.480533567      | background | background        | NA      |
| ENSG00000168765.16 | -1.473287724    | background | background        | NA      |
| ENSG00000168785.7  | 2.356715647      | NA         | background        | NA      |
| ENSG00000168847.5  | 5.086589273      | NA         | background        | NA      |
| Chromosome | Ensemble ID  | Score  | Annotation 1 | Annotation 2 | Annotation 3 |
|------------|-------------|--------|--------------|--------------|--------------|
| 122        | ENSG00000169194.9 | 4.168575214 | NA           | background   | background   |
| 122        | ENSG00000169213.6 | 3.259721313 | background   | background   | background   |
| 122        | ENSG00000169242.11 | -1.697009892 | 5            | background   | background   |
| 122        | ENSG00000169246.16 | 1.214599007 | background   | background   | background   |
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| Ensembl | Gene ID | ENSG00000178386.12 | 1.394782258 | background | background | background | background | 5 |
| Ensembl | Gene ID | ENSG00000178404.9 | 5.37744248 | background | background | background | background | 4 |
| Ensembl | Gene ID | ENSG00000178467.17 | 6.590878882 | background | background | background | background | 4 |
| Ensembl | Gene ID | ENSG00000178531.5 | 1.588079932 | NA | background | background | background | background |
| Ensembl | Gene ID | ENSG00000178607.15 | 2.090104498 | background | background | background | background | 5 |
| Ensembl | Gene ID | ENSG00000178645.12 | 3.760440888 | NA | background | background | background | 5 |
| Ensembl | Gene ID | ENSG00000178685.13 | -1.330597375 | background | background | background | background | 5 |
| Ensembl | Gene ID | ENSG00000178690.2 | 2.214982476 | NA | background | background | background | background |
| Ensembl | Gene ID | ENSG00000178732.5 | 8.016411544 | NA | background | background | background | background |
| Ensembl | Gene ID | ENSG00000178734.5 | 3.469541567 | background | background | background | background | background |
| Ensembl | Gene ID | ENSG00000178752.15 | 4.27194536 | background | NA | NA | background | background |
| Ensembl | Gene ID | ENSG00000178764.7 | -1.11959964 | background | background | background | background | 5 |
| Ensembl | Gene ID | ENSG00000178773.14 | 2.385915035 | background | background | background | background | 5 |
| Ensembl | Gene ID | ENSG00000178802.17 | -1.110330201 | background | background | background | background | 5 |
| Ensembl | Gene ID | ENSG00000178821.12 | -1.403764663 | background | background | background | background | 5 |
| Ensembl | Gene ID | ENSG00000178892.16 | 1.390530224 | background | background | background | background | background |
| Ensembl | Gene ID | ENSG00000178999.12 | -1.177855417 | background | background | background | background | background |
| Ensembl | Gene ID | ENSG00000179046.8 | 1.210538984 | background | background | background | background | background |
| Ensembl | Gene ID | ENSG00000179111.8 | 3.275557981 | background | NA | NA | background | background |
| Ensembl | Gene ID | ENSG00000179148.9 | 4.766738885 | background | background | background | background | background |
| Ensembl | Gene ID | ENSG00000179168.14 | 3.418805846 | background | background | background | background | background |
| Ensembl | Gene ID | ENSG00000179222.17 | -1.818934162 | background | background | background | background | 5 |
| Ensembl | Gene ID | ENSG00000179240.9 | -1.433922216 | NA | background | background | background | 5 |
| Ensembl | Gene ID | ENSG00000179242.15 | 3.275686447 | background | background | background | background | 5 |
| Ensembl | Gene ID | ENSG00000179256.2 | -1.913083433 | NA | background | background | background | 5 |
| Ensembl | Gene ID | ENSG00000179399.14 | -4.913847853 | background | background | background | background | 4 |
| Ensembl | Gene ID | ENSG00000179403.11 | -1.08404748 | NA | background | background | background | background |
| Gene          | Log2FC  | EA    | MD   | SE    | EA   |
|--------------|---------|-------|------|-------|------|
| ENSG00000179431.6 | 1.34062865 | NA    | background | background | background |
| ENSG00000179532.12 | 1.28310846 | background | background | background | 5 |
| ENSG00000179564.3 | 1.200576795 | NA | background | background | 4 |
| ENSG00000179580.9 | 1.263201561 | NA | background | background | 5 |
| ENSG00000179600.3 | 4.524850739 | background | NA | NA | 5 |
| ENSG00000179604.9 | -1.263201561 | NA | background | background | 5 |
| ENSG00000179636.14 | -2.72521154 | background | background | background | background |
| ENSG00000179674.3 | 3.91533164 | NA | background | background | background |
| ENSG00000179694.13 | 5.17136482 | background | background | background | background |
| ENSG00000179715.11 | -1.263201561 | NA | background | background | 5 |
| ENSG00000179715.12 | 3.22288011 | NA | background | background | background |
| ENSG00000179726.4 | 6.145567847 | NA | background | background | background |
| ENSG00000179736.7 | 3.05844123 | NA | background | background | background |
| ENSG00000179846.9 | 3.61794787 | NA | background | background | background |
| ENSG00000179913.10 | 2.151788699 | background | background | background | 5 |
| ENSG00000179915.22 | 5.773825277 | background | background | background | 4 |
| ENSG00000179921.14 | 5.17136482 | background | background | background | background |
| ENSG00000179954.15 | 3.22288011 | NA | background | background | background |
| ENSG00000180043.11 | 5.851890178 | background | background | background | background |
| ENSG00000180245.4 | 4.602504166 | background | background | background | 5 |
| ENSG00000180287.16 | 3.588494129 | background | background | background | 5 |
| ENSG00000180340.6 | -1.43587938 | background | background | background | background |
| ENSG00000180353.10 | 7.15719506 | background | background | background | 5 |
| ENSG00000180432.5 | -2.28753659 | NA | background | background | 5 |
| ENSG00000180509.11 | 1.638871966 | NA | background | background | 5 |
| ENSG00000180573.9 | 2.430174896 | NA | background | background | 5 |
| ENSG00000180596.7 | 1.742681169 | NA | background | background | background |
| ENSG00000180616.8 | 1.03764796 | NA | background | background | 5 |
| ENSG00000180644.7 | 1.791821997 | NA | background | background | background |
| ENSG00000180720.7 | 2.595267437 | NA | background | background | background |
| ENSG00000180767.9 | -1.655710113 | background | background | background | background |
| ENSG00000180834.7 | 2.36974271 | background | background | background | 4 |
| ENSG00000180881.19 | 1.443975756 | background | background | background | 4 |
| ENSG00000180884.9 | -1.123985471 | background | background | background | background |
| ENSG00000180911.12 | 1.19764354 | background | background | background | 5 |
| ENSG00000180902.17 | -1.003911369 | background | background | background | background |
| ENSG00000180914.10 | 2.42562798 | background | background | background | 5 |
| ENSG00000180929.5 | 3.891412785 | NA | background | background | background |
| ENSG00000180934.6 | 2.00773552 | NA | background | background | 5 |
| ENSG00000180953.11 | 1.04942945 | background | background | background | 5 |
| ENSG00000180964.16 | -1.026397367 | NA | background | background | background |
| Chromosome | Gene ID          | Value 1        | Value 2        | Value 3        | Value 4        | Value 5        |
|------------|-----------------|----------------|----------------|----------------|----------------|----------------|
| 122        | ENSG00000180999.10 | 1.546849687    | background     | background     | background     | 5              |
| 122        | ENSG00000181016.9 | 3.774343849    | NA             | background     | background     | 2              |
| 122        | ENSG00000181104.6 | 1.688330279    | NA             | background     | background     | 5              |
| 122        | ENSG00000181274.6 | -1.028629794   | NA             | background     | background     | 5              |
| 122        | ENSG00000181322.13 | 2.966453689   | background     | background     | background     | 4              |
| 122        | ENSG00000181350.11 | 1.390150097    | NA             | background     | background     | 5              |
| 122        | ENSG00000181392.14 | -1.061978268   | background     | background     | background     | 5              |
| 122        | ENSG00000181409.11 | -1.255023      | background     | background     | background     |                |
| 122        | ENSG00000181458.10 | -1.358615105   | background     | background     | background     | 5              |
| 122        | ENSG00000181577.15 | -1.696461549   | background     | background     | background     | 5              |
| 122        | ENSG00000181649.5 | 1.337539559    | NA             | background     | background     | 5              |
| 122        | ENSG00000181722.16 | 1.49956783     | background     | background     | 5              |
| 122        | ENSG00000181744.8 | -1.260702971   | background     | background     | background     | 5              |
| 122        | ENSG00000181785.2 | 1.154230286    | NA             | NA             | NA             | 5              |
| 122        | ENSG00000181847.11 | 6.321568299    | background     | background     | background     | 5              |
| 122        | ENSG00000181856.14 | -1.047083214   | background     | background     | background     | 5              |
| 122        | ENSG00000181885.18 | 2.557652115    | background     | background     | background     | 5              |
| 122        | ENSG00000181903.5 | 4.478560384    | NA             | background     | background     |                |
| 122        | ENSG00000181982.18 | -1.161022961   | background     | background     | background     | 4              |
| 122        | ENSG00000182022.17 | -1.574753618   | background     | background     | background     | 5              |
| 122        | ENSG00000182035.11 | 3.063388165    | background     | background     | background     | 5              |
| 122        | ENSG00000182050.13 | 2.255358614    | background     | background     | background     | 4              |
| 122        | ENSG00000182054.9 | -1.025147575   | 5              | background     | background     | 5              |
| 122        | ENSG00000182095.14 | -1.00523121    | background     | background     | background     | 5              |
| 122        | ENSG00000182118.7 | 2.474297117    | NA             | background     | background     | 4              |
| 122        | ENSG00000182134.15 | -1.389841905   | background     | background     | background     |                |
| 122        | ENSG00000182175.13 | 4.204475124    | background     | background     | background     | 5              |
| 122        | ENSG00000182179.12 | -2.115884667   | background     | background     | background     |                |
| 122        | ENSG00000182183.14 | 2.193801176    | background     | background     | background     | 5              |
| 122        | ENSG00000182223.7 | 6.155017829    | NA             | background     | background     |                |
| 122        | ENSG00000182272.11 | -1.463635407   | background     | NA             | background     |                |
| 122        | ENSG00000182308.6 | 4.159300391    | NA             | background     | background     |                |
| 122        | ENSG00000182324.6 | 3.180401591    | background     | background     | background     |                |
| 122        | ENSG00000182329.12 | 1.960576065    | background     | NA             | NA             | 4              |
| 122        | ENSG00000182379.9 | 1.757385692    | NA             | background     | background     |                |
| 122        | ENSG00000182459.4 | 1.59627582     | NA             | background     | background     |                |
| 122        | ENSG00000182578.13 | 3.883738823    | background     | background     | background     | 5              |
| 122        | ENSG00000182759.3 | 2.851595832    | NA             | background     | background     |                |
| 122        | ENSG00000182791.4 | -1.512886452   | NA             | background     | background     |                |
| 122        | ENSG00000182866.16 | 1.497097044    | background     | background     | background     | 5              |
| 122        | ENSG00000182963.9 | 2.605774898    | NA             | background     | background     |                |
| ENSG00000182985.17 | -1.371135203 | background | background | background | 4 |
|-------------|---------------|------------|------------|------------|---|
| ENSG00000183018.8 | 1.576676604 | background | background | background | 5 |
| ENSG00000183072.9 | 1.720638142 | NA | background | background | 4 |
| ENSG00000183077.15 | -1.737441783 | background | background | background | 5 |
| ENSG00000183091.19 | 1.15057169 | background | background | background | 5 |
| ENSG00000183092.16 | 5.709939583 | background | background | background | 5 |
| ENSG00000183111.11 | 1.872714264 | background | background | background | 5 |
| ENSG00000183114.7 | -1.283528485 | NA | background | background | 4 |
| ENSG00000183134.4 | -1.146079134 | NA | background | background | 5 |
| ENSG00000183145.8 | 1.199802712 | background | background | background | 5 |
| ENSG00000183160.8 | 1.68983672 | NA | background | background | 4 |
| ENSG00000183166.10 | 3.904841385 | background | background | background | 5 |
| ENSG00000183186.7 | 6.693859492 | NA | background | background | 4 |
| ENSG00000183248.11 | -1.158364221 | background | background | background | 5 |
| ENSG00000183324.10 | 2.711925302 | NA | background | background | 5 |
| ENSG00000183386.9 | 1.377984096 | background | background | background | 5 |
| ENSG00000183423.11 | 6.187274607 | background | NA | background | 5 |
| ENSG00000183484.11 | 4.747394717 | NA | background | background | 5 |
| ENSG00000183549.10 | -1.874626729 | 5 | background | background | 4 |
| ENSG00000183571.10 | 4.886042678 | background | background | background | 5 |
| ENSG00000183629.13 | 3.001894524 | background | background | background | 5 |
| ENSG00000183682.7 | 3.41943691 | background | background | background | 5 |
| ENSG00000183747.11 | -1.675971893 | background | background | background | 5 |
| ENSG00000183760.10 | 3.452329409 | background | background | background | 5 |
| ENSG00000183762.12 | -1.592328094 | background | background | background | 4 |
| ENSG00000183765.20 | -1.234611245 | background | background | background | 5 |
| ENSG00000183778.17 | 5.371429945 | background | background | background | 5 |
| ENSG00000183798.4 | -1.751165777 | background | background | background | 5 |
| ENSG00000183826.16 | 1.051805447 | background | background | background | 4 |
| ENSG00000183840.6 | 1.725111035 | NA | background | background | 5 |
| ENSG00000183844.16 | -1.277669952 | background | background | background | 4 |
| ENSG00000183943.5 | 1.535529309 | background | background | background | 5 |
| ENSG00000183963.18 | 1.039730335 | background | background | background | 5 |
| ENSG00000183977.13 | 1.822096566 | background | background | background | 5 |
| ENSG00000184060.10 | 2.072105862 | background | background | background | 5 |
| ENSG00000184113.9 | -1.364869139 | NA | background | background | 5 |
| ENSG00000184117.11 | -1.502687929 | background | background | background | 5 |
| ENSG00000184163.3 | 1.332486425 | background | background | background | 5 |
| ENSG00000184166.2 | 1.257130624 | NA | NA | background | 5 |
| ENSG00000184227.7 | -1.334361895 | background | background | background | 5 |
| ENSG00000184261.4 | -4.031957602 | NA | background | background | 5 |
| Gene          | Log2 Fold Change | Description | Gene       | Log2 Fold Change | Description |
|--------------|----------------|------------|------------|----------------|-------------|
| ENSG00000184304.14 | 1.309171028     | background | ENSG00000184343.10 | 1.459292174     | background |
| ENSG00000184361.12 | 4.732162686     | background | ENSG00000184381.18 | -1.147292861    | background |
| ENSG00000184454.6  | -1.660757221    | background | ENSG00000184481.16 | -1.080076557    | background |
| ENSG00000184489.11 | -2.359271458    | background | ENSG00000184492.6  | 4.596466422     | background |
| ENSG00000184500.14 | -1.107253359    | background | ENSG00000184507.15 | 3.09940809     | background |
| ENSG00000184507.15 | 1.269128989     | background | ENSG00000184545.10 | 1.269128989     | background |
| ENSG00000184659.4  | 5.536951670     | background | ENSG00000184678.10 | 2.485963878     | background |
| ENSG00000184678.10 | 5.356951670     | background | ENSG00000184697.6  | 1.126472894     | background |
| ENSG00000184702.18 | -1.675046346    | background | ENSG00000184709.7  | -1.083264601    | background |
| ENSG00000184716.13 | 1.240425575     | background | ENSG00000184713.5  | 1.73964069     | background |
| ENSG00000184792.15 | 1.023482249     | background | ENSG00000184895.7  | -1.401143874    | background |
| ENSG00000184898.6  | -1.835941613    | background | ENSG00000184922.13 | 2.522807725     | background |
| ENSG00000184923.12 | 1.123481875     | background | ENSG00000184925.11 | -1.649271484    | background |
| ENSG00000184956.15 | 4.572662284     | background | ENSG00000184979.9  | -1.395897085    | background |
| ENSG00000184984.9  | 2.802080659     | background | ENSG00000184985.16 | 4.535781170     | background |
| ENSG00000184986.10 | -2.523717791    | background | ENSG00000184996.14 | 2.967624555     | background |
| ENSG00000184500.14 | 1.309171028     | background | ENSG00000184507.15 | 3.09940809     | background |
| ENSG00000184507.15 | 1.269128989     | background | ENSG00000184545.10 | 1.269128989     | background |
| ENSG00000184659.4  | 5.536951670     | background | ENSG00000184678.10 | 2.485963878     | background |
| ENSG00000184678.10 | 5.356951670     | background | ENSG00000184697.6  | 1.126472894     | background |
| ENSG00000184697.6  | 1.126472894     | background | ENSG00000184702.18 | -1.675046346    | background |
| ENSG00000184709.7  | -1.083264601    | background | ENSG00000184716.13 | 1.240425575     | background |
| ENSG00000184713.5  | 1.73964069      | background | ENSG00000184792.15 | 1.023482249     | background |
| ENSG00000184792.15 | 1.023482249     | background | ENSG00000184895.7  | -1.401143874    | background |
| ENSG00000184898.6  | -1.835941613    | background | ENSG00000184922.13 | 2.522807725     | background |
| ENSG00000184923.12 | 1.123481875     | background | ENSG00000184925.11 | -1.649271484    | background |
| ENSG00000184956.15 | 4.572662284     | background | ENSG00000184979.9  | -1.395897085    | background |
| ENSG00000184984.9  | 2.802080659     | background | ENSG00000184985.16 | 4.535781170     | background |
| ENSG00000184986.10 | -2.523717791    | background | ENSG00000184996.14 | 2.967624555     | background |
| ENSG00000184996.14 | -1.556393142    | background | ENSG00000185028.3  | 6.182715723     | background |
| ENSG00000185028.3  | 6.182715723     | background | ENSG00000185034.7  | 2.337712472     | background |
| ENSG00000185034.7  | 2.337712472     | background | ENSG00000185055.11 | -1.867005103    | background |
| ENSG00000185055.11 | -1.867005103    | background | ENSG00000185271.7  | 1.933400713     | background |
| ENSG00000185291.11 | 2.207030543     | background | ENSG00000185291.11 | 2.207030543     | background |
| ENSG00000185291.11 | 2.207030543     | background | ENSG00000185306.12 | 5.376530076     | background |
| ENSG00000185306.12 | 5.376530076     | background | ENSG00000185338.4  | -1.995191705    | background |
| ENSG00000185338.4  | -1.995191705    | background | ENSG00000185347.17 | -1.089726969    | background |
| ENSG00000185347.17 | -1.089726969    | background | ENSG00000185386.14 | 2.967624555     | background |
| Gene ID          | Value       | Background | Background | Background | Score |
|-----------------|-------------|------------|------------|------------|-------|
| ENSG00000185420.18 | -1.244451821 | background | background | background | 4     |
| ENSG00000185432.11 | -1.843642325 | NA         | background | background | 5     |
| ENSG00000185437.13 | 1.018044199  | background | background | background | 5     |
| ENSG00000185467.7  | 2.35023036   | background | background | background | 5     |
| ENSG00000185482.7  | 1.998876831  | background | background | background | 5     |
| ENSG00000185507.19 | 2.270366391  | background | background | background | 5     |
| ENSG00000185522.8  | -1.280217823 | background | background | background | 5     |
| ENSG00000185565.11 | 3.087972106  | background | background | background | 4     |
| ENSG00000185567.6  | 4.256715154  | background | background | background | 5     |
| ENSG00000185615.15 | 2.096315067  | background | background | background | 5     |
| ENSG00000185634.11 | 2.556993905  | background | background | background | 5     |
| ENSG00000185689.15 | -2.137510933 | background | background | background | 5     |
| ENSG00000185745.9  | -2.059878779 | NA         | background | background | 5     |
| ENSG00000185758.8  | 4.787109555  | NA         | NA         | NA         | 5     |
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| ENSG00000185792.9  | 4.22274222   | background | background | background | 5     |
| ENSG00000185813.10 | -1.200564123 | background | background | background | 5     |
| ENSG00000185933.6  | 2.629242023  | NA         | background | background | 5     |
| ENSG00000185955.4  | 5.309233211  | NA         | background | background | 5     |
| ENSG00000185974.6  | 3.362805424  | background | background | background | 5     |
| ENSG00000185989.10 | 4.447433491  | background | background | background | 5     |
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| ENSG00000186329.9  | 1.438088072  | NA         | background | background | 5     |
| ENSG00000186340.14 | 2.278663096  | background | background | background | 5     |
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| ENSG00000186352.8  | -1.327084327 | background | background | background | 5     |
| ENSG00000186451.1  | 2.576734484  | NA         | background | background | 5     |
| ENSG00000186470.13 | -1.069887874 | background | background | background | 5     |
| ENSG00000186517.13 | 2.378915761  | background | background | background | 5     |
| ENSG00000186628.12 | 2.446828863  | background | background | 5          | 4     |
| ENSG00000186642.15 | 1.719093793  | background | background | background | 5     |
| ENSG00000186684.12 | 3.471586537  | S          | background | background | 5     |
| ENSG00000186723.4  | 2.460831785  | NA         | background | background | 5     |
| ENSG00000186765.11 | 2.65179541   | background | background | background | 5     |
| ENSG00000186827.10 | 4.855421526 | background | background | background | background |
|-------------------|-------------|------------|------------|------------|------------|
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| ENSG00000186891.13 | 5.395098462 | background | NA         | background | background |
| ENSG00000186907.7  | -1.405884116| background | background | background | background |
| ENSG00000186910.3  | -2.170121532| background | background | background | background |
| ENSG00000186912.6  | 1.888349597 | NA         | background | background | background |
| ENSG00000186918.13 | -2.6707214  | background | background | background | background |
| ENSG00000186973.10 | 1.853261598 | background | NA         | background | background |
| ENSG00000186976.14 | 2.92768634  | background | background | background | background |
| ENSG00000186998.15 | -2.7626895  | background | background | background | background |
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| 122 | ENSG00000226763.4 | 2.09534282 | NA | background | background | 5 |
| 122 | ENSG00000228198.3 | 1.512486187 | NA | background | background | background |
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| 122 | ENSG00000233232.2 | 4.017565773 | background | background | background | 5 |
| 122 | ENSG00000233822.4 | 1.395236321 | NA | NA | background | background |
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| 122 | ENSG00000235169.7 | -1.75656615 | background | background | background | background |
| 122 | ENSG00000235608.1 | 5.041660365 | NA | NA | NA | background |
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| 122 | ENSG00000236197.3 | 2.397281102 | NA | background | background | 5 |
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| 122 | ENSG00000237353.6 | 2.403691116 | NA | background | background | background |
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| 122 | ENSG00000238205.3 | 4.481970199 | NA | background | background | background |
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| 122 | ENSG00000239697.10 | -1.112302615 | background | background | background | background |
| 122 | ENSG00000239713.8 | -1.191684274 | background | background | background | background |
| 122 | ENSG00000240021.9 | 1.648518007 | background | background | background | 5 |
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| Gene ID | Value1 | Value2 | Value3 | Value4 | Value5 |
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| ENSG00000240654.6 | 5.619918805 | background | background | background | background |
| ENSG0000024094.8 | 2.130789531 | background | background | 5 | 5 |
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| ENSG00000241322.4 | 2.36996439 | background | NA | background | 4 |
| ENSG00000241399.6 | -1.04703428 | NA | background | 5 | 5 |
| ENSG00000241563.3 | 1.772854788 | background | background | background | background |
| ENSG00000241635.7 | 1.179070014 | background | background | background | background |
| ENSG00000241873.8 | -1.125863312 | background | background | background | background |
| ENSG00000242017.3 | 1.839843497 | background | background | background | background |
| ENSG0000024207.5 | 1.204017308 | background | background | background | background |
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| ENSG00000242852.6 | 1.63475917 | background | background | background | background |
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| ENSG00000243279.3 | 3.007762128 | background | background | background | background |
| ENSG0000024364.4 | -1.85276783 | background | background | background | background |
| ENSG00000243710.7 | 2.642901086 | background | background | background | background |
| ENSG00000243955.5 | -1.705942115 | background | background | background | background |
| ENSG00000244067.2 | 5.345196252 | background | NA | background | 4 |
| ENSG00000244187.7 | -1.85276783 | background | background | background | background |
| ENSG00000244607.5 | 1.98983912 | background | background | background | background |
| ENSG00000246922.8 | 3.155598846 | background | background | background | background |
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| ENSG00000248871.1 | -6.242126072 | background | background | background | background |
| ENSG00000249115.8 | -1.317615169 | background | background | background | background |
| ENSG00000249437.7 | 1.484827423 | background | background | background | background |
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| ENSG00000249884.8 | 1.075284304 | background | background | background | background |
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| ENSG00000249992.1 | 2.178292442 | background | background | background | background |
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| ENSG00000250673.2 | 2.642901086 | background | background | background | background |
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| ENSG00000250799.9 | -1.631642319 | background | background | background | background |
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| ENSG00000251503.8 | -1.018164114 | background | background | background | 5 |
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| ENSG00000253305.2 | 2.179689485 | background | NA         | background | 5 |
| ENSG00000253309.6 | 3.261805824 | background | background | background | 5 |
| ENSG00000253313.5 | -1.80682647 | NA         | background | background | background |
| ENSG00000253598.1 | 1.850547607 | background | background | background | background |
| ENSG00000253626.3 | 5.403732447 | background | background | background | 5 |
| ENSG00000253649.3 | 7.47085259  | background | background | background | 5 |
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| ENSG00000254206.5 | 1.384424322 | background | background | background | 5 |
| ENSG00000255526.6 | 1.164912198 | background | NA         | background | 4 |
| ENSG00000255587.7 | 3.994471846 | background | background | background | 5 |
| ENSG00000255823.4 | 3.542032465 | NA         | background | background | background |
| ENSG00000256162.2 | -1.236410248 | NA         | background | background | background |
| ENSG00000256188.3 | 2.651127547 | background | background | background | background |
| ENSG00000256453.1 | 3.375947369 | background | background | background | background |
| ENSG00000256683.6 | 1.219306709 | background | background | background | 5 |
| ENSG00000257108.1 | 1.029021861 | NA         | background | background | background |
| ENSG00000257335.8 | 1.712576986 | background | background | background | 4 |
| ENSG00000258130.7 | 1.261386989 | background | background | background | background |
| ENSG00000258472.8 | 1.391784417 | NA         | background | background | 4 |
| ENSG00000258674.5 | 1.04487439 | background | background | background | 4 |
| ENSG00000258818.3 | -2.033072218 | NA         | background | background | background |
| ENSG00000258873.2 | 4.221169743 | background | NA         | background | background |
| ENSG00000258881.6 | 1.065050586 | background | background | background | 5 |
| ENSG00000259120.2 | 1.430325899 | NA         | background | background | background |
| ENSG00000259171.1 | -1.765437295 | background | background | background | background |
| ENSG00000259332.3 | 1.859598284 | background | background | background | 5 |
| ENSG00000259784.1 | 3.105131312 | background | background | NA         | background |
| ENSG00000259803.6 | -1.48107017 | background | NA         | background | background |
| ENSG00000260325.1 | 3.771800766 | NA         | background | background | background |
| ENSG00000260428.2 | 1.64109436  | NA         | background | background | background |
| ENSG00000261308.2 | 3.842771563 | NA         | background | background | 5 |
| ENSG00000261456.5 | -3.142503402 | background | background | background | background |
| ENSG00000261701.6 | -1.867728529 | background | background | background | 5 |
| ENSG00000261857.6 | 5.653200737 | background | background | background | 5 |
| ENSG00000262180.1 | 2.327669847 | NA         | background | background | background |
| ENSG00000262655.3 | 6.612363775 | background | background | background | 5 |
| Ensembl ID | Value     | Standard Error | Type | NA | Ensembl ID | Value     | Standard Error | Type | NA |
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| ENSG00000263020.6 | 1.126152951 | background | background | background | background | background | background | background | background | 4 |
| ENSG00000263155.5 | 4.310402944 | background | background | background | background | background | background | background | background | 5 |
| ENSG00000263434.3 | 1.217435303 | background | background | background | background | background | background | background | background | 5 |
| ENSG00000265817.2 | -1.961738935 | background | NA | NA | background | background | background | background | background | 5 |
| ENSG00000266074.8 | -1.192295016 | background | background | background | background | background | background | background | background | 5 |
| ENSG00000266338.6 | 1.057085823 | background | background | background | background | background | background | background | background | 5 |
| ENSG00000266524.2 | 2.454466363 | background | NA | NA | background | background | background | background | background | 5 |
| ENSG00000270168.2 | 1.716986276 | background | background | background | background | background | background | background | background | 5 |
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| ENSG00000277481.1    | 5.176743717   | background | NA | NA | 5          |
| ENSG00000277639.2    | 2.723732376   | background | background | background | 5         |
| ENSG00000277745.1    | 4.882247221   | NA         | background | background | 5         |
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| ENSG00000278535.4    | -1.298840972  | background | background | background | 5         |
| ENSG00000278570.4    | 4.426306907   | background | background | background | background |
| ENSG00000279493.1    | -1.480732957  | background | NA | background | background |
| ENSG00000279668.2    | -1.062329662  | background | NA | NA | 5          |
| ENSG00000283071.1    | -4.774152521  | background | background | background | background |
| ENSG00000283189.2    | -1.49434045   | background | background | background | background |
| ENSG00000283268.1    | 3.613653136   | NA         | background | background | background |
| ENSG00000283516.1    | 1.367380718   | background | background | background | background |
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| ENSG00000283703.1    | 2.642929592   | NA         | NA | NA | 5          |
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| ENSG00000284505.1    | -1.151648029  | background | background | background | background |
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| ENSG00000284638.1    | 4.429602141   | background | NA | background | background |
| ENSG00000284713.1    | 1.367796049   | NA         | background | background | background |
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| ENSG000000004139.13  | 1.071558149   | background | background | - | 5          |
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| ENSG000000006016.10  | -1.04182934   | background | background | background | 5         |
| ENSG000000006047.12  | 2.120863753   | background | background | background | background |
| ENSG000000006606.8   | 3.851204111   | background | background | background | 4         |
| ENSG000000006652.13  | 1.439405596   | background | background | background | 5         |
| ENSG000000008277.14  | -1.017091617  | background | background | background | 5         |
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| ENSG000000011347.9   | -1.506500812  | background | background | background | 5         |
| ENSG000000014914.20  | 1.401297635   | background | background | background | 5         |
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| ENSG000000018869.16  | 1.015869652   | background | background | background | 5         |
| ENSG000000026297.15  | -1.32313845   | background | background | background | 5         |
| ENSG000000027869.11  | 1.034896315   | background | background | background | background |
| ENSG000000028277.12  | 1.366037089   | background | background | background | 5         |
| ENSG000000040608.13  | -1.434709909  | background | background | background | 5         |
| ENSG000000042832.11  | 4.864688144   | background | background | background | 4         |
| ENSG000000047365.11  | 1.227086756   | background | background | - | 4          |
| Gene ID         | Log2 Fold Change | Background | Background | Background | Background |
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| ENSG00000047457.13 | -1.147906546     | background | background | background | 4          |
| ENSG00000047457.13 | -2.65072352      | background | background | background | 4          |
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| ENSG00000047457.13 | 2.453504911      | background | background | background | 4          |
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| ENSG00000047457.13 | -1.90738702      | background | background | background | 3          |
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| Chromosome | Gene | Value | Feature 1 | Feature 2 | Feature 3 | Feature 4 | Feature 5 |
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| 123 | ENSG00000080031.9 | -1.223162039 | background | background | background | background | 5 |
| 123 | ENSG00000081051.7 | -1.808385158 | background | background | background | background | background |
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| 123 | ENSG00000089723.9 | 1.795017931 | background | background | background | background | background |
| 123 | ENSG00000090774.7 | 1.187925759 | background | background | background | background | background |
| 123 | ENSG00000091138.12 | -1.74352933 | background | background | background | background | 4 |
| 123 | ENSG00000091513.14 | -1.12783077 | background | background | background | background | 5 |
| 123 | ENSG00000091656.15 | -1.585057871 | background | background | background | background | 5 |
| 123 | ENSG00000091704.9 | 2.98648876 | background | background | background | background | 5 |
| 123 | ENSG00000091879.12 | -1.205785763 | background | background | background | background | 5 |
| 123 | ENSG00000091957.13 | 1.122930137 | background | background | background | background | 5 |
| 123 | ENSG00000092621.12 | 2.052602989 | background | background | background | background | background |
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| 123 | ENSG00000100116.16 | -1.112158098 | background | background | background | background | background |
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| 123 | ENSG00000100290.2 | 2.262433705 | background | background | background | background | 5 |
| 123 | ENSG00000100311.16 | -1.128350709 | background | background | background | background | 5 |
| 123 | ENSG00000100342.20 | -1.5017921 | background | background | background | background | 5 |
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| Ensembl Transcript ID | Log2 Fold Change | Annotation | Previous Transcript ID | Gene Name |
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| ENSG00000101162.3    | -2.18290547      | background | ENSG00000101200.5      | background |
| ENSG00000101204.16   | 4.215959301      | background | ENSG00000101210.10     | background |
| ENSG00000101265.15   | 2.184350899      | background | ENSG00000102053.12     | background |
| ENSG00000102265.11   | 1.263220435      | background | ENSG00000102935.11     | background |
| ENSG00000102265.11   | 2.948347226      | background | ENSG00000103044.10     | background |
| ENSG00000103375.10   | 1.32454405       | background | ENSG00000104055.15     | background |
| ENSG00000104419.14   | -2.1892832       | background | ENSG00000104537.16     | background |
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| ENSG00000104826.12   | 1.791911864      | background | ENSG00000104856.13     | background |
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| ENSG00000105642.15   | 3.354910485      | background | ENSG00000105642.15     | background |
| ENSG00000105642.15   | 3.354910485      | background | ENSG00000105649.9      | background |
| ENSG00000105650.21   | 3.170768318      | background | ENSG00000105668.7      | background |
| ENSG00000105679.7    | -1.591222402     | background | ENSG00000105707.13     | background |
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| ENSG00000106415.12   | 1.283413229      | background | ENSG00000106991.13     | background |
| ENSG00000107159.12   | -2.613731116     | background | ENSG00000107165.12     | background |
| ENSG00000107331.16   | -1.332110848     | background | ENSG00000107736.19     | background |
| ENSG00000108231.12   | -1.85130319      | background | ENSG00000108231.12     | background |
| Gene ID       | Gene Name       | Value     | Background | NA     | Background |
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| ENSG00000108417.3 | 123              | 3.571950255 | background | NA | background |
| ENSG00000108551.4 | 123              | 1.213265768 | NA         | background | background |
| ENSG00000108576.9 | 123              | -1.493079136 | background | background | 5 |
| ENSG00000108602.17 | 123            | 1.283893677 | background | background | 5 |
| ENSG00000108813.10 | 123            | -1.685726528 | background | background | 5 |
| ENSG00000108839.11 | 123            | 1.250474269 | background | background | 5 |
| ENSG00000108852.14 | 123            | 1.951171343 | background | background | 5 |
| ENSG00000109107.13 | 123            | 1.740912236 | background | background | 5 |
| ENSG00000109181.11 | 123            | -1.00825093 | background | background | 5 |
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| Gene Accession | SNP Position | Expression Value | Background | Background | Background | Background | Background |
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| ENSG00000116254.17 | 1.53587918 | background | background | background | background | background | background |
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| ENSG00000123999.4 | -1.564387628 | NA | background | background | background | 4 |
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| ENSG00000128285.4 | 3.203513031 | NA | background | background | background | 5 |
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| ENSG00000130513.6 | 1.25490026 | NA | background | background | background |
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| ENSG00000130701.3 | -1.087067561 | 1.572673691 | background | background | background |
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| ENSG00000130783.13 | -3.31437872 | 1.034765939 | background | background | background |
| ENSG00000130812.15 | -1.116705455 | -1.116705455 | background | background | background |
| ENSG00000130997.16 | -1.90356627 | 1.33401205 | background | background | background |
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| ENSG00000131480.8 | 1.021473096 | 1.034765939 | background | background | background |
| ENSG00000131746.12 | -1.105228914 | -1.116705455 | background | background | background |
| ENSG00000131951.10 | -1.90356627 | 1.33401205 | background | background | background |
| ENSG00000132437.17 | -1.13399404 | 1.33401205 | background | background | background |
| ENSG00000132510.10 | 1.184811822 | 1.73100741 | background | background | background |
| ENSG00000132514.13 | 3.100437772 | 1.802755325 | background | background | background |
| ENSG00000132563.15 | 2.184327129 | background | background | background | background |
| ENSG00000132718.8 | 1.943303551 | background | background | background | background |
| ENSG00000132744.7 | -2.267373082 | -1.116554135 | background | background | background |
| ENSG00000132749.10 | -1.154544935 | -1.716545628 | background | background | background |
| ENSG00000132837.14 | -1.006617424 | -1.116705455 | background | background | background |
| ENSG000001333433.10 | 1.155470489 | background | background | background | background |
| ENSG00000133800.8 | 2.304307704 | background | background | background | background |
| ENSG00000134107.4 | -1.116554135 | 3.669059375 | background | background | background |
| ENSG00000134762.16 | -1.094590788 | 1.537483484 | background | background | background |
| ENSG00000134909.18 | 1.153598335 | 1.802755325 | background | background | background |
| ENSG00000134954.14 | 1.503161155 | background | background | background | background |
| ENSG00000134986.13 | -1.204432073 | background | background | background | background |
| ENSG00000135074.15 | 1.168127836 | 1.732709983 | background | background | background |
| ENSG00000135373.12 | 1.240129654 | 1.802755325 | background | background | background |
| ENSG00000135625.7 | 3.009378007 | background | background | background | background |
| Gene Name | Value 1 | Value 2 | Value 3 | Value 4 | Value 5 |
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| ENSG00000135925.8 | 4.2841976 | background | background | background | background |
| ENSG00000136059.14 | -1.098016058 | background | background | background | 5 |
| ENSG00000136167.13 | -1.16726095 | background | background | background | 5 |
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| ENSG00000136877.9 | 2.113342209 | background | background | background | 5 |
| ENSG00000136882.12 | -1.256485837 | background | background | background | 5 |
| ENSG00000136897.9 | 1.988098253 | background | background | background | 5 |
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| ENSG00000136929.11 | -1.426954795 | background | background | background | 5 |
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| 123 ENSG00000148798.10 | 1.313724794  | background | background | background | background |
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| 123 ENSG00000149403.12 | -1.511074596 | background | background | background | 5          |
| 123 ENSG00000149527.17 | 1.510488314  | background | background | background | 5          |
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| 123 ENSG00000149591.16 | 1.640579835  | background | background | background | background |
| 123 ENSG00000149781.12 | 2.005137725  | background | background | background | 5          |
| 123 ENSG00000150540.13 | -1.029575582 | background | background | background | 5          |
| 123 ENSG00000151640.12 | 1.671804256  | background | background | background | background |
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| 123 ENSG00000153029.14 | 1.298568886  | NA         | background | background | 5          |
| 123 ENSG00000153902.13 | -3.599052077 | background | background | background | 5          |
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| 123 ENSG00000156222.11 | -2.781363037 | background | background | background | 4          |
| 123 ENSG00000156232.7 | 1.142026493  | S          | background | background | 4          |
| 123 ENSG00000156427.7 | 2.158688953  | background | background | background | background |
| 123 ENSG00000156535.13 | 1.919326112  | background | background | background | 5          |
| Gene symbol                  | Change (log2) | Value  | P.Value | Background | Feature | Genes | Feature |
|------------------------------|--------------|--------|---------|------------|---------|-------|---------|
| ENSG00000156574.9            | 3.290894698  | background | NA      | background | 5       |       |         |
| ENSG00000156966.6            | 1.09114688   | background | NA      | background | 4       |       |         |
| ENSG00000157131.10           | -1.160020798 | background | background | background | 5       |       |         |
| ENSG00000157303.10           | -1.305763467 | background | background | background | 5       |       |         |
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| ENSG00000157514.16           | 1.433076319  | background | background | background | 5       |       |         |
| ENSG00000157657.14           | -1.13185426  | background | background | background | 5       |       |         |
| ENSG00000158023.9            | 1.053840785  | background | background | background | 5       |       |         |
| ENSG00000158055.15           | 4.203249702  | background | background | background | 4       |       |         |
| ENSG00000158246.7            | 1.081457371  | NA      | background | background | 4       |       |         |
| ENSG00000158296.13           | -1.451785802 | background | background | background | 5       |       |         |
| ENSG00000158445.9            | 2.056902918  | NA      | background | background | 5       |       |         |
| ENSG0000015859.9             | 1.155856432  | background | background | background | 5       |       |         |
| ENSG0000015887.15            | 1.173716606  | background | background | background | 5       |       |         |
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| ENSG00000159216.18           | 1.093747078  | background | background | background | 5       |       |         |
| ENSG00000159261.10           | -2.235942135 | NA      | background | background | 4       |       |         |
| ENSG00000159388.5            | 1.127514483  | NA      | background | background | 4       |       |         |
| ENSG00000159588.14           | 1.012805224  | background | background | background | 4       |       |         |
| ENSG00000159625.14           | -1.013251686 | background | background | background | 5       |       |         |
| ENSG00000159650.8            | -3.093424461 | background | background | background | 5       |       |         |
| ENSG00000159917.15           | 1.001106032  | background | background | background | 5       |       |         |
| ENSG00000160183.13           | -1.392336676 | background | background | background | 4       |       |         |
| ENSG00000160191.17           | -2.135964265 | background | background | background | 4       |       |         |
| ENSG00000160223.16           | 1.305942187  | background | background | background | 5       |       |         |
| ENSG00000160233.7            | -1.385816608 | NA      | background | background | 5       |       |         |
| ENSG00000160255.17           | -1.591475911 | background | background | background | 5       |       |         |
| ENSG00000160318.6            | -1.145227491 | NA      | background | background | 5       |       |         |
| ENSG00000160323.18           | -1.182339106 | background | background | background | 4       |       |         |
| ENSG00000160712.12           | 1.233785961  | background | background | background | 4       |       |         |
| ENSG00000160716.5            | 2.109498601  | background | background | background | 5       |       |         |
| ENSG00000161011.19           | 1.154350777  | background | background | background | 5       |       |         |
| ENSG00000161031.12           | -1.466787704 | background | background | background | 5       |       |         |
| ENSG00000161243.8            | -1.62539525  | background | background | background | 5       |       |         |
| ENSG00000161281.10           | 1.579096734  | background | background | background | 5       |       |         |
| ENSG00000161328.10           | 1.84839752   | background | background | background | 5       |       |         |
| ENSG00000161509.13           | 2.501652658  | background | background | background | 5       |       |         |
| ENSG00000161642.17           | 1.674364592  | background | background | background | 5       |       |         |
| ENSG00000161647.18           | 1.293724079  | background | background | background | 5       |       |         |
| ENSG00000161714.11           | 1.325735391  | background | background | background | 5       |       |         |
| ENSG00000161896.11           | 6.63781456   | background | background | background | 5       |       |         |
| Gene ID         | GeneID     | Expression | Status 1 | Status 2 | Status 3 | Status 4 |
|----------------|------------|------------|----------|----------|----------|----------|
| ENSG00000161958.10 | -1.768772008 | background | background | background | background | background |
| ENSG00000162004.16 | 1.443815393  | background | background | background | background | background |
| ENSG00000162069.14 | -2.049220295 | background | background | background | background | background |
| ENSG00000162383.11 | -2.09458947 | background | background | background | background | background |
| ENSG00000162391.11 | -1.683728205 | background | background | background | background | background |
| ENSG00000162458.12 | 1.258541137  | background | background | background | background | background |
| ENSG00000162490.6 | 3.358085187  | background | background | background | background | background |
| ENSG00000162591.15 | 1.274277312  | background | background | background | background | background |
| ENSG00000162614.18 | 1.121854073  | background | background | background | background | background |
| ENSG00000162727.16 | 1.106314358  | background | background | background | background | background |
| ENSG00000162825.12 | 1.374507572  | background | NA        | NA        | background | background |
| ENSG00000162849.15 | 3.418216825  | background | background | background | background | background |
| ENSG00000162909.17 | 1.1608677    | background | background | background | background | background |
| ENSG00000162944.10 | 2.391679645  | background | background | background | background | background |
| ENSG00000162975.4 | 2.637010173  | NA         | background | background | background | background |
| ENSG00000163060.7 | 1.538999862  | background | background | background | background | background |
| ENSG00000163393.12 | 1.133824218  | background | background | background | background | background |
| ENSG00000163545.8 | 1.164071847  | background | background | background | background | background |
| ENSG00000163586.9 | -2.094227263 | background | background | background | background | background |
| ENSG00000163596.16 | 1.084508577  | background | background | background | background | background |
| ENSG00000163687.13 | -1.888184268 | background | background | background | background | background |
| ENSG00000163810.11 | 3.011220773  | background | background | background | background | background |
| ENSG00000163959.9 | -1.04600165  | background | background | background | background | background |
| ENSG00000164096.12 | -1.05430192  | NA         | background | background | background | background |
| ENSG00000164099.3 | -2.036376734 | background | background | background | background | background |
| ENSG00000164251.4 | 1.297808558  | NA         | background | background | background | background |
| ENSG00000164406.7 | -1.654778465 | background | background | background | background | background |
| ENSG00000164442.9 | -1.466281311 | NA         | background | background | background | background |
| ENSG00000164463.12 | 1.137357318  | background | background | background | background | background |
| ENSG00000164484.11 | -1.563855746 | background | background | background | background | background |
| ENSG00000164604.12 | -1.646237412 | background | background | background | background | background |
| ENSG00000164638.10 | -1.016330149 | background | background | background | background | background |
| ENSG00000164849.9 | -1.242059927 | NA         | background | background | background | background |
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| ENSG00000164972.12 | -1.355250214 | background | background | background | background | background |
| ENSG00000165046.12 | 1.271406911  | background | background | background | background | background |
| ENSG00000165194.15 | 4.423947732  | background | NA        | background | background | background |
| ENSG00000165272.14 | 1.110931703  | background | background | background | background | background |
| ENSG00000165309.13 | 1.595992984  | background | background | background | background | background |
| ENSG00000165507.8 | -1.03211382  | NA         | background | background | background | background |
| ENSG00000165626.16 | 1.023656754  | background | background | background | background | 4
|     | ENSG00000165757.8 | 1.251990825 | background | background | background | 5 |
|-----|-------------------|-------------|------------|------------|------------|---|
|     | ENSG00000165795.23 | -1.095116032 | background | background | background | 4 |
|     | ENSG00000165863.16 | -1.988254874 | background | background | background | background |
|     | ENSG00000165879.8 | -1.03689812 | NA         | background | background | background |
|     | ENSG00000165895.17 | 1.137330824 | background | background | background | 4 |
|     | ENSG00000165953.9 | -2.394499722 | background | background | background | 5 |
|     | ENSG00000165985.9 | 2.563344946 | NA         | background | background | background |
|     | ENSG00000165995.18 | 1.431381166 | background | background | background | 5 |
|     | ENSG00000166025.17 | 2.199919091 | background | background | background | 4 |
|     | ENSG00000166153.16 | -1.03301479 | background | background | background | background |
|     | ENSG00000166165.12 | -1.027884744 | background | background | background | background |
|     | ENSG00000166246.13 | 1.72094277 | background | background | background | 5 |
|     | ENSG00000166313.18 | -1.242328956 | background | background | background | background |
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|     | ENSG00000166510.13 | -1.299898102 | background | background | background | 5 |
|     | ENSG00000166589.12 | -2.107392032 | background | background | background | background |
|     | ENSG00000166592.11 | 4.110826766 | background | background | background | background |
|     | ENSG00000166780.10 | 1.575382489 | background | background | background | 5 |
|     | ENSG00000166816.13 | -1.032280892 | background | background | background | background |
|     | ENSG00000166819.11 | -1.50495223 | background | background | background | 5 |
|     | ENSG00000166900.16 | 1.276137838 | background | background | background | 5 |
|     | ENSG00000166984.11 | -1.73858488 | background | background | background | 5 |
|     | ENSG00000167183.2 | 1.23264328 | NA         | background | background | 5 |
|     | ENSG00000167191.11 | 1.638299382 | background | background | background | 5 |
|     | ENSG00000167554.14 | 1.966159078 | background | background | background | 5 |
|     | ENSG00000167555.13 | 1.028748413 | background | background | background | background |
|     | ENSG00000167600.13 | 1.383338234 | background | background | background | background |
|     | ENSG00000167601.11 | 1.654680657 | background | background | background | 5 |
|     | ENSG00000167664.8 | -3.145269437 | NA         | background | background | background |
|     | ENSG00000167676.4 | 1.0857325 | background | NA | background | 5 |
|     | ENSG00000167703.14 | 1.165665213 | background | background | background | 5 |
|     | ENSG00000167767.13 | 2.037871184 | background | background | background | 4 |
|     | ENSG00000167772.11 | -1.837737364 | background | background | background | 5 |
|     | ENSG00000167780.11 | -1.700533684 | background | background | background | background |
|     | ENSG00000167800.9 | -1.275901687 | background | background | background | background |
|     | ENSG00000167895.14 | -1.170566119 | background | background | background | background |
|     | ENSG00000167964.12 | -1.114466726 | background | background | background | background |
|     | ENSG00000168077.13 | -1.105960809 | NA | background | background | 5 |
|     | ENSG00000168303.6 | -1.704174716 | NA | background | background | 5 |
|     | ENSG00000168427.8 | 3.395117526 | background | background | background | background |
|     | ENSG00000168490.13 | 1.633686262 | background | background | background | background |
| Ensembl Transcript ID | Value | P | Adjusted P | Volcano Score | Log2 Fold Change | Benjamini-Hochberg Adjusted P |
|----------------------|-------|---|------------|---------------|------------------|--------------------------|
| ENSEMBL00000168621.14 | 1.387561204 | NA | background | background | 5 | background |
| ENSEMBL00000168672.3 | 1.211274873 | NA | background | background | 5 | background |
| ENSEMBL00000168675.18 | -1.603606575 | 1.110084506 | background | background | 4 | background |
| ENSEMBL00000168679.17 | 1.023646622 | NA | background | background | 5 | background |
| ENSEMBL00000168961.16 | 1.805540944 | NA | background | background | 5 | background |
| ENSEMBL00000168993.14 | 1.110084506 | NA | background | background | 4 | background |
| ENSEMBL00000169085.11 | -1.344348121 | NA | background | background | 4 | background |
| ENSEMBL00000169429.10 | 1.548906338 | NA | background | background | 4 | background |
| ENSEMBL00000169499.14 | -1.39920585 | NA | background | background | 4 | background |
| ENSEMBL00000169507.9 | -1.054145959 | NA | background | background | 4 | background |
| ENSEMBL00000169550.12 | -1.458979302 | NA | background | background | 4 | background |
| ENSEMBL00000169562.9 | -1.03733924 | NA | background | background | 4 | background |
| ENSEMBL00000169583.12 | -1.205630871 | NA | background | background | 4 | background |
| ENSEMBL00000169692.12 | -1.64563992 | NA | background | background | 4 | background |
| ENSEMBL00000169826.7 | 1.06540944 | NA | background | background | 4 | background |
| ENSEMBL00000170099.5 | -1.43274747 | NA | background | background | 4 | background |
| ENSEMBL00000170153.10 | 2.537123578 | NA | background | background | 4 | background |
| ENSEMBL00000170324.20 | 2.051985827 | NA | background | background | 4 | background |
| ENSEMBL00000170325.14 | 1.023800047 | NA | background | background | 4 | background |
| ENSEMBL00000170379.19 | -1.167915904 | NA | background | background | 4 | background |
| ENSEMBL00000170396.7 | 1.706595024 | NA | background | background | 4 | background |
| ENSEMBL00000170482.16 | -1.298797794 | NA | background | background | 4 | background |
| ENSEMBL00000170498.8 | 1.455810971 | NA | background | background | 4 | background |
| ENSEMBL00000170525.19 | -1.861266281 | NA | background | background | 4 | background |
| ENSEMBL00000170537.12 | 1.730553569 | NA | background | background | 4 | background |
| ENSEMBL00000170542.5 | -1.32286039 | NA | background | background | 4 | background |
| ENSEMBL00000170734.11 | 1.075630807 | NA | background | background | 4 | background |
| ENSEMBL00000170915.8 | -1.221914347 | NA | background | background | 4 | background |
| ENSEMBL00000171056.7 | 1.93355571 | NA | background | background | 4 | background |
| ENSEMBL00000171097.13 | -1.100187466 | NA | background | background | 4 | background |
| ENSEMBL00000171219.8 | 2.118739814 | NA | background | background | 5 | background |
| ENSEMBL00000171223.5 | 1.133056997 | NA | background | background | 5 | background |
| ENSEMBL00000171227.6 | -1.235023444 | NA | background | background | 5 | background |
| ENSEMBL00000171345.13 | 1.218306578 | NA | background | background | 5 | background |
| ENSEMBL00000171345.13 | 1.218306578 | NA | background | background | 5 | background |
| ENSEMBL00000171346.15 | 3.492341967 | NA | background | background | 5 | background |
| ENSEMBL00000171444.17 | 1.400894333 | NA | background | background | 5 | background |
| ENSEMBL00000171469.10 | 1.01035419 | NA | background | background | 5 | background |
| ENSEMBL00000171540.7 | 3.570633421 | NA | background | background | 5 | background |
| ENSEMBL00000171722.12 | 3.18344496 | NA | background | background | 5 | background |
| Gene ID          | Value 1           | Value 2           | Value 3           | Value 4           | Value 5           |
|-----------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| ENSG00000171766.15 | -1.045589055      | 5                 | background        | background        | 5                 |
| ENSG00000171817.16 | 1.295131159       | background        | background        | background        | 5                 |
| ENSG00000171840.11 | -1.447348241      | background        | background        | background        | 5                 |
| ENSG00000171877.20 | 1.373286996       | background        | background        | background        | 5                 |
| ENSG00000172014.12 | 1.134548689      | background        | background        | background        | 5                 |
| ENSG00000172215.5 | 2.211168682       | NA                | background        | background        | 5                 |
| ENSG00000172296.12 | -1.120675462      | background        | background        | background        | 5                 |
| ENSG00000172346.14 | 2.066969274       | background        | background        | background        | 5                 |
| ENSG00000172379.20 | 1.643564647       | background        | background        | 5                 | 5                 |
| ENSG00000172456.17 | -1.1374284       | background        | background        | background        | 4                 |
| ENSG00000172482.4 | -1.22630976      | background        | background        | background        | 5                 |
| ENSG00000172738.11 | 1.633431204      | background        | background        | 5                 | 5                 |
| ENSG00000172765.16 | -1.825619206      | background        | background        | 5                 | 5                 |
| ENSG00000172771.11 | -1.078103539      | 5                 | background        | background        | 4                 |
| ENSG00000172889.15 | -1.566645687      | background        | background        | background        | 5                 |
| ENSG00000173110.7 | 2.763308552       | NA                | background        | background        | background        |
| ENSG00000173156.6 | 1.970023889       | background        | background        | background        | background        |
| ENSG00000173212.4 | 1.347394858       | background        | background        | 5                 | 5                 |
| ENSG00000173338.12 | 2.120922525       | NA                | background        | background        | background        |
| ENSG00000173546.7 | 1.592612066       | background        | background        | 5                 | 5                 |
| ENSG00000173559.12 | 1.027261001       | background        | background        | background        | background        |
| ENSG00000173714.7 | 2.719304619       | NA                | background        | background        | background        |
| ENSG00000173821.19 | 1.155079264       | background        | background        | 4                 | 5                 |
| ENSG00000173846.12 | 1.682618654       | background        | background        | 5                 | 5                 |
| ENSG00000173991.5 | 1.255425609       | NA                | background        | background        | background        |
| ENSG00000174669.11 | -1.093515584      | background        | background        | background        | background        |
| ENSG00000174807.3 | -1.379035171      | NA                | background        | background        | background        |
| ENSG00000174938.14 | -1.00823953      | background        | background        | 5                 | 5                 |
| ENSG00000174992.7 | -2.192407608      | background        | background        | background        | background        |
| ENSG00000175003.12 | 1.652082643       | background        | background        | background        | background        |
| ENSG00000175170.14 | 2.066233726       | background        | background        | 5                 | 5                 |
| ENSG00000175183.9 | -1.085440814      | background        | background        | 5                 | 5                 |
| ENSG00000175206.10 | 1.32509223       | NA                | background        | background        | background        |
| ENSG00000175356.12 | 2.379452828       | background        | background        | 4                 | 5                 |
| ENSG00000175505.10 | 1.575489271       | background        | background        | background        | background        |
| ENSG00000175513.9 | 1.79302037       | background        | background        | background        | background        |
| ENSG00000175592.8 | 1.751230339      | NA                | background        | background        | background        |
| ENSG00000175899.14 | -1.435548912      | background        | background        | 5                 | 5                 |
| ENSG00000175920.16 | 2.772429903       | background        | background        | background        | background        |
| ENSG00000176046.8 | 1.6206893       | NA                | background        | background        | background        |
| Gene ID   | Gene Symbol | Log2 Fold Change | Expression Level | Status  |
|----------|-------------|------------------|------------------|---------|
| ENSG00000176171.11 | background | -1.273973362 | background | background |
| ENSG00000176490.4 | NA | -1.068761462 | background | 5 5 |
| ENSG00000176495.3 | NA | 1.089296974 | background | background |
| ENSG00000176641.10 | NA | 3.711455489 | background | 4  |
| ENSG00000176919.11 | background | -1.347576993 | background | background |
| ENSG00000177076.5 | background | 1.721451082 | background | 5 5 |
| ENSG00000177098.8 | background | 2.0886741 | background | 5 5 |
| ENSG00000177181.14 | background | -1.403046126 | background | background |
| ENSG00000177374.12 | NA | 2.132703861 | background | background |
| ENSG00000177455.12 | background | -2.476335918 | background | background |
| ENSG00000177606.6 | background | 1.721451082 | background | 5 5 |
| ENSG00000177679.15 | background | -1.96152861 | background | background |
| ENSG00000177984.6 | background | -1.81116207 | background | background |
| ENSG00000178342.4 | NA | 1.719561345 | NA | NA 5 |
| ENSG00000178573.6 | NA | 1.437198771 | background | background |
| ENSG00000179023.8 | NA | 1.529880399 | background | background |
| ENSG00000179029.14 | background | -1.07810797 | background | background |
| ENSG00000179222.17 | background | -1.196152861 | background | background |
| ENSG00000179256.2 | background | -2.077899618 | background | background |
| ENSG00000179630.10 | background | 1.11528029 | background | 5 5 |
| ENSG00000179636.14 | background | -2.084576746 | background | background |
| ENSG00000179776.17 | background | -2.956798901 | background | background |
| ENSG00000179817.5 | NA | 2.427316944 | background | background |
| ENSG00000179921.14 | background | 1.360993363 | background | background |
| ENSG00000180155.19 | background | 1.027013113 | background | background |
| ENSG00000180340.6 | background | -2.009261622 | background | background |
| ENSG00000180432.5 | NA | -1.693781809 | background | background |
| ENSG00000180532.10 | background | 2.40400867 | background | background |
| ENSG00000180573.9 | NA | 1.67505845 | background | background |
| ENSG00000180596.7 | NA | 1.74654537 | background | background |
| ENSG00000180767.9 | background | -1.031193435 | background | background |
| ENSG00000180871.7 | background | 5.017531824 | background | background |
| ENSG00000180891.12 | background | 1.010650363 | background | background |
| ENSG00000180929.5 | NA | 2.457083089 | background | background |
| ENSG00000181240.13 | background | -1.503372168 | background | background |
| ENSG00000181577.15 | background | -1.795599735 | background | background |
| ENSG00000181649.5 | NA | 1.169172303 | background | background |
| ENSG00000181773.6 | NA | 1.388684306 | background | background |
| ENSG00000181982.18 | background | -1.323298756 | background | background |
| ENSG00000182022.17 | background | -1.155616296 | background | 4 4 |
| ENSG00000182162.10 | NA | -1.209813809 | background | background |
| ENSG00000182162.10     | -1.209813809 | NA  | background | background | background | background |
|------------------------|--------------|-----|------------|------------|------------|------------|
| ENSG00000182175.13     | 2.127941469  | background | background | background | background | background |
| ENSG00000182183.14     | 1.910637084  | background | background | background | 5          | 5          |
| ENSG00000182308.6      | 2.158048017  | NA  | background | background | background | background |
| ENSG00000182324.6      | 1.442773578  | background | background | background | 5          | 3          |
| ENSG00000182472.8      | -1.314731776 | background | background | background | background | background |
| ENSG00000182575.7      | -1.1196967   | NA  | background | background | 5          | 5          |
| ENSG00000182752.9      | 2.790907892  | 5   | background | background | 5          | 5          |
| ENSG00000183018.8      | 1.240209418  | background | background | background | 5          | 5          |
| ENSG00000183072.9      | 2.415594225  | NA  | background | background | background | background |
| ENSG00000183077.15     | -1.002729731 | background | background | background | background | background |
| ENSG00000183826.16     | 1.016848324  | background | background | 5          | 5          | 5          |
| ENSG00000184226.14     | 1.271831269  | background | background | 4          | 4          | 4          |
| ENSG00000184254.16     | 3.310335462  | background | background | 4          | 4          | 4          |
| ENSG00000184260.5      | -1.28374369  | NA  | NA         | NA         | background | background |
| ENSG00000184371.13     | 1.034106126  | background | background | background | background | background |
| ENSG00000184471.7      | 1.776432892  | NA  | background | background | background | background |
| ENSG00000184492.6      | 1.904110369  | NA  | background | background | background | background |
| ENSG00000184659.4      | 1.642372182  | NA  | background | background | background | background |
| ENSG00000184678.10     | 2.571597157  | NA  | background | background | background | background |
| ENSG00000184898.6      | -1.011813702 | background | background | background | background | background |
| ENSG00000184922.13     | 1.208418609  | background | background | background | background | background |
| ENSG00000184985.16     | 5.116531263  | background | background | 4          | 4          | 4          |
| ENSG00000184986.10     | -1.421830948 | NA  | background | background | background | background |
| ENSG00000185013.16     | 1.032163318  | background | background | 4          | 4          | 4          |
| ENSG00000185055.10     | 1.369729189  | background | background | 5          | 5          | 5          |
| ENSG00000185105.5      | 1.647829763  | NA  | background | background | background | background |
| ENSG00000185155.11     | -1.08018549  | NA  | background | background | background | background |
| ENSG00000185340.15     | 1.116158968  | background | background | background | background | background |
| ENSG00000185386.14     | 2.581620112  | background | background | background | background | background |
| ENSG00000185614.4      | 1.691317816  | NA  | background | background | background | background |
| ENSG00000185633.10     | -1.752144651 | background | background | background | background | background |
| ENSG00000185668.7      | 2.259937933  | NA  | background | background | background | background |
| ENSG00000185669.5      | 1.382858811  | NA  | background | background | background | background |
|    | ENSG00000185745.9 | -1.072486098 | NA | background | background | background |
|---|------------------|-------------|----|------------|------------|------------|
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| 123 | ENSG00000185761.10 | 1.04939982 | 5 | background | background | background |
| 123 | ENSG00000185933.6 | 3.752313264 | background | background | background | background |
| 123 | ENSG00000185955.4 | 3.4173315 | background | background | background |
| 123 | ENSG00000186340.14 | 1.330694028 | background | background | background |
| 123 | ENSG00000186352.8 | -1.196106549 | background | background | background | background |
| 123 | ENSG00000186517.13 | 1.989690666 | background | background | background | background |
| 123 | ENSG00000186583.7 | 1.567175286 | background | background | background | background |
| 123 | ENSG00000186765.11 | 1.557715832 | background | background | background | background |
| 123 | ENSG00000186868.15 | -1.027708671 | background | background | background | background |
| 123 | ENSG00000186910.3 | -1.657265461 | background | background | background | background |
| 123 | ENSG00000186918.13 | -1.921147427 | background | background | background | background |
| 123 | ENSG00000186994.11 | 2.030208762 | background | background | background | background |
| 123 | ENSG00000187017.15 | -1.562899616 | background | background | background | background |
| 123 | ENSG00000187045.16 | -1.25750056 | background | background | background |
| 123 | ENSG00000187193.8 | -1.015961362 | background | background | background | background |
| 123 | ENSG00000187259.5 | 2.398667538 | background | background | background | background |
| 123 | ENSG00000187595.15 | -1.189162942 | background | background | background | background |
| 123 | ENSG00000187808.4 | -1.434316642 | background | background | background | background |
| 123 | ENSG00000187837.3 | 1.44887521 | NA | NA | background | background |
| 123 | ENSG00000187959.9 | -2.281599082 | background | background | background | background |
| 123 | ENSG00000188051.6 | -1.019532359 | background | background | background | background |
| 123 | ENSG00000188060.7 | -1.25750056 | NA | background | background | background |
| 123 | ENSG00000188064.9 | 1.59803118 | background | background | background | background |
| 123 | ENSG00000188322.4 | 1.00439494 | background | background | background | background |
| 123 | ENSG00000188338.14 | -1.05561667 | background | background | background | background |
| 123 | ENSG00000188385.11 | 1.369745153 | background | background | background | background |
| 123 | ENSG00000188396.3 | 2.004880429 | NA | background | background | background |
| 123 | ENSG00000188549.12 | 1.842912675 | background | background | background | background |
| 123 | ENSG00000188582.8 | -1.239630711 | NA | background | background | background |
| 123 | ENSG00000188641.12 | -1.66281598 | background | background | background | background |
| 123 | ENSG00000188981.10 | 1.06762896 | background | background | background | background |
| 123 | ENSG00000189269.12 | 1.408528982 | background | background | background | background |
| 123 | ENSG00000189410.11 | 2.289653653 | background | background | background | background |
| 123 | ENSG00000196110.7 | 1.307972061 | background | NA | background | background |
| 123 | ENSG00000196337.11 | 6.142998509 | NA | background | background | background |
| 123 | ENSG00000196557.12 | 1.060789816 | background | background | background | background |
| 123 | ENSG00000196562.14 | 2.038421616 | background | background | background | background |
| 123 | ENSG00000196660.10 | -1.656752629 | NA | background | background | background |
| Ensembl | Gene ID       | Gene Symbol | Description | Expression Value | Region Count | Background | Count |
|---------|--------------|-------------|-------------|------------------|--------------|------------|-------|
| ENSG0000019678.14 | 1.268094314 | background | background | background | 4 |
| ENSG0000019672.8  | -2.13434972  | NA          | NA          | background | background | background | background |
| ENSG00000197019.4 | 1.130547588  | NA          | NA          | background | background | background | background |
| ENSG00000197093.10 | 2.733426607  | background | background | background | background | background | background |
| ENSG00000197121.14 | 1.169621618  | background | background | background | 5 | 5 |
| ENSG00000197238.4  | -1.113536124 | NA          | background | background | background | background | background |
| ENSG00000197272.2  | -2.276569652 | background | background | background | background | background | background |
| ENSG00000197324.8  | 1.33775255   | background | background | background | background | background | background |
| ENSG00000197444.9  | -1.008142541 | background | background | background | 5 |
| ENSG00000197483.9  | 1.171236378  | NA          | background | background | 4 |
| ENSG00000197496.5  | -1.46137097  | background | background | background | 5 |
| ENSG00000197622.12 | 1.129854884  | background | background | background | background | background | background |
| ENSG00000197852.9  | 1.768392035  | NA          | background | background | 5 |
| ENSG00000197903.7  | 1.071707446  | NA          | NA          | background | background | background | background |
| ENSG00000198026.7  | 1.010156438  | background | background | background | 5 |
| ENSG00000198099.8  | -1.101583955 | background | background | background | 5 |
| ENSG00000198208.11 | 1.05754531   | background | background | background | background | background | background |
| ENSG00000198417.6  | -1.483795232 | NA          | background | background | background | background | background |
| ENSG00000198691.11 | -2.319940444 | background | background | background | 5 |
| ENSG00000198720.12 | 1.497377875  | 5 background | background | background | 5 |
| ENSG00000198753.11 | 1.284197011  | 5 background | background | background | 5 |
| ENSG00000198756.10 | 1.119701636  | background | background | background | 5 |
| ENSG00000198785.4  | 1.618693905  | background | background | background | 5 |
| ENSG00000198814.12 | -1.02938359  | background | background | background | 5 |
| ENSG00000198848.12 | 1.11544292   | background | background | background | 5 |
| ENSG00000198865.9  | -1.149624647 | background | background | background | 5 |
| ENSG00000203690.11 | -2.412811009 | background | background | background | background |
| ENSG00000203811.1  | 1.564954522  | NA          | background | background | background |
| ENSG00000203852.3  | 1.564954522  | NA          | background | background | background |
| ENSG00000204052.4  | 1.838822717  | background | background | background | background |
| ENSG00000204103.3  | 2.0839978    | NA          | background | background | background |
| ENSG00000204252.13 | 2.310933759  | background | background | background | background |
| ENSG00000204444.10 | -1.57864482  | background | background | background | background |
| ENSG00000204472.12 | -2.062702546 | background | background | background | background |
| ENSG00000204613.10 | -1.06423044  | background | background | background | background |
| ENSG00000204616.10 | -1.692730338 | background | background | background | 4 |
| ENSG00000204653.9  | -1.718922961 | background | background | background | background |
| ENSG00000204866.8  | -4.260452821 | background | background | background | 5 |
| ENSG00000204869.8  | 1.361848402  | background | background | background | 5 |
| ENSG00000204920.10 | 1.166201522  | background | background | background | background |
| ENSG00000204978.2  | -1.703286178 | NA          | background | background | background |
| ENSG00000205090.8 | 1.002670759 | background | background | background | background |
| ENSG00000205129.8 | -2.015307286 | background | background | background | background |
| ENSG00000205336.11 | 2.408877918 | background | background | background | background |
| ENSG00000205362.11 | -1.70675598 | NA | background | background | background |
| ENSG00000205364.3 | -1.187207601 | NA | background | background | background |
| ENSG00000205436.7 | -1.248802704 | background | background | background | background |
| ENSG00000205544.3 | -1.487091964 | background | background | background | background |
| ENSG00000205669.2 | -3.347644267 | NA | background | background | background |
| ENSG00000205861.11 | 1.409353811 | background | background | background | background |
| ENSG00000205978.5 | -2.182472174 | background | background | background | background |
| ENSG00000211584.13 | 1.074469359 | NA | background | background | background |
| ENSG00000212901.3 | 1.133150584 | NA | background | background | background |
| ENSG00000213190.3 | 1.406813083 | NA | background | background | background |
| ENSG00000213213.13 | -1.809207833 | background | background | background | background |
| ENSG00000213694.3 | 2.75837449 | NA | background | background | background |
| ENSG00000213760.10 | 1.28784976 | background | background | background | background |
| ENSG00000213901.10 | 1.45490728 | background | background | background | background |
| ENSG00000213903.8 | 1.85105205 | NA | background | background | background |
| ENSG00000213906.9 | 1.703543559 | NA | background | background | background |
| ENSG00000214140.10 | 2.534133628 | NA | background | background | background |
| ENSG00000214274.9 | -1.614331712 | NA | background | background | background |
| ENSG00000214290.8 | -1.048007523 | background | background | background | background |
| ENSG00000214376.5 | 2.04140604 | NA | background | background | background |
| ENSG00000215529.12 | 2.772505341 | background | background | NA | background |
| ENSG00000215906.8 | -1.826177798 | background | NA | NA | background |
| ENSG00000216588.8 | -1.22762751 | background | background | background | background |
| ENSG00000219481.10 | 1.034676098 | background | background | background | background |
| ENSG00000219607.3 | -1.091630378 | NA | background | background | background |
| ENSG00000219626.8 | 1.26332299 | NA | background | NA | background |
| ENSG00000222017.1 | 1.061411401 | background | background | background | background |
| ENSG00000221968.8 | 1.406281354 | background | background | background | background |
| ENSG00000221195.5 | 1.226422685 | NA | background | background | background |
| ENSG00000222009.8 | 1.538732715 | background | background | background | background |
| ENSG00000223573.6 | 2.803033595 | background | background | background | background |
| ENSG00000224383.7 | 1.461717388 | background | background | background | background |
| ENSG00000225180.7 | -3.527767194 | background | background | background | background |
| ENSG00000225190.10 | 1.063835897 | S | background | background | background |
| ENSG00000225950.8 | 4.913836297 | NA | background | background | background |
| ENSG00000226321.5 | -1.738929429 | background | background | background | background |
| ENSG00000227471.8 | 1.139612286 | background | NA | NA | background |
|      | ENSG00000266524.2 | -2.190022147 | background | background | background | 5 |
|------|------------------|--------------|------------|------------|------------|---|
|      | ENSG00000266964.5 | -2.676975833 | background | background | background | 5 |
|      | ENSG00000267041.5 | 1.102905945  | background | background | background | 5 |
|      | ENSG00000267467.3 | -3.777198637 | background | background | background | 5 |
|      | ENSG00000269720.2 | 2.121951855  | background | NA         | NA         | 5 |
|      | ENSG00000270299.1 | 1.198687274  | NA         | background | 5          | 4 |
|      | ENSG00000270882.2 | 1.27697631   | background | background | background | 5 |
|      | ENSG00000271425.7 | 1.073844855  | background | NA         | NA         | 5 |
|      | ENSG00000274750.2 | 1.308235314  | NA         | background | 5          | 4 |
|      | ENSG00000274810.4 | 1.547019648  | background | NA         | NA         | 5 |
|      | ENSG00000275152.4 | -1.186731884 | background | background | background | 5 |
|      | ENSG00000277639.2 | 1.548484842  | background | background | background | 5 |
|      | ENSG00000279493.1 | -1.618334921 | background | NA         | background | 5 |
|      | ENSG00000282936.1 | 1.238269784  | NA         | NA         | background | 5 |
|      | ENSG00000282988.1 | 1.369758528  | background | background | background | 5 |
|      | ENSG00000283071.1 | -2.17248879  | background | background | background | 5 |
|      | ENSG00000283247.1 | -4.296394059 | background | background | background | 5 |
|      | ENSG00000283321.1 | 2.655594472  | background | NA         | background | 4 |
|      | ENSG00000285957.10 | -1.145866175 | background | background | 5          | 4 |
|      | ENSG000002861656.9 | -1.516425054 | background | background | background | 5 |
|      | ENSG00000271246.10 | -1.252254829 | background | background | 5          | 4 |
|      | ENSG00000279308.16 | -1.531091655 | background | background | 5          | 4 |
|      | ENSG00000284110.10 | -1.678410341 | background | background | 4          | 4 |
|      | ENSG00000092607.13 | -1.001629329 | background | 4          | 4          | 4 |
|      | ENSG00000099953.9 | -1.060538582 | background | background | 5          | 5 |
|      | ENSG00000099998.17 | 1.02746279   | background | background | 5          | 5 |
|      | ENSG00000100784.10 | -1.463089233 | background | 5          | 3          | 3 |
|      | ENSG00000101162.3 | -1.746623688 | background | background | 5          | 5 |
|      | ENSG00000104081.13 | -1.121208284 | background | background | 5          | 4 |
|      | ENSG00000104419.14 | -1.628195775 | background | background | 4          | 4 |
|      | ENSG00000104765.15 | -1.359433024 | background | background | 5          | 4 |
|      | ENSG00000105808.13 | -1.219487972 | background | 5          | 4          | 4 |
|      | ENSG00000107159.12 | -2.217348491 | background | background | 4          | 4 |
|      | ENSG00000109107.13 | -1.159880318 | background | background | 5          | 5 |
|      | ENSG00000110245.11 | -1.149324581 | background | background | background | 5 |
|      | ENSG00000110436.11 | -1.265917257 | background | 4          | 4          | 4 |
|      | ENSG00000111452.12 | -1.315134343 | background | background | 5          | 3 |
|      | ENSG00000113083.13 | -1.281704736 | background | background | 5          | 4 |
|      | ENSG00000114166.7 | -1.114230509 | background | background | 5          | 4 |
| Accession       | Gene ID       | Value        | Test Description | Fold Change | P-Value | q-Value |
|-----------------|---------------|--------------|------------------|-------------|---------|---------|
| ENSG00000114268.11 | -1.307845334  | background   | background        | 5           | 4       |
| ENSG00000114698.14 | -1.277229459  | background   | background        | 5           | 4       |
| ENSG00000118520.14 | -1.109121664  | background   | background        | 5           | 4       |
| ENSG00000118922.17 | -1.168843292  | 5            | background        | 4           | 3       |
| ENSG00000119681.11 | 1.55331842    | 5            | background        | 4           | 4       |

... (rest of the table)
| Gene ID | Symbol | Description | Log2 Fold Change | p-value | Expression Level | Chromosome | Region |
|---------|--------|-------------|-----------------|---------|-----------------|------------|--------|
| ENSG00000163586.9 | background | background | background | 4 |
| ENSG00000163687.13 | background | background | background | 5 |
| ENSG00000165507.8 | background | background | background | 5 |
| ENSG00000165953.9 | background | background | background | 4 |
| ENSG00000166046.10 | background | background | background | 4 |
| ENSG00000166984.11 | background | background | background | 3 |
| ENSG00000167772.11 | background | background | background | 5 |
| ENSG00000167780.11 | background | background | background | 5 |
| ENSG00000167800.9 | background | background | background | 5 |
| ENSG00000167895.14 | background | background | background | 4 |
| ENSG00000169429.10 | background | background | background | 5 |
| ENSG00000169499.14 | background | background | background | 4 |
| ENSG00000169692.12 | background | background | background | 4 |
| ENSG00000170525.19 | background | background | background | 4 |
| ENSG00000171346.15 | background | background | background | 4 |
| ENSG00000172771.11 | background | background | background | 4 |
| ENSG00000176978.13 | background | background | background | 5 |
| ENSG00000179583.18 | background | background | background | 5 |
| ENSG00000179636.14 | background | background | background | 4 |
| ENSG00000180432.5 | background | background | background | 4 |
| ENSG000001805189.5 | background | background | background | 4 |
| ENSG00000182022.17 | background | background | background | 2 |
| ENSG00000182472.8 | background | background | background | 5 |
| ENSG00000183032.11 | background | background | background | 5 |
| ENSG00000184454.6 | background | background | background | 4 |
| ENSG00000186910.3 | background | background | background | 4 |
| ENSG00000186918.13 | background | background | background | 4 |
| ENSG00000187726.8 | background | background | background | 4 |
| ENSG00000188177.13 | background | background | background | 4 |
| ENSG00000188818.12 | background | background | background | 4 |
| ENSG00000189410.11 | background | background | background | 4 |
| ENSG00000197816.13 | background | background | background | 4 |
| ENSG00000204653.9 | background | background | background | 4 |
| ENSG00000218001.8 | background | background | background | 4 |
| ENSG00000219818.13 | background | background | background | 4 |
| ENSG00000248905.8 | background | background | background | 4 |
| ENSG00000250644.3 | background | background | background | 5 |
| ENSG00000257315.2 | background | background | background | 5 |
| ENSG00000265817.2 | background | background | background | 4 |
| ENSG00000266964.5 | background | background | background | 5 |
| ENSG00000273173.5 | background | background | background | 4 |
| ENSG0000004777.18 | background | background | background | 4 |
| ENSG0000005981.12 | background | background | background | 4 |
|   | ENSG00000006327.13 | 1.088593536 | NA  | background | background | background | background |   |
|---|-------------------|-------------|-----|------------|------------|------------|------------|---|
| 125 | ENSG00000006652.13 | 1.171012316 | 5   |            | 5          | background | background | 4 |
| 125 | ENSG00000008056.13 | 2.111793219 |     |            | background | background | background | 4 |
| 125 | ENSG00000011347.9 | -1.36599949 |     |            | background | background | background | 4 |
| 125 | ENSG00000013364.18 | 1.020240528 |     |            | background | background | background | 5 |
| 125 | ENSG00000013588.7 | 2.482698802 |     |            | background | background | background | background |
| 125 | ENSG00000019186.9 | 1.211534029 |     |            | background | background | background | 5 |
| 125 | ENSG00000026652.13 | 3.077182919 |     |            | 4          | 4          |            |   |
| 125 | ENSG00000027869.11 | 1.285400157 |     |            | 5          |            |            |   |
| 125 | ENSG00000028277.21 | 2.053806999 |     |            | 5          | 5          |            |   |
| 125 | ENSG00000047365.11 | 2.038971428 |     |            | 4          |            |            |   |
| 125 | ENSG00000049130.14 | 1.197828667 |     |            | 4          |            |            |   |
| 125 | ENSG00000049769.12 | 1.073746402 |     |            | 5          |            |            |   |
| 125 | ENSG00000052344.15 | -1.115270523 |     |            | background | background | background |   |
| 125 | ENSG00000054356.13 | -2.604153117 |     |            | 5          |            |            |   |
| 125 | ENSG00000054598.6 | 1.075119069 |     | NA         | background | background | background |   |
| 125 | ENSG00000055573.12 | 1.829757205 |     |            | background | background | background | 4 |
| 125 | ENSG00000055957.10 | -1.47535167 |     |            | background | background | background |   |
| 125 | ENSG00000057593.13 | -1.264952129 |     |            | background | background | background | 5 |
| 125 | ENSG00000061656.9 | -1.943985979 |     |            | background | background | background |   |
| 125 | ENSG00000063438.16 | -1.138223363 |     |            | background | background | background | 5 |
| 125 | ENSG00000064687.12 | -1.170388632 |     |            | background | background | background |   |
| 125 | ENSG00000066468.22 | -1.237314089 |     | NA         | 5          | background | background | 4 |
| 125 | ENSG00000066813.14 | -1.562695518 |     |            | background | background | background | 4 |
| 125 | ENSG00000067057.16 | 1.104967454 |     |            | background | background | background | 5 |
| 125 | ENSG00000069667.15 | -1.305061402 |     |            | background | background | background | 4 |
| 125 | ENSG00000070915.9 | -1.480714471 |     |            | background | background | background | 5 |
| 125 | ENSG00000071242.11 | -2.592386739 |     |            | background | background | background | 4 |
| 125 | ENSG00000071246.10 | -1.272700362 |     |            | background | background | background | 5 |
| 125 | ENSG00000072858.10 | 2.588040806 |     | 5          | background | background | background | 5 |
| 125 | ENSG00000074211.13 | -1.147699463 |     |            | background | background | background | 5 |
| 125 | ENSG00000078401.6 | 1.087192381 |     |            | background | background | background |   |
| 125 | ENSG00000078898.6 | -1.178572913 |     |            | background | background | background |   |
| 125 | ENSG00000079263.18 | 2.365629533 |     | 5          | background | background | background | 4 |
| 125 | ENSG00000079308.16 | -1.521668007 |     |            | background | background | background | 5 |
| 125 | ENSG00000079393.20 | 1.353600499 |     |            | background | background | background |   |
| 125 | ENSG00000081051.7 | -1.14331663 |     | 5          | background | background | background | 5 |
| 125 | ENSG00000082068.8 | -1.16076931 |     | 4          | background | background | background | 3 |
| 125 | ENSG00000083290.19 | 2.176384858 |     |            | background | background | background | 4 |
| 125 | ENSG00000084110.10 | -1.488150529 |     | 5          | background | background | background | 4 |
| 125 | ENSG00000085276.17 | 1.881112932 |     | 4          | background | background | background | 3 |
| ID             | Value     | Description | Status | Background | Count |
|----------------|-----------|-------------|--------|------------|-------|
| ENSG00000086159.12 | -2.217    | NA          | background | background | 5     |
| ENSG00000087074.7 | 1.116     | NA          | background | background | 4     |
| ENSG00000088756.12 | 2.632     | background | background | background | 5     |
| ENSG00000089356.18 | -3.267    | background | background | background | 5     |
| ENSG00000089723.9 | 1.146     | background | background | background | 5     |
| ENSG00000091138.12 | -3.162    | background | background | background | 5     |
| ENSG00000091490.10 | 1.061     | background | background | background | 4     |
| ENSG00000091513.14 | -1.007    | background | background | background | 4     |
| ENSG00000091986.15 | 1.964     | background | background | background | 5     |
| ENSG00000092621.12 | -1.029    | background | background | background | 5     |
| ENSG00000095752.6 | 1.760     | background | background | background | 4     |
| ENSG00000096433.10 | 1.048     | background | background | background | 5     |
| ENSG00000098889.8 | 1.478     | background | background | background | 5     |
| ENSG00000099840.13 | -1.696    | background | background | background | 5     |
| ENSG00000099998.17 | 1.459     | background | background | background | 5     |
| ENSG00000100079.6 | -1.847    | background | background | background | 4     |
| ENSG00000100373.9 | -1.039    | background | background | background | 5     |
| ENSG00000100628.11 | 1.858     | background | background | background | 5     |
| ENSG00000100665.11 | -1.342    | background | background | background | 5     |
| ENSG00000100784.10 | -1.343    | background | background | background | 4     |
| ENSG00000100916.13 | -1.085    | background | background | background | 5     |
| ENSG00000101000.5 | 1.379     | background | background | background | 5     |
| ENSG00000101162.3 | -1.949    | background | background | background | 4     |
| ENSG00000101188.4 | 2.173     | background | background | background | 4     |
| ENSG00000101200.5 | -2.111    | background | background | background | 5     |
| ENSG00000101265.15 | 1.308     | background | background | background | 5     |
| ENSG00000101928.12 | 1.125     | background | background | background | 5     |
| ENSG00000102032.12 | 1.051     | background | background | background | 5     |
| ENSG00000102053.12 | -1.016    | background | background | background | 5     |
| ENSG00000102057.9 | 2.189     | background | background | background | 5     |
| ENSG00000102265.11 | 1.059     | background | background | background | 5     |
| ENSG00000102554.13 | 1.475     | background | background | background | 5     |
| ENSG00000103316.10 | -1.424    | background | background | background | 5     |
| ENSG00000103723.12 | 1.391     | background | background | background | 4     |
| ENSG00000103740.9 | -1.705    | background | background | background | 5     |
| ENSG00000104055.15 | 1.462     | background | background | background | 5     |
| ENSG00000104419.14 | -1.775    | background | background | background | 5     |
| ENSG00000104537.16 | -1.271    | background | background | background | 5     |
| ENSG00000104765.15 | -1.611    | background | background | background | 5     |
| ENSG00000105270.14 | 1.239     | background | background | background | 5     |
| ENSG00000105289.14 | -1.289    | background | background | background | 5     |
| ID            | Value     | Background | Background | Background | Background |
|---------------|-----------|------------|------------|------------|------------|
| ENSG00000105369.9 | 1.332658051 | background | background | background | background |
| ENSG00000105464.3 | 1.318447206 | background | background | background | background |
| ENSG00000105499.13 | 1.120948045 | background | NA         | background | background |
| ENSG00000105707.13 | -1.427861637 | background | background | background | background |
| ENSG00000105808.13 | -1.32598388 | background | background | background | background |
| ENSG00000105825.11 | 1.808682139 | NA         | background | background | background |
| ENSG00000106327.12 | -1.217365652 | background | background | background | background |
| ENSG00000106415.12 | 1.112797415 | background | background | background | background |
| ENSG00000106715.12 | -3.043151359 | background | background | background | background |
| ENSG00000106731.12 | 3.408982027 | background | background | background | background |
| ENSG00000106751.4 | 1.331358575 | background | background | background | background |
| ENSG00000106769.9 | -1.176026384 | background | background | background | background |
| ENSG00000106813.10 | -1.375485094 | background | background | background | background |
| ENSG00000106840.15 | -1.022281713 | background | background | background | background |
| ENSG00000106932.11 | 1.288617838 | background | background | background | background |
| ENSG00000106910.11 | -1.517577637 | background | background | background | background |
| ENSG00000106958.8 | -1.140749192 | background | background | background | background |
| ENSG00000106975.8 | -1.140749192 | background | background | background | background |
| ENSG00000107010.12 | 1.08106989 | background | background | background | background |
| ENSG00000107243.11 | -1.546419307 | background | background | background | background |
| ENSG00000107244.6 | -1.886395045 | background | background | background | background |
| ENSG00000107245.11 | -1.905907005 | background | background | background | background |
| ENSG00000107436.11 | -1.681819121 | background | background | background | background |
| ENSG00000107145.7 | 1.581150262 | background | background | background | background |
| ENSG00000107181.12 | -1.254932337 | background | background | background | background |
| ENSG0000010859.16 | -1.034937542 | NA         | background | background | background |
| ENSG0000010869.13 | 1.365958368 | background | background | background | background |
| ENSG00000108699.7 | 1.16850584 | background | background | background | background |
| ENSG00000108746.15 | -1.444303492 | background | background | background | background |
| ENSG00000108749.9 | -1.311536168 | background | background | background | background |
| ENSG00000108795.19 | 2.429073521 | background | background | background | background |
| ENSG00000108844.10 | 1.43499726 | background | background | background | background |
| Gene Name | Log2Ratio | Description | Chromosome | Gene Length |
|-----------|-----------|-------------|------------|-------------|
| ENSG00000116254.17 | 1.178444682 | background | background | background | 5 |
| ENSG00000116701.14 | 2.968238067 | background | background | background | 4 |
| ENSG00000116741.7 | 1.276428638 | background | background | background | 4 |
| ENSG00000117834.12 | -1.087144277 | background | background | background | background | 5 |
| ENSG00000118520.14 | -2.276487337 | background | background | background | 5 |
| ENSG00000119681.11 | 1.708490745 | background | background | background | 5 |
| ENSG00000119938.8 | -1.383436314 | NA | background | background | background | 4 |
| ENSG00000120738.7 | 1.476456682 | NA | background | background | background | 4 |
| ENSG00000120833.13 | 1.393343444 | background | background | background | background | 4 |
| ENSG00000120875.8 | -1.394146661 | background | background | background | background | 5 |
| ENSG00000120937.8 | 2.956461266 | NA | background | background | background | 5 |
| ENSG00000121858.10 | -1.315469516 | background | background | background | background | 4 |
| ENSG00000121966.6 | 1.801575335 | NA | background | background | background | 5 |
| ENSG00000122121.10 | -1.294962257 | background | background | background | background | 5 |
| ENSG000001222194.18 | -1.239411895 | background | background | background | background | 4 |
| ENSG000001222861.15 | 1.156790666 | background | background | background | background | 5 |
| ENSG00000122861.15 | 2.956461266 | NA | background | background | background | 5 |
| ENSG00000123999.4 | -1.915711808 | NA | background | background | background | 5 |
| ENSG00000124143.10 | 1.170999871 | background | background | background | background | 4 |
| ENSG00000124253.10 | -1.94538153 | background | background | background | background | 5 |
| ENSG00000124635.8 | 1.551779913 | NA | NA | NA | background | 5 |
| ENSG00000124713.5 | -1.306143518 | background | background | background | background | 5 |
| ENSG00000124766.6 | 1.787248971 | NA | background | background | background | 5 |
| ENSG00000124839.12 | -1.057942541 | background | background | background | background | 5 |
| ENSG00000124882.3 | 1.697262122 | background | background | background | background | 5 |
| ENSG00000125144.13 | -1.732190059 | NA | background | background | background | 5 |
| ENSG000001255772.12 | 1.361393327 | background | background | background | background | 5 |
| ENSG00000125848.9 | 1.12149162 | background | background | background | background | 5 |
| ENSG00000125872.7 | 1.49105596 | background | background | background | background | 5 |
| ENSG00000125910.5 | 2.740266266 | NA | background | background | background | 5 |
| ENSG00000126218.11 | -1.050943536 | background | background | background | background | 5 |
| ENSG00000126259.19 | -1.61308717 | background | background | background | background | 5 |
| ENSG00000127528.5 | 1.28190397 | background | background | background | background | 5 |
| ENSG00000127578.6 | -1.070085817 | NA | background | background | background | 5 |
| ENSG00000127743.5 | 1.994405719 | background | background | background | background | 5 |
| ENSG00000127955.15 | 1.292967126 | S | background | background | background | 5 |
| Gene ID       | Value      | Column Width | Background 1 | Background 2 | Background 3 | Background 4 |
|--------------|------------|--------------|--------------|-------------|-------------|-------------|
| ENSG00000130158.13 | -1.090266323 | 5            | background   | background   | background   | 5           |
| ENSG00000130427.2  | -1.287864385 | background   | background   | background   | 5           |
| ENSG00000130598.15 | -1.016816811 | background   | NA           | background   | 3           |
| ENSG00000130635.15 | 1.135604607  | background   | background   | background   | 5           |
| ENSG00000130649.9  | -4.098982787 | background   | background   | background   | 3           |
| ENSG00000130653.15 | -2.018705877 | background   | background   | background   | 4           |
| ENSG00000130701.3  | -1.674306728 | background   | background   | background   | 5           |
| ENSG00000130821.15 | -1.120080436 | background   | background   | background   | background   |
| ENSG00000130822.15 | -2.350580252 | background   | background   | background   | 5           |
| ENSG00000130997.16 | -1.236456018 | background   | NA           | background   | 4           |
| ENSG00000131016.16 | 1.584215521  | background   | 5            | background   | 4           |
| ENSG00000131375.9  | -1.41429994  | 4            | background   | background   | 4           |
| ENSG00000131386.17 | -1.349924862 | background   | background   | background   | 4           |
| ENSG00000131482.9  | -2.736126868 | background   | background   | background   | 5           |
| ENSG00000131711.14 | 1.050605548  | background   | background   | 5            |
| ENSG00000131746.12 | 2.174371566  | background   | background   | background   | 5           |
| ENSG00000131781.12 | -1.646420645 | background   | background   | background   | 4           |
| ENSG00000132744.7  | -1.652438097 | background   | background   | background   |
| ENSG00000132854.18 | -1.079412481 | background   | background   | background   | 5           |
| ENSG00000133454.15 | 2.91727256   | 5            | background   | background   | 4           |
| ENSG00000133985.2  | 1.07254684   | NA           | background   | background   | 5           |
| ENSG00000134256.12 | -3.221426727 | NA           | background   | background   | 5           |
| ENSG00000134668.12 | 1.88575106   | background   | background   | background   | 4           |
| ENSG00000134954.14 | 2.526303705  | background   | background   | background   | 4           |
| ENSG00000135046.13 | 1.163359161  | 5            | background   | background   | 5           |
| ENSG00000135074.15 | 1.891049935  | background   | background   | background   | 4           |
| ENSG00000135373.12 | 1.741905599  | background   | background   | background   | 5           |
| ENSG00000135625.7  | 2.552438375  | NA           | background   | background   |
| ENSG00000135636.13 | -3.172092545 | 5            | background   | background   | 4           |
| ENSG00000135919.12 | 1.154274399  | background   | background   | background   | 5           |
| ENSG00000136286.14 | -2.435279601 | background   | background   | background   |
| ENSG00000136869.13 | 2.216876989  | 5            | background   | background   | 5           |
| ENSG00000136883.13 | -1.418846189 | background   | background   | background   |
| ENSG00000137078.8  | -2.07139487  | background   | background   | background   |
| ENSG00000137204.14 | -1.156313709 | background   | background   | background   |
| ENSG00000137460.8  | 1.524402591  | background   | background   | background   | 5           |
| ENSG00000137491.14 | -1.187319698 | background   | background   | background   | 5           |
| ENSG00000137809.16 | 1.558765851  | background   | background   | background   | 5           |
| ENSG00000137869.14 | -1.290117196 | background   | background   | background   | 5           |
| ENSG00000137941.16 | 2.067697825  | 5            | background   | background   | 4           |
| ENSG00000138119.16 | 2.385320978  | background   | NA           | background   | 4           |
| 125 | ENSG00000138166.5 | 1.646960788 | 5 | background | background | 5 |
| 125 | ENSG00000138640.14 | -1.128358171 | background | background | background | 4 |
| 125 | ENSG00000138678.10 | 1.78423942 | 5 | background | background | 4 |
| 125 | ENSG00000138772.12 | 1.97704808 | 5 | background | background | 5 |
| 125 | ENSG00000138823.13 | -1.094103059 | background | background | background | 5 |
| 125 | ENSG00000139209.15 | -1.049198384 | background | background | background | 5 |
| 125 | ENSG00000139219.17 | -1.479493894 | background | background | background | 5 |
| 125 | ENSG00000139278.9 | 2.039811129 | 5 | background | background | 4 |
| 125 | ENSG00000139410.14 | 1.050465735 | background | background | background | 4 |
| 125 | ENSG00000139428.11 | -1.042869959 | background | background | background | 5 |
| 125 | ENSG00000139625.12 | 1.362586605 | background | background | background | 4 |
| 125 | ENSG00000140090.17 | -1.003787717 | background | background | background | 5 |
| 125 | ENSG00000140297.12 | 2.109913786 | background | background | background | 4 |
| 125 | ENSG00000140450.8 | 1.022639054 | 5 | background | background | 5 |
| 125 | ENSG00000140678.16 | -1.295796284 | background | background | background | 5 |
| 125 | ENSG00000140682.18 | 1.374448744 | background | background | background | 5 |
| 125 | ENSG00000140839.11 | -1.589994352 | background | background | background | 5 |
| 125 | ENSG00000141682.11 | 1.131022926 | NA | background | background | 5 |
| 125 | ENSG00000142182.8 | -1.06445921 | background | background | background | 5 |
| 125 | ENSG00000142227.10 | 1.617146396 | background | background | background | 5 |
| 125 | ENSG00000142449.12 | -2.576775468 | background | background | background | 4 |
| 125 | ENSG00000142549.9 | -1.68731821 | background | NA | background | 5 |
| 125 | ENSG00000142611.16 | -1.94881522 | 5 | background | background | 5 |
| 125 | ENSG00000142871.16 | 1.561881977 | 5 | background | background | 5 |
| 125 | ENSG00000143590.13 | -1.218352 | background | background | background | 5 |
| 125 | ENSG00000143632.14 | 3.126871571 | background | background | background | 5 |
| 125 | ENSG00000143797.11 | -2.308521945 | 5 | background | background | 4 |
| 125 | ENSG00000144152.12 | -1.653577087 | background | background | background | 4 |
| 125 | ENSG00000144834.13 | 2.178929692 | background | background | background | 5 |
| 125 | ENSG00000145087.12 | 2.329585164 | 5 | background | background | 5 |
| 125 | ENSG00000145107.15 | 2.16788358 | background | background | background | 4 |
| 125 | ENSG00000145192.12 | -1.03642409 | background | background | background | 5 |
| 125 | ENSG00000145391.13 | 1.55037184 | background | background | background | 5 |
| 125 | ENSG00000145506.13 | -1.054973121 | background | background | background | 5 |
| 125 | ENSG00000145632.14 | 1.206283436 | background | background | background | 5 |
| 125 | ENSG00000145692.14 | -1.457047724 | background | background | background | 5 |
| 125 | ENSG00000146386.7 | 1.003975003 | 5 | background | background | 5 |
| 125 | ENSG00000146592.16 | 1.594540307 | background | background | background | 4 |
| 125 | ENSG00000146678.9 | -2.113145345 | background | background | background | 5 |
| 125 | ENSG00000146700.8 | -1.272739426 | background | background | background | 5 |
| Gene ID          | Log2 Fold Change | Background | Background | Background | Background |
|-----------------|------------------|------------|------------|------------|------------|
| ENSG00000147174.11 | 1.076315339      | background | background | background | background |
| ENSG00000147883.10 | 1.843872406      | NA         | background | background | background |
| ENSG00000148123.14 | -2.134256385     | background | background | background | background |
| ENSG00000148677.6 | 1.61031028       | NA         | background | background | background |
| ENSG00000148798.10 | 1.54064625       | background | background | background | background |
| ENSG00000149043.16 | -1.485573757     | background | background | background | background |
| ENSG00000149177.12 | -2.493441686     | background | background | background | background |
| ENSG00000149403.12 | -1.51184094      | background | background | background | background |
| ENSG00000149527.17 | 1.459367711      | background | background | background | background |
| ENSG00000149564.11 | 2.232956548      | background | background | background | background |
| ENSG00000149591.16 | 2.096657787      | background | background | background | background |
| ENSG00000149572.11 | 1.708989965      | background | background | background | background |
| ENSG00000149606.7 | -1.115628486     | background | background | background | background |
| ENSG00000150312.13 | 1.141681805      | background | background | background | background |
| ENSG00000152137.6 | 2.299716843      | background | background | background | background |
| ENSG00000152154.10 | -1.64062629      | NA         | background | background | background |
| ENSG00000152217.16 | -2.136758126     | background | background | background | background |
| ENSG00000152256.13 | -1.251649072     | background | background | background | background |
| ENSG00000153162.8 | 1.464451354      | background | background | background | background |
| ENSG00000153902.13 | -2.704547872     | background | background | background | background |
| ENSG00000153992.20 | -2.247367476     | S          | NA         | NA         | NA         |
| ENSG00000154447.14 | 1.650598259      | background | background | background | background |
| ENSG00000154545.16 | -1.0931791       | background | background | background | background |
| ENSG00000154548.8 | 1.572759353      | background | background | background | background |
| ENSG00000156096.13 | -1.115921952     | background | background | background | background |
| ENSG00000156127.6 | 2.163048559      | NA         | background | background | background |
| ENSG00000156222.11 | -2.650719066     | background | background | background | background |
| ENSG00000156535.13 | 1.413529022      | background | background | background | background |
| ENSG00000157087.17 | -1.104038424     | background | background | background | background |
| ENSG00000157168.18 | 3.006409838      | background | background | background | background |
| ENSG00000157303.10 | -1.449271389     | background | background | background | background |
| ENSG00000157514.16 | 1.039428315      | background | background | background | background |
| ENSG00000158296.13 | -1.224020755     | background | background | background | background |
| ENSG00000158445.9 | 2.21628097       | NA         | background | background | background |
| ENSG00000158859.9 | 1.519546944      | background | background | background | background |
| ENSG00000159261.10 | -2.752646348     | NA         | background | background | background |
| ENSG00000159650.8 | -1.674672924     | background | background | background | background |
| ENSG00000160183.13 | -1.229652121     | background | background | background | background |
| ENSG00000160255.17 | -1.295626536     | background | background | background | background |
| ENSG00000160323.18 | -1.553237196     | background | background | background | background |
| Accession       | Value   | Fold Change | p Value | Log2 Fold Change |
|----------------|---------|-------------|---------|-----------------|
| ENSG00000160712 | 1.02508 | background  | 5       | 4               |
| ENSG00000160716 | 2.21836 | background  | 5       | 5               |
| ENSG00000160972 | -1.00874| background  | 5       | 5               |
| ENSG00000160999 | -1.20164| background  | 5       | 5               |
| ENSG00000161031 | -2.07086| background  | 5       | 5               |
| ENSG00000161082 | -1.05335| background  | 5       | 5               |
| ENSG00000161638 | 1.30802 | background  | 5       | 5               |
| ENSG00000161647 | 1.79124 | background  | 5       | 5               |
| ENSG00000161714 | 1.07296 | background  | 5       | 5               |
| ENSG00000161791 | 1.10113 | background  | 5       | 5               |
| ENSG00000161958 | -1.80799| background  | 5       | 5               |
| ENSG00000162391 | 1.08094 | background  | 5       | 5               |
| ENSG00000162458 | 1.25989 | background  | 5       | 5               |
| ENSG00000162849 | 1.78454 | background  | 4       | 5               |
| ENSG00000162909 | 1.47171 | background  | 5       | 5               |
| ENSG00000162975 | 2.23840 | NA          | 5       | 5               |
| ENSG00000163191 | 1.78269 | background  | 5       | 5               |
| ENSG00000163460 | 1.12481 | background  | 5       | 5               |
| ENSG00000163501 | -1.00108| background  | 5       | 5               |
| ENSG00000163586 | -1.68691| background  | 4       | 5               |
| ENSG00000163735 | 1.74370 | background  | 5       | 5               |
| ENSG00000163803 | 1.12481 | background  | 5       | 5               |
| ENSG00000163959 | -1.27435| background  | 5       | 5               |
| ENSG00000164007 | -1.17039| background  | 5       | 5               |
| ENSG00000164251 | 1.96497 | NA          | 5       | 5               |
| ENSG00000164406 | -1.46641| background  | 5       | 5               |
| ENSG00000164442 | -1.27900| NA          | 5       | 5               |
| ENSG00000164638 | -1.44411| background  | 5       | 5               |
| ENSG00000164849 | -1.19844| NA          | 5       | 5               |
| ENSG00000164972 | -1.32835| background  | 5       | 5               |
| ENSG00000165046 | 2.10568 | background  | 4       | 5               |
| ENSG00000165269 | 1.13930 | background  | 5       | 5               |
| ENSG00000165272 | 2.09180 | background  | 5       | 5               |
| ENSG00000165507 | -1.18937| NA          | 5       | 5               |
| ENSG00000165757 | 2.36982 | background  | 4       | 5               |
| ENSG00000165801 | -1.03957| background  | 5       | 5               |
| ENSG00000165863 | -1.52032| background  | 5       | 5               |
| ENSG00000165953 | -2.44053| background  | 5       | 5               |
| Gene ID            | Value         | Background | Background | Background |
|-------------------|---------------|------------|------------|------------|
| ENSG00000166035.10 | -1.004447031  | background | background | background |
| ENSG00000166145.14 | 1.362357889   | background | background | background |
| ENSG00000166401.14 | -1.004447031  | background | background | background |
| ENSG00000166532.15 | 1.8981921     | background | background | background |
| ENSG00000166592.11 | 1.723155378   | background | background | background |
| ENSG00000166979.12 | -1.637160488  | background | background | background |
| ENSG00000167244.18 | 1.056140844   | background | background | background |
| ENSG00000167552.13 | 1.169050468   | background | background | background |
| ENSG00000167660.13 | 1.27305977    | background | background | background |
| ENSG00000167601.11 | 1.287402074   | background | background | background |
| ENSG00000167644.11 | 1.20596129    | background | background | background |
| ENSG00000167701.13 | -1.022579852  | background | background | background |
| ENSG00000167767.13 | 1.588371204   | background | background | background |
| ENSG00000167772.11 | -2.13455974   | background | background | background |
| ENSG00000167780.11 | 1.298560641   | background | background | background |
| ENSG00000167800.9  | 1.004447031   | background | background | background |
| ENSG00000167889.12 | 1.547804693   | background | background | background |
| ENSG00000167964.12 | 1.499507527   | background | background | background |
| ENSG00000168209.4  | -1.074078204  | background | background | background |
| ENSG00000168490.13 | 1.398016587   | background | background | background |
| ENSG00000169174.10 | -1.049252791  | background | background | background |
| ENSG00000169213.6  | 1.465464635   | background | background | background |
| ENSG00000169429.10 | 2.135770767   | background | background | background |
| ENSG00000169499.14 | -1.4811115203 | background | background | background |
| ENSG00000169548.3  | 1.320289957   | background | background | background |
| ENSG00000169550.12 | -1.401595423  | NA         | background | background |
| ENSG00000169692.12 | -1.103952352  | background | background | background |
| ENSG00000169715.14 | -1.094241949  | NA         | background | background |
| ENSG00000169992.9  | -1.092544124  | background | background | background |
| ENSG00000170099.5  | -1.461338594  | S          | background | background |
| ENSG00000170396.7  | 2.027645143   | background | background | background |
| ENSG00000170482.16 | -1.062238006  | background | background | background |
| ENSG00000170525.19 | -1.286431752  | background | background | background |
| ENSG00000170537.12 | 1.399198623   | background | background | background |
| ENSG00000170542.5  | -1.001304316  | background | background | background |
| ENSG00000170921.15 | 2.443223254   | background | background | background |
| ENSG00000171223.5  | 1.083163329   | NA         | background | background |
| ENSG00000171227.6  | -1.163282431  | NA         | background | background |
| Gene ID                  | Value        | Type | Value 2 | Type 2 | Value 3 | Type 3 | Value 4 | Type 4 |
|-------------------------|--------------|------|---------|--------|---------|--------|---------|--------|
| ENSG00000171345.13      | 1.46560642   | NA   | background | background | background | background | background | background |
| ENSG00000171345.13      | 3.45629546   | 5    | background | background | background | background | background | background |
| ENSG00000171840.11      | -1.173878971 | background | background | background | background | background | background | background |
| ENSG00000171877.20      | 1.200109768  | 4    | background | background | background | background | background | background |
| ENSG00000172296.12      | -1.01589463  | 5    | background | background | background | background | background | background |
| ENSG00000172367.15      | -1.984991055 | 5    | background | background | background | background | background | background |
| ENSG00000172482.4       | -1.308437141 | background | background | background | background | background | background | background |
| ENSG000001733212.4      | 1.357550595  | 5    | background | background | background | background | background | background |
| ENSG00000173559.12      | 1.624338654  | 5    | background | background | background | background | background | background |
| ENSG0000017367.14       | -1.665210788 | background | background | background | background | background | background | background |
| ENSG00000173846.12      | 1.367595362  | background | background | background | background | background | background | background |
| ENSG00000173930.8       | -1.218482397 | 5    | background | background | background | background | background | background |
| ENSG00000174326.11      | -1.46479087  | background | background | background | background | background | background | background |
| ENSG00000174669.11      | -1.109809817 | background | background | background | background | background | background | background |
| ENSG00000174807.3       | -1.043819373 | NA   | background | background | background | background | background | background |
| ENSG00000174827.13      | -1.035011169 | background | background | background | background | background | background | background |
| ENSG00000174992.7       | -1.616655218 | background | background | background | background | background | background | background |
| ENSG00000175505.10      | 1.681414946  | background | background | background | background | background | background | background |
| ENSG00000175544.13      | -3.711275861 | background | background | background | background | background | background | background |
| ENSG00000175592.8       | 1.259368948  | NA   | background | background | background | background | background | background |
| ENSG00000176014.12      | 1.31975022   | 5    | background | background | background | background | background | background |
| ENSG00000176171.11      | -1.182820563 | background | background | background | background | background | background | background |
| ENSG00000176490.4       | -1.216870367 | NA   | background | background | background | background | background | background |
| ENSG00000176845.12      | 1.192171806  | background | background | background | background | background | background | background |
| ENSG00000176978.13      | -1.079690037 | background | background | background | background | background | background | background |
| ENSG00000177181.14      | -1.738237633 | NA   | background | background | background | background | background | background |
| ENSG00000177374.12      | 1.174283049  | NA   | background | background | background | background | background | background |
| ENSG00000177455.12      | -1.108685821 | 5    | background | background | background | background | background | background |
| ENSG00000177679.15      | -2.738058033 | background | background | background | background | background | background | background |
| ENSG00000178150.9       | 1.173392915  | background | background | background | background | background | background | background |
| ENSG00000179256.2       | -2.036591634 | NA   | background | background | background | background | background | background |
| ENSG00000179636.14      | -1.630900182 | background | background | background | background | background | background | background |
| Gene ID          | Log2 Fold Change | 5% FDR | 0.1% FDR | 5% Benjamini | 0.1% Benjamini |
|-----------------|-----------------|--------|---------|-------------|---------------|
| ENSG00000179817.5 | 3.563028439     | NA     | background | background | background |
| ENSG00000180340.6 | -1.693392853    | NA     | background | background | background |
| ENSG00000180432.5 | -2.09841862     | NA     | background | 5           | 4             |
| ENSG00000180573.9 | 1.148984417     | NA     | background | background | background |
| ENSG00000181409.11 | -1.041860937   | background | background | 4           | 4             |
| ENSG00000182022.17 | -1.380260767    | background | background | 4           | 4             |
| ENSG00000182162.10 | -1.188782069    | NA     | background | background | 5             |
| ENSG00000182459.4  | 1.104802266     | NA     | background | background | background |
| ENSG00000182472.8  | -1.027078258    | background | background | 5           | 5             |
| ENSG00000182685.7  | -1.012311548    | background | 5         | background | 5             |
| ENSG00000182963.9  | 1.350868312     | NA     | background | background | background |
| ENSG00000183032.11 | -1.213845728    | background | background | 3           | 3             |
| ENSG00000183134.4  | -1.443466765    | NA     | background | background | background |
| ENSG00000183145.8  | 1.025987332     | background | background | background | background |
| ENSG00000183317.16 | 1.509913842     | NA     | background | 5           | 5             |
| ENSG00000183549.10 | -1.087123336    | background | background | 5           | 5             |
| ENSG00000183747.11 | -1.43096201     | background | background | 4           | 4             |
| ENSG00000183773.15 | -1.09251325     | background | background | 5           | 5             |
| ENSG00000184454.6  | -1.66784407     | background | background | 4           | 4             |
| ENSG00000184489.11 | -1.937102632    | background | background | 5           | 5             |
| ENSG00000184871.10 | 1.356819896     | NA     | background | background | background |
| ENSG00000184956.15 | 2.106076668     | background | background | background | background |
| ENSG00000184986.10 | -1.344992175    | NA     | background | background | background |
| ENSG00000185000.11 | -1.001238635    | background | background | 4           | 4             |
| ENSG00000185133.13 | -1.319873709    | background | background | 4           | 4             |
| ENSG00000185215.8  | -1.674069529    | background | 5         | 5           | 5             |
| ENSG00000185332.6  | -3.476032004    | background | background | background | background |
| ENSG00000185538.4  | -1.31679737     | NA     | background | background | background |
| ENSG00000185633.10 | -1.806147359    | background | background | 4           | 4             |
| ENSG00000185745.9  | -1.096792538    | NA     | background | background | 4             |
| ENSG00000185760.15 | 3.995497411     | background | background | 4           | 4             |
| ENSG00000185989.10 | 1.912452813     | background | background | 4           | 4             |
| ENSG00000186204.14 | -1.131012918    | background | background | 5           | 5             |
| ENSG00000186340.14 | 1.404605562     | background | background | 5           | 5             |
| ENSG00000186532.8  | -1.124803529    | background | background | 5           | 5             |
| ENSG00000186409.14 | 1.161390568     | 5      | NA       | background | 4             |
| ENSG00000186868.15 | -1.034984543    | background | background | 4           | 4             |
| ENSG00000186910.3  | -1.195964133    | background | background | 5           | 5             |
| ENSG00000186918.13 | -1.664510779    | background | background | 5           | 5             |
| Gene ID         | Value   | Background 1 | Background 2 | Background 3 | Background 4 |
|---------------|---------|--------------|--------------|--------------|--------------|
| ENSG00000187017.15 | -1.492218987 | background | background | background | 5            |
| ENSG00000187045.16 | -1.432081392 | 5           | background | background | 3            |
| ENSG00000187726.8  | -1.362765377 | background | background | background | 5            |
| ENSG00000187800.13 | 1.765421999  | background | background | background | 5            |
| ENSG00000187808.4  | -1.184637481 | NA          | background | background | background |
| ENSG00000187959.9  | -1.666117727 | background | background | background | background |
| ENSG00000188015.9  | 1.661811855  | background | background | background | background |
| ENSG00000188060.7  | -1.167362987 | NA          | background | background | background |
| ENSG00000188064.9  | 1.709920485  | background | background | background | 5            |
| ENSG00000188112.8  | 1.075630155  | background | NA          | background | 5            |
| ENSG00000188257.10 | 1.146583967  | background | background | background | 5            |
| ENSG00000188322.4  | -1.146121016 | background | background | background | 5            |
| ENSG00000188338.14 | -1.175248206 | background | background | background | background |
| ENSG00000188549.12 | 1.812575187  | background | background | background | background |
| ENSG00000189120.4  | 1.684940139  | NA          | background | background | 5            |
| ENSG00000189350.12 | 1.997683177  | 5           | background | background | 4            |
| ENSG00000189410.11 | 2.2846804    | background | background | background | background |
| ENSG00000196132.11 | -2.421109982 | 5           | background | background | 4            |
| ENSG00000196159.11 | -2.008718722 | background | background | background | 4            |
| ENSG00000196188.10 | 1.940752457  | background | background | background | background |
| ENSG00000196555.12 | 1.392596416  | background | background | background | 5            |
| ENSG00000196628.15 | 1.832089781  | background | background | 5           | 4            |
| ENSG00000196660.10 | -1.671265419 | NA          | background | background | 4            |
| ENSG00000196754.10 | 1.909775419  | background | background | background | background |
| ENSG00000196878.14 | 2.344810138  | background | background | background | 5            |
| ENSG00000197093.10 | 1.129861392  | background | background | background | background |
| ENSG00000197496.5  | -1.07293654  | background | background | 5           | 5            |
| ENSG00000197580.11 | 1.297225553  | background | background | background | 5            |
| ENSG00000197780.9  | 1.034028656  | background | background | background | background |
| ENSG00000197956.9  | 1.303451892  | NA          | background | background | background |
| ENSG00000198363.17 | 1.122451312  | background | background | 4           | 4            |
| ENSG00000198417.6  | -2.04977495  | NA          | background | background | background |
| ENSG00000198870.7  | -1.149077902 | 5           | background | background | 5            |
| ENSG00000198910.12 | 1.685417029  | background | background | 5           | 5            |
| ENSG00000203896.9  | -1.01596368  | background | background | background | background |
| ENSG00000203985.10 | -1.173762308 | background | background | background | background |
| ENSG00000204444.10 | -1.28071522  | background | background | background | background |
| ENSG00000204531.17 | -1.211346494 | background | background | background | background |
| ENSG00000204653.9  | -1.257117859 | background | background | background | background |
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| ENSG00000205364.3  | -2.908233737 | NA          | background | background | background |
| Ensembl ID       | Value     | Background | Background | Background | Background |
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| ENSG00000205861.11 | 1.058022308 | background | background | background | 5 |
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| ENSG00000206190.11 | -1.025718758 | background | background | background | 5 |
| ENSG00000212724.3 | 1.479053536 | NA         | background | background | 5 |
| ENSG00000212901.3 | 2.332204601 | NA         | background | background | 5 |
| ENSG00000213190.3 | 1.245500891 | NA         | background | background | 5 |
| ENSG00000213213.13 | -1.201602317 | background | background | background | 5 |
| ENSG00000213366.12 | -1.002762698 | background | background | background | 5 |
| ENSG00000214274.9 | -1.15653866 | NA         | background | background | 5 |
| ENSG00000215788.9 | -1.198159012 | background | background | background | 5 |
| ENSG00000221284.5 | 1.989500535 | background | NA         | background | 5 |
| ENSG000002213186.9 | -1.202082935 | background | background | background | 5 |
| ENSG00000221852.9 | -1.294984715 | background | background | background | 5 |
| ENSG00000222055.5 | -1.397300133 | background | background | background | 5 |
| ENSG000002224067.2 | -1.07410449 | background | background | background | 5 |
| ENSG000002228594.3 | -1.352175601 | background | background | background | 5 |
| ENSG000002229089.7 | 1.449590006 | 5          | background | background | 5 |
| ENSG000002231274.5 | 1.989500535 | background | NA         | background | 5 |
| ENSG00000223315.3 | -1.099919233 | background | background | background | 5 |
| ENSG00000223502.6 | 1.769895183 | background | background | background | 5 |
| ENSG0000022365817.2 | -1.018091943 | background | NA         | NA         | 5 |
| ENSG000002246964.5 | -2.871890869 | background | background | background | 5 |
| ENSG000002247060.5 | 1.045038214 | background | background | background | 5 |
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| ENSG000002250799.9 | -1.240325112 | 5          | background | background | 5 |
| ENSG000002253313.5 | -2.236729595 | NA         | background | background | 5 |
| ENSG000002255150.2 | 2.479226898 | NA         | background | background | 5 |
| ENSG000002257108.1 | -1.58965265 | NA         | background | background | 5 |
| ENSG000002259171.1 | -1.169618748 | background | background | background | 5 |
| ENSG000002261701.6 | -1.099919233 | background | background | background | 5 |
| ENSG000002263020.6 | 1.769895183 | background | background | background | 5 |
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| ENSG000002267060.5 | 1.045038214 | background | background | background | 5 |
| ENSG000002269113.3 | -1.02103271 | background | background | background | 5 |
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| ENSG000002276076.4 | -1.949256341 | background | background | background | 5 |
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| ENSG000002279493.1 | -4.962769687 | background | NA         | background | 5 |
| Gene ID          | Value         | Status | Gene ID          | Value         | Status |
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| ENSG00000282936.1 | 1.045026542   | NA     | ENSG00000283071.1 | -1.951655847 | NA     |
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| ENSG00000013588.7 | -1.260565024  | NA     | ENSG00000019186.9 | -1.54455547  | background |
| ENSG00000028277.21 | 2.12090008   | 5      | ENSG00000035664.11 | 2.27786966  | 5      |
| ENSG00000011052.21 | -1.74362482  | 5      | ENSG00000065911.11 | -1.331174069 | background |
| ENSG00000007237.18 | 1.857819528  | 4      | ENSG00000070669.16 | -2.389569062 | 5      |
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| ENSG00000100461.17 | 1.092540643  | 5      | ENSG00000100889.11 | -1.394100146 | background |
| ENSG00000101160.13 | 1.120482372  | background |
| ENSG00000101230.5  | 1.449602994  | background |
| ENSG00000101306.10 | 5.42683023   | background |
| ENSG00000101890.4  | 4.769121555  | 5      | ENSG00000103522.15 | -1.299912545 | background |
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| ENSG00000104371.4  | 1.031413392  | background |
| ENSG00000105088.8  | 2.87559947   | background |
| ENSG00000105697.7  | -2.194231964 | NA     | ENSG00000111181.12 | 1.390253204 | 4      |
| ENSG00000111181.12 | 1.390253204  | background |
| ENSG00000111981.4  | -1.977515516 | NA     | ENSG00000112183.14 | -1.061518142 | background |
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| ENSG00000114948.12 | 2.687088389  | 5      | ENSG00000115085.13 | 1.593338637  | 5      |
| ENSG00000115392.11 | -1.002798683 | 5      | ENSG00000115738.9  | -1.117943825 | background |
| ENSG00000115738.9  | -1.117943825 | background |
| ENSG00000116254.17 | 1.452033401  | 5      | ENSG00000116329.10  | 1.368429306  | 5      |
| ENSG00000116761.11 | -1.830943163 | background |
| ENSG00000117461.14 | 1.20052219   | 5      | ENSG00000117461.14 | 1.20052219  | 5      |
| ENSG00000117461.14 | 1.20052219   | 5      |  |  |  |
| ENSG00000121075.9 | 1.544702053 | background | background | background | 5 |
| ENSG00000121552.3 | -2.369481058 | NA | background | background | 5 |
| ENSG00000125775.14 | 1.503936314 | 5 | background | 5 | 5 |
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| ENSG00000126709.14 | 1.285848505 | NA | background | background | 4 |
| ENSG00000127324.8 | 1.132800807 | background | background | 5 | 4 |
| ENSG00000128203.6 | 3.260920702 | NA | background | background | 5 |
| ENSG00000128285.4 | 2.815105002 | NA | 5 | background | 5 |
| ENSG00000128422.15 | 3.636481288 | background | background | background | 4 |
| ENSG00000128567.16 | 1.881952443 | background | background | background | 5 |
| ENSG00000129749.3 | 1.954854932 | background | background | background | 5 |
| ENSG00000130173.13 | -1.108415548 | background | background | background | 5 |
| ENSG00000130635.15 | 1.55879843 | 5 | background | background | 3 |
| ENSG00000130768.14 | -1.453658716 | background | background | background | 5 |
| ENSG00000131480.8 | 1.461232364 | background | background | background | 5 |
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| ENSG00000133256.12 | -1.78012098 | 5 | background | background | 4 |
| ENSG00000134622.16 | 2.237013209 | background | background | background | 5 |
| ENSG00000135069.13 | -1.0398758 | background | background | 5 | 4 |
| ENSG00000135074.15 | -1.11208556 | background | background | 5 | 3 |
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| ENSG00000135437.9 | -1.33373738 | 5 | background | background | 5 |
| ENSG00000135439.11 | 1.817679119 | background | background | 4 | 4 |
| ENSG00000136010.13 | -1.672307679 | 4 | background | 4 | 4 |
| ENSG00000136244.11 | 6.207273809 | background | background | background | 4 |
| ENSG00000137103.17 | -1.056611535 | 5 | 5 | 5 | 4 |
| ENSG00000137265.14 | 2.801167223 | background | background | 5 | 5 |
| ENSG00000137460.8 | 1.564875141 | background | background | 5 | 4 |
| ENSG00000137869.14 | -1.206039111 | 5 | background | 5 | 4 |
| ENSG00000138031.14 | 1.21846861 | 5 | background | 4 | 4 |
| ENSG00000138685.13 | 2.487072911 | background | background | background | 5 |
| ENSG00000138772.12 | -1.147132249 | background | background | background | 4 |
| ENSG00000139219.17 | 1.191610967 | background | background | background | 5 |
| ENSG00000139269.2 | -1.46690197 | NA | background | background | 5 |
| ENSG00000140044.12 | -1.23201135 | background | background | background | 4 |
| ENSG00000140403.12 | 1.474127257 | background | background | 5 | 5 |
| ENSG00000140465.13 | 1.406084959 | 5 | background | background | 4 |
| ENSG00000141934.9 | 1.571920236 | 4 | background | background | 4 |
| ENSG00000142513.5 | 3.064188724 | 5 | NA | background | 5 |
| ENSG00000142528.15 | 1.043029798 | background | background | background | 3 |
| ENSG00000143028.8 | 1.510757515 | background | background | background | 4 |
| Gene ID          | Value          | Background | Background | Background | Background |
|-----------------|----------------|------------|------------|------------|------------|
| ENSG00000143375.14 | 1.1661005      | background | background | background | 5          |
| ENSG00000144481.16 | 2.592114523    | 5          | background | background | 5          |
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| ENSG00000147262.3 | 1.12280551     | NA         | NA         | background | background |
| ENSG00000148798.10 | 1.038718198    | background | background | background | 4          |
| ENSG00000149260.15 | 1.284581033    | 5          | 3          | 5          | 3          |
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| ENSG00000150637.8  | 2.41052326     | background | background | 4          | 4          |
| ENSG00000150782.11 | -1.083228939   | background | background | 5          | 5          |
| ENSG00000151012.13 | -1.07798922    | background | background | 5          | 5          |
| ENSG00000152315.4  | 2.001688194    | NA         | background | background | 3          |
| ENSG00000154548.8  | 1.682446064    | background | background | 5          | 5          |
| ENSG00000154734.14 | 3.009505997    | 5          | background | 5          | 5          |
| ENSG00000155657.26 | -1.000368589   | 4          | background | 3          | 3          |
| ENSG00000156096.13 | 1.517345704    | 4          | background | 4          | 4          |
| ENSG00000156427.7  | 5.827125925    | background | background | 4          | 4          |
| ENSG00000157456.7  | -1.339745905   | NA         | background | 3          | 3          |
| ENSG00000158445.9  | 4.085539181    | NA         | background | 5          | 4          |
| ENSG00000158865.12 | 1.275858391    | background | background | 5          | 5          |
| ENSG00000158887.15 | 2.026662653    | 5          | 5          | background | 5          |
| ENSG00000159733.13 | 2.427925075    | background | background | 4          | 4          |
| ENSG00000160161.9  | 1.132643015    | background | background | 5          | 5          |
| ENSG00000160191.17 | -1.025698706   | background | background | 4          | 4          |
| ENSG00000160229.11 | 2.677684258    | background | NA         | 5          | 5          |
| ENSG00000161939.19 | 2.468028378    | 5          | NA         | background | 5          |
| ENSG00000162460.6  | -1.069973976   | background | background | 5          | 5          |
| ENSG00000162733.16 | 1.453621203    | background | background | 3          | 3          |
| ENSG00000162738.5  | 3.541139164    | 5          | background | 3          | 3          |
| ENSG00000163491.16 | 1.082911322    | 5          | background | 4          | 4          |
| ENSG00000163501.6  | 2.525625222    | background | NA         | background | 5          |
| ENSG00000163577.7  | 1.22207216     | background | background | 5          | 5          |
| ENSG00000163739.4  | 5.866332216    | background | background | background | 5          |
| ENSG00000163993.6  | -1.461568718   | NA         | 5          | background | 5          |
| ENSG00000164199.16 | 1.666541467    | 5          | background | 3          | 3          |
| ENSG00000164309.14 | 2.240598623    | 5          | background | 5          | 5          |
| ENSG00000165309.13 | -1.729051103   | background | background | 4          | 4          |
| ENSG00000166546.13 | -3.093960442   | background | background | 4          | 4          |
| ENSG00000166963.12 | 2.957123073    | 3          | background | 3          | 3          |
| ENSG00000167103.11 | -2.085879878   | background | background | 5          | 5          |
| Gene ID | Description | Expression Value | Background | Mean Weight | Standard Deviation |
|--------|-------------|-----------------|------------|-------------|-------------------|
| ENSG00000168743.12 | 2.591729699 | background | 5 | 5 |
| ENSG00000168993.14 | 1.026959201 | background | 4 |
| ENSG00000169429.10 | 1.166232123 | background | background | background | background | background |
| ENSG00000169583.12 | -1.128760406 | background | background | background |
| ENSG00000169692.12 | -1.007662994 | background | background |
| ENSG00000170325.14 | 1.188301514 | background | background |
| ENSG00000172927.3 | -1.814321513 | background | background |
| ENSG00000175329.12 | 1.304409226 | background | 4 |
| ENSG00000176076.7 | 1.385269126 | NA | background | background |
| ENSG00000177984.6 | -1.374776041 | background | background |
| ENSG00000179242.15 | 2.180930478 | background | background |
| ENSG00000180461.9 | -1.156622625 | background | background |
| ENSG00000180336.17 | 2.141010803 | background | background |
| ENSG0000018181016.9 | 1.381981129 | NA | background |
| ENSG00000182247.9 | 1.731296849 | background | background |
| ENSG00000182459.4 | 3.97721947 | background | background |
| ENSG00000182492.15 | 1.915420867 | background | background |
| ENSG00000183508.4 | 3.314613596 | NA | background |
| ENSG00000183638.5 | 2.602893751 | 4 | background |
| ENSG00000183647.10 | 1.571376332 | background | background |
| ENSG00000183747.11 | 1.05760589 | background | background |
| ENSG00000184060.10 | -1.448987739 | 5 | background |
| ENSG00000184163.3 | 1.15475523 | background | background |
| ENSG00000185483.11 | 1.837013079 | background | background |
| ENSG00000187764.11 | 1.012150291 | background | background |
| ENSG00000188333.9 | 1.235959292 | background | background |
| ENSG00000188859.6 | 2.259750817 | background | background |
| ENSG00000188897.8 | 3.7256708 | 4 | background |
| ENSG00000196611.4 | 4.499214797 | 5 | background |
| ENSG00000197632.8 | 8.257458387 | background | background |
| ENSG00000198691.11 | -1.592414199 | 5 | background |
| ENSG00000198707.14 | -1.264604995 | 5 | background |
| ENSG00000205364.3 | 3.758812481 | NA | background |
| ENSG00000205670.10 | 1.419889647 | background | background |
| ENSG00000205978.5 | 1.390090352 | background | background |
| ENSG00000206561.12 | 2.676081159 | background | background |
| ENSG00000213593.9 | -1.288734444 | background | background |
| ENSG00000213654.9 | 1.471359074 | background | background |
| ENSG00000213906.9 | 1.320497856 | NA | background |

Note: The table includes gene IDs, expression values, and background information with mean weight and standard deviation.
| ENSG00000213999.15 | -2.782307719 | background | background | background | 5 |
| ENSG00000214827.9 | 1.007209415 | background | background | background | 4 |
| ENSG00000221963.5 | -1.017726847 | 5 | background | background | 5 |
| ENSG00000223573.6 | 1.842262411 | background | background | background | 5 |
| ENSG00000231852.6 | 1.6755225 | background | background | background | 5 |
| ENSG00000241828.2 | -2.850758371 | 5 | background | background | 5 |
| ENSG00000249773.3 | 1.651667175 | background | background | background | 4 |
| ENSG00000254827.5 | 1.107523716 | background | background | background | 4 |
| ENSG00000255398.2 | -1.213854153 | NA | background | background | 4 |
| ENSG00000260342.2 | 2.874131145 | background | background | NA | 5 |
| ENSG00000261308.2 | 1.913193517 | NA | background | background | 5 |
| ENSG00000262660.1 | -3.634378864 | background | background | background | 5 |
| ENSG00000263620.1 | 2.82342082 | background | background | NA | 5 |
| ENSG00000267041.5 | 1.33764402 | background | background | background | 5 |
| ENSG00000270276.2 | 1.526858807 | NA | background | background | 5 |
| ENSG00000272968.5 | 3.863671702 | background | background | background | 4 |
| ENSG00000273238.2 | 3.217158991 | NA | background | background | background |
| ENSG00000274276.4 | -1.401759964 | 4 | background | background | 4 |
| ENSG00000275395.5 | 1.051090821 | 5 | NA | NA | 4 |
| ENSG00000275895.6 | 1.122553988 | background | background | background | 5 |
| ENSG00000281106.2 | 1.358145869 | NA | background | background | 3 |
| ENSG00000282804.1 | 6.095651597 | background | NA | background | 5 |
| ENSG00000284526.1 | 1.8826603 | NA | background | background | 4 |
| ENSG00000003137.8 | 2.741774858 | NA | 4 | 4 | 3 |
| ENSG00000005981.12 | 1.282780486 | 5 | background | background | 4 |
| ENSG00000010404.17 | 1.068853146 | background | 5 | 4 | 4 |
| ENSG000000011422.11 | 1.096090159 | NA | background | 5 | 4 |
| ENSG00000001364.18 | 1.077620772 | 5 | background | background | 3 |
| ENSG000000013588.7 | 1.90615386 | 4 | 5 | 4 | 4 |
| ENSG000000014914.20 | 2.04763495 | 5 | background | background | 4 |
| ENSG000000019186.9 | 1.000710159 | background | 5 | background | 4 |
| ENSG000000019485.13 | 1.141614538 | 5 | background | background | 3 |
| ENSG000000024422.11 | 1.15731134 | background | 5 | 4 | 3 |
| ENSG000000028277.21 | 1.400218868 | background | background | 4 | 3 |
| ENSG000000035862.12 | 1.018600925 | background | background | 4 | 3 |
| ENSG000000049130.14 | 1.053957389 | background | 5 | background | 4 |
| ENSG000000052344.15 | -1.436558036 | 4 | background | background | 4 |
| ENSG000000053747.15 | 1.01170948 | 5 | background | background | 3 |
| Symbol | Description | Value | Score |
|--------|-------------|-------|-------|
| ENSG00000058335.15 | 1.156638356 | 5 | background |
| ENSG0000000064300.8 | 1.73896088 | background | background |
| ENSG0000000066056.13 | 2.109497186 | 5 | background |
| ENSG0000000069696.6 | 1.492364748 | 5 | background |
| ENSG0000000069812.11 | 1.84626121 | background | background |
| ENSG0000000079263.18 | 2.423919525 | 5 | background |
| ENSG0000000079393.20 | 1.053182338 | background | background |
| ENSG0000000084731.14 | 1.035394885 | 5 | 4 | background |
| ENSG0000000092607.13 | 1.13724478 | background | background |
| ENSG0000000092621.12 | -1.079396128 | 5 | background |
| ENSG0000000095752.6 | 1.892250122 | 5 | 4 | background |
| ENSG0000000099250.17 | 1.12115403 | 5 | 5 | 4 | background |
| ENSG0000000099812.8 | 1.780160825 | 5 | background | 5 | 4 | background |
| ENSG0000000099860.8 | 1.00942075 | 5 | background | 5 | 5 |
| ENSG00000100036.12 | 1.959587769 | NA | 4 | 5 | 4 |
| ENSG000001001000.5 | 1.58553977 | background | background |
| ENSG00000101188.4 | 1.39167806 | background | background |
| ENSG00000102034.16 | 1.228835642 | 5 | 5 | 5 | background |
| ENSG00000102362.15 | 1.459005296 | background | background |
| ENSG00000102554.13 | 1.060261617 | 5 | background | 5 | 5 | background |
| ENSG00000102760.12 | 1.313101475 | NA | background | background | 4 |
| ENSG00000103044.10 | 1.876645648 | NA | background | 5 | 4 |
| ENSG00000104055.15 | 1.306797811 | 5 | background | 5 | 4 |
| ENSG00000105048.16 | 1.914083581 | 4 | 5 | background | 5 | 4 |
| ENSG00000105464.3 | 1.522517497 | 5 | background | 5 | 3 |
| ENSG00000105825.11 | 2.214080621 | NA | background | background | 3 |
| ENSG00000105974.11 | 2.011751401 | NA | background | 5 | background | 4 |
| ENSG00000106003.12 | 1.26363043 | background | background | 4 | 4 |
| ENSG00000106415.12 | 1.220844437 | 4 | 5 | background | 5 | 4 |
| ENSG00000106852.15 | 1.581092934 | background | background | 4 | 5 | 4 |
| ENSG00000106976.20 | 2.002502221 | 5 | 5 | background | 5 | 3 |
| ENSG00000107738.19 | 1.082119318 | background | background | 4 | 3 |
| ENSG00000108405.3 | -1.464217445 | 5 | 5 | background | 5 | 4 |
| ENSG00000108417.3 | 5.281665891 | background | NA | 5 | 5 |
| ENSG00000108852.14 | 1.263638887 | 4 | 4 | 4 | 3 |
| ENSG00000109846.7 | 1.968670223 | NA | background | background | 4 | 5 | background | 4 |
| Gene ID            | Value           | Background 1 | Background 2 | Background 3 | Background 4 | Background 5 |
|-------------------|-----------------|--------------|--------------|--------------|--------------|--------------|
| ENSG00000113070.7 | 1.12319955      | background   | background   | background   | 5            | background   |
| ENSG00000113369.8 | 1.023956601     | background   | background   | background   | 3            | background   |
| ENSG00000114115.9 | 1.29758451      | background   | background   | background   | 3            | background   |
| ENSG00000114923.16 | 1.945284326   | 5           | background   | background   | 3            | background   |
| ENSG00000115295.19 | 2.590867872     | background   | background   | 5            | 4            | background   |
| ENSG00000115963.13 | 1.647926786     | 4           | 5           | background   | 4            | background   |
| ENSG00000116254.17 | 1.104820585     | 4           | background   | 5            | 3            | background   |
| ENSG00000116701.14 | 2.427247172     | background   | 5           | background   | 3            | background   |
| ENSG00000116761.11 | -1.279342649    | background   | background   | background   | 4            | background   |
| ENSG00000116774.11 | 1.10461205      | 4           | 5           | background   | 4            | background   |
| ENSG00000117472.9 | 1.988251791     | background   | 5           | 5            | 4            | background   |
| ENSG00000118282.12 | 1.208527991     | 4           | background   | 5            | 3            | background   |
| ENSG00000120138.15 | 1.482334432     | background   | 4           | 5            | 4            | background   |
| ENSG00000120833.13 | 1.02307218      | 4           | 4           | 4            | 4            | background   |
| ENSG00000120875.8 | 1.470099469     | background   | 5           | 5            | 4            | background   |
| ENSG00000120937.8 | 1.521453325     | background   | background   | background   | 5            | background   |
| ENSG00000121075.9 | 1.833351959     | 5           | background   | background   | 3            | background   |
| ENSG00000121281.12 | 1.208527991     | 4           | background   | 5            | 3            | background   |
| ENSG00000122863.15 | 1.558032727     | 5           | 5           | background   | 4            | background   |
| ENSG00000124143.10 | 1.171139421     | 4           | 4           | 5            | 4            | background   |
| ENSG00000124635.8 | 1.358598101     | NA          | NA          | NA           | 4            | background   |
| ENSG00000124766.6 | 1.405190545     | NA          | 5           | 3            | 3            | background   |
| ENSG00000125872.7 | 1.270477657     | background   | 5           | 5            | 4            | background   |
| ENSG00000125966.9 | 1.39714873      | 5           | background   | 4            | 3            | background   |
| ENSG00000126353.3 | 2.12464804      | background   | 5           | 5            | 5            | background   |
| ENSG00000126882.12 | -1.327049568    | NA          | background   | 5            | 4            | background   |
| ENSG00000128285.4 | 2.294321579     | NA          | background   | 5            | 5            | background   |
| ENSG00000128510.10 | 4.360618656     | background   | background   | 5            | 4            | background   |
| ENSG00000128564.6 | 2.013444173     | NA          | 5           | background   | 4            | background   |
| ENSG00000128645.14 | -1.128618034    | NA          | 5           | background   | 5            | background   |
| ENSG00000128917.6 | 1.252246802     | background   | 5           | 5            | 5            | background   |
| ENSG00000129353.14 | 1.217999559     | 5           | background   | 4            | 4            | background   |
| ENSG00000129654.7 | 1.13667267      | background   | background   | 4            | 4            | background   |
| ENSG00000131013.76 | 1.177293828     | background   | 5           | 5            | 4            | background   |
| ENSG00000130592.15 | 1.187388866     | 4           | background   | 5            | 3            | background   |
| ENSG00000130707.17 | -1.005631765    | 5           | background   | 3            | background   | background   |
| ENSG00000130997.16 | -1.304468518    | background   | NA          | background   | 3            | background   |
| ENSG00000131016.16 | 1.418766065     | background   | 5           | background   | 3            | background   |
| ENSG00000131018.2.2 | 1.01897183      | 4           | background   | background   | 3            | background   |
| GeneID       | Score   | Background | Score   | Background |
|-------------|---------|------------|---------|------------|
| ENSG00000133985.2 | 1.432012361 | NA        | background | 4          |
| ENSG00000134013.15 | 1.220274784 | 4         | 4       | 5          |
| ENSG000001346668.12 | 2.678124175 | 5         | background | 4          |
| ENSG00000134762.16 | 2.456844992 | 5         | 5       | 5          |
| ENSG00000134954.14 | 2.50954682 | background | background | 3          |
| ENSG00000135069.13 | -1.02812544 | background | background | 4          |
| ENSG00000135439.11 | 1.191419792 | 5         | 4       | 4          |
| ENSG00000136010.13 | -1.671396032 | 4         | 3       | 3          |
| ENSG00000136717.14 | 1.066658647 | 5         | 5       | 3          |
| ENSG00000136826.14 | 2.199914874 | 5         | background | 5          |
| ENSG00000136859.9 | 1.146561765 | 4         | background | 4          |
| ENSG00000136869.13 | 2.368169226 | 5         | background | 5          |
| ENSG00000136881.11 | 1.0887659   | background | 5       | 5          |
| ENSG00000138031.14 | 1.085182218 | 4         | background | 5          |
| ENSG00000138119.16 | 2.044786949 | 5         | NA      | background | 3          |
| ENSG00000138166.5  | 2.07201153  | background | background | 5          |
| ENSG00000138613.13 | 1.412155453 | 5         | background | 4          |
| ENSG00000139112.10 | 1.010013807 | 5         | 5       | background | 5          |
| ENSG00000139278.9  | 1.374127166 | background | background | 5          |
| ENSG00000140297.12 | 1.150744938 | background | background | 5          |
| ENSG00000141753.6  | 1.382284945 | background | 5       | 4          |
| ENSG00000142227.10 | 1.469298854 | background | 5       | 5          |
| ENSG00000142871.16 | 1.312887319 | 4         | 5       | background | 4          |
| ENSG00000143127.12 | 1.185555597 | 5         | background | 4          |
| ENSG00000143217.8  | 1.021728485 | background | background | 5          |
| ENSG00000143320.8  | 1.685535544 | background | background | 5          |
| ENSG00000143632.14 | 2.078514886 | background | 5       | background | 5          |
| ENSG00000143786.7  | 1.133277126 | 5         | background | 4          |
| ENSG00000144834.13 | 1.475488467 | 4         | 4       | 5          |
| ENSG00000145391.13 | 1.131048089 | 5         | background | 5          |
| ENSG00000145632.14 | 1.039131948 | 5         | background | 5          |
| ENSG00000147883.10 | 1.746150769 | NA        | background | 4          |
| ENSG00000148876.7  | 1.349992944 | NA        | background | 4          |
| ENSG00000148978.10 | 1.165336187 | background | 5       | background | 5          |
| ENSG00000149218.4  | 1.128668442 | NA        | background | 4          |
| ENSG00000149564.11 | 1.873252248 | 5         | background | 5          |
| ENSG00000149591.16 | 1.343567318 | 4         | 4       | 4          |
| ENSG00000149968.11 | 2.700356823 | background | background | 5          |
| ENSG00000152137.6  | 2.221105945 | background | 5       | 4          |
| ENSG00000154040.20 | 1.411241036 | 5         | background | 5          |
| ENSG00000154040.20 | 1.411241036 | 5         | background | 5          |
| ENSG00000154040.20 | 1.411241036 | 5         | background | 5          |
| 135 | ENSG00000154447.14 | 1.093198222 | 5 | 5 | 4 | 4 |
|-----|------------------|-------------|---|---|---|---|
| 135 | ENSG00000154548.8 | 1.557169229 | background | 4 | background | 4 |
| 135 | ENSG00000156127.6 | 1.969331511 | NA | background | background | 4 |
| 135 | ENSG00000156265.15 | 2.671698001 | background | background | 4 | 3 |
| 135 | ENSG00000156463.17 | 1.038967158 | 4 | 4 | 5 | 3 |
| 135 | ENSG00000156535.13 | 1.259747987 | background | background | 5 | 3 |
| 135 | ENSG00000156966.6 | 1.839162629 | NA | 5 | 5 | 4 |
| 135 | ENSG00000158246.7 | 2.352465894 | NA | 5 | 5 | 4 |
| 135 | ENSG00000158825.5 | 1.002000629 | background | background | 5 | 3 |
| 135 | ENSG00000158859.9 | 1.078099879 | 5 | background | 3 | 3 |
| 135 | ENSG00000161647.18 | 1.183731891 | 5 | background | background | 4 |
| 135 | ENSG00000161791.13 | 1.232551574 | 5 | background | 4 | 3 |
| 135 | ENSG00000162383.11 | 1.347880216 | 5 | 5 | background | 3 |
| 135 | ENSG00000162614.18 | 1.010327785 | background | background | background | 4 |
| 135 | ENSG00000162645.12 | 1.135062446 | background | background | background | 3 |
| 135 | ENSG00000162825.12 | 1.44084238 | background | NA | NA | 4 |
| 135 | ENSG00000162909.17 | 1.65432962 | background | background | background | 3 |
| 135 | ENSG00000162975.4 | 2.48302026 | NA | 5 | 5 | 3 |
| 135 | ENSG00000163083.5 | 1.050152556 | NA | background | 4 | 4 |
| 135 | ENSG00000163121.9 | 1.794671962 | NA | background | background | 4 |
| 135 | ENSG00000163191.5 | 1.222708765 | NA | background | background | 4 |
| 135 | ENSG00000163406.10 | -1.297435612 | background | background | 4 |
| 135 | ENSG00000163577.7 | 1.003398548 | background | background | 4 | 4 |
| 135 | ENSG00000163694.14 | 1.223065011 | 5 | background | 4 | 4 |
| 135 | ENSG00000163739.4 | 5.637503805 | background | 5 | background | 5 |
| 135 | ENSG00000164023.14 | 1.091641424 | background | background | 4 |
| 135 | ENSG00000164251.4 | 1.611440276 | NA | background | background | 4 |
| 135 | ENSG00000164574.15 | 1.033401126 | background | background | 5 | 4 |
| 135 | ENSG00000165046.12 | 1.744063591 | background | background | background | 4 |
| 135 | ENSG00000165272.14 | 2.25831697 | background | 5 | 4 | 4 |
| 135 | ENSG00000165309.13 | -1.073393531 | 5 | background | background | 2 |
| 135 | ENSG00000165757.8 | 2.36359709 | 5 | background | 5 | 3 |
| 135 | ENSG00000165895.17 | 1.591518567 | 5 | background | background | 4 |
| 135 | ENSG00000165995.18 | 1.619109675 | background | 5 | 3 | 3 |
| 135 | ENSG00000166145.14 | 1.748936834 | background | background | 5 | 4 |
| 135 | ENSG00000166173.10 | 1.542106076 | background | background | 4 |
| 135 | ENSG00000166446.14 | 1.838366733 | 3 | background | 4 | 3 |
| 135 | ENSG00000166592.11 | 1.913306032 | 5 | background | 5 |
| 135 | ENSG00000166780.10 | 1.531730933 | background | 3 | 5 | 3 |
| 135 | ENSG00000166866.12 | 1.218681737 | 5 | 5 | 4 | 3 |
| Ensembl ID | Gene ID | Transcript ID | Log2 Fold Change | Background 1 | Background 2 | Background 3 | Background 4 | Background 5 |
|-----------|---------|---------------|------------------|--------------|--------------|--------------|--------------|--------------|
| ENSG00000167103.11 | -2.446340748 | 4 | background | 4 | 4 |
| ENSG00000167105.7 | 1.944277829 | 5 | background | 5 | 4 |
| ENSG00000167286.9 | 2.199606854 | background | background | 4 | 4 |
| ENSG00000167555.13 | 1.367956516 | background | background | 4 | 4 |
| ENSG00000167601.11 | 1.174930156 | 5 | 5 | 5 | 3 |
| ENSG00000167723.14 | 1.27408929 | background | 5 | background | 4 |
| ENSG00000167755.14 | 1.276545423 | 5 | background | 5 | 4 |
| ENSG00000167767.13 | 1.680942672 | background | background | 4 | 4 |
| ENSG00000167779.7 | 1.184997272 | background | background | 4 | 4 |
| ENSG00000168016.13 | 1.78864714 | 4 | 4 | 4 | 4 |
| ENSG00000168490.13 | 1.610982908 | background | 4 | 3 | 3 |
| ENSG00000168679.17 | 1.02265901 | background | background | background | 4 |
| ENSG00000168874.12 | 1.894490247 | NA | background | 4 | 2 |
| ENSG00000169213.6 | 1.700905433 | background | 5 | 3 | 3 |
| ENSG00000169403.11 | 1.501289767 | NA | background | background | 4 |
| ENSG00000169429.10 | 2.593457383 | background | background | background | background |
| ENSG00000170396.7 | 1.362120993 | background | background | background | 4 |
| ENSG00000170498.8 | 3.027341657 | NA | background | background | 5 |
| ENSG00000171345.13 | 1.331359855 | NA | background | background | 2 |
| ENSG00000171345.13 | 1.331359855 | background | background | background | 2 |
| ENSG00000171346.15 | 2.573543738 | background | 4 | 3 | 3 |
| ENSG00000171873.7 | 1.73784433 | NA | background | background | 3 |
| ENSG00000171877.20 | 1.528574968 | background | background | background | 4 | 3 |
| ENSG00000171992.12 | 3.01175333 | 4 | background | 5 | 3 |
| ENSG00000172346.14 | 1.45620083 | 5 | 4 | 5 | 4 |
| ENSG00000172602.9 | 1.073829012 | 5 | background | background | 4 |
| ENSG00000172803.17 | 1.152128558 | background | 5 | 5 | 4 |
| ENSG00000172927.3 | 2.372297646 | 5 | background | 5 | 4 |
| ENSG00000173212.4 | 1.247983874 | background | background | 5 | 4 |
| ENSG00000173267.13 | 2.985138723 | background | background | 5 | 5 |
| ENSG00000173702.7 | 1.577043522 | background | background | 5 | 3 |
| ENSG00000175329.12 | 1.13887213 | background | background | 5 | 4 |
| ENSG00000175505.10 | 1.15056526 | background | background | 3 | 3 |
| ENSG00000175538.10 | 1.288211669 | background | background | 4 | 4 |
| ENSG00000177098.8 | 1.384593046 | 5 | background | 4 | 4 |
| ENSG00000178386.12 | 1.186611825 | background | 5 | background | 4 |
| ENSG00000178597.6 | 2.849776005 | NA | 5 | 4 | 4 |
| ENSG00000178826.10 | 1.015932108 | 5 | background | background | 4 |
| ENSG00000179388.8 | 2.09875616 | NA | 5 | 5 | 4 |
| ENSG00000179913.10 | 1.20068331 | 5 | background | background | 2 |
| ENSG00000180596.7 | 1.157873115 | NA | background | background | 4 |
| Gene ID       | Value       | Adjusted | Standard | Log2FoldChange | Sample  | Background | Sample  | Background |
|--------------|-------------|----------|----------|----------------|---------|------------|---------|------------|
| ENSG00000180644.7 | 1.134114019 | NA       | background | 5              | 4       |
| ENSG00000182459.4  | 1.100823765 | NA       | background | 4              | 5       |
| ENSG00000182575.7  | 1.782575649 | NA       | background | 5              | 4       |
| ENSG00000182866.16 | 1.21532737  | background | 5         | background     | 5       |
| ENSG00000183018.8  | 1.326496352 | 5        | background | 5              | 4       |
| ENSG00000183840.6  | 1.21603173  | NA       | 5         | 5              | 3       |
| ENSG00000184557.4  | 1.051647634 | NA       | 5         | 4              | 4       |
| ENSG00000184574.9  | 1.353069778 | NA       | 5         | 4              | 4       |
| ENSG00000184709.7  | -1.106483646| NA       | background | 5              |         |
| ENSG00000184916.8  | 1.597950453 | S        | 5         | 5              | 3       |
| ENSG00000184922.13 | 1.044739863 | S        | 4         | 5              | 4       |
| ENSG00000185567.6  | 1.27168948  | background | background | background     | 3       |
| ENSG00000185920.15 | 1.11621028  | 5        | background | 5              | 3       |
| ENSG00000185989.10 | 2.279090342 | 5        | background | 5              | 3       |
| ENSG00000186642.15 | 1.902724753 | S        | 5         | 5              | 3       |
| ENSG00000186854.10 | 1.405135642 | background | 5         | background     | 4       |
| ENSG00000187627.15 | 1.152492653 | S        | NA        | NA             | 4       |
| ENSG00000187720.14 | 1.38432529  | 5        | background | 5              | 2       |
| ENSG00000187800.13 | 2.57805172  | 4        | 5         | 5              | 3       |
| ENSG00000187840.4  | -1.139992372| NA       | background | 4              | 3       |
| ENSG00000188015.9  | 1.954000849 | background | background | 5              | 4       |
| ENSG00000188064.9  | 1.631171826 | 5        | background | 5              | 3       |
| ENSG00000188176.11 | 1.218906522 | background | background | 5              | 4       |
| ENSG00000188766.12 | 1.993570694 | 5        | background | 4              | 4       |
| ENSG00000188833.9  | 1.241889424 | background | 5         | background     | 4       |
| ENSG00000189120.4  | 3.83104576  | NA       | 4         | 4              | 4       |
| ENSG00000189410.11 | 1.420058339 | background | background | 3              | 3       |
| ENSG00000191654.11 | 1.40939937  | background | 5         | background     | 4       |
| ENSG00000196188.10 | 2.687699463 | 4        | background | 5              | 4       |
| ENSG00000196617.11 | -1.482570094| 5        | background | 4              | 4       |
| ENSG00000196655.12 | 1.231650061 | 4        | background | 3              |         |
| ENSG00000196661.14 | 4.582862817 | background | background | 4              |         |
| ENSG00000196754.10 | 2.559192272 | 5        | background | 5              | 4       |
| ENSG00000196878.14 | 3.882577279 | 5        | background | 4              | 3       |
| ENSG00000197019.4  | 1.10998744  | NA       | background | background     | 4       |
| ENSG00000197321.14 | 1.132364103 | 4        | background | 3              |         |
| ENSG00000197632.8  | 7.449158725 | background | background | 4              |         |
| ENSG00000197956.9  | 1.410096834 | NA       | background | 5              |         |
| ENSG00000198075.9  | 1.718094175 | background | background | 5              | 4       |
| ENSG00000198417.6  | -1.126946757| NA       | 4         | 5              | 4       |
| Gene ID | Value |
|---------|-------|
| ENSG00000198838.13 | 2.181404339 |
| ENSG00000198865.9 | -1.017478228 |
| ENSG00000205670.10 | -1.394841683 |
| ENSG00000212724.3 | 1.783019159 |
| ENSG00000212901.3 | 1.264691405 |
| ENSG00000213654.9 | 2.314697127 |
| ENSG00000213999.15 | -2.399575209 |
| ENSG00000248905.8 | 1.359382363 |
| ENSG00000249319.2 | -1.350322671 |
| ENSG00000274276.4 | -1.155404893 |
| ENSG00000275832.4 | 2.205231943 |
| ENSG00000277639.2 | 2.19618005 |
| ENSG00000284461.1 | 1.327029395 |
| ENSG00000284713.1 | 1.713548677 |
| ENSG00000303137.8 | 2.107706182 |
| ENSG000003095961.17 | 1.15281127 |
| ENSG0000035981.12 | 1.181576334 |
| ENSG00000401278.12 | 1.47688212 |
| ENSG0000011052.21 | 1.050539122 |
| ENSG0000011260.13 | -1.28076301 |
| ENSG0000012504.13 | -1.165348565 |
| ENSG00000135887.7 | 1.223114888 |
| ENSG0000014914.20 | 2.087092587 |
| ENSG0000021461.16 | 2.505243797 |
| ENSG0000024422.11 | 1.168041034 |
| ENSG0000034239.10 | 1.010476211 |
| ENSG0000047365.11 | 2.86724775 |
| ENSG0000058335.15 | 1.289117506 |
| ENSG0000064300.8 | 1.235486368 |
| ENSG0000065325.12 | 2.715800116 |
| ENSG0000065911.11 | -1.414075302 |
| ENSG0000067057.16 | 1.124638649 |
| ENSG00000070669.16 | -2.268914119 | background | background | background | background |
|---------------------|-------------|------------|------------|------------|------------|
| ENSG00000074416.13 | 2.568030227 | background | background | background | 4          |
| ENSG00000076067.12 | 1.047202854 | 5          | 5          | background | background |
| ENSG00000078401.6  | 1.294021111 | background | background | background | 5          |
| ENSG00000079263.18 | 1.840861573 | background | background | background | 5          |
| ENSG00000080777.13 | 3.351964864 | background | background | background | 5          |
| ENSG00000087266.15 | -1.164295184 | background | background | background | 4          |
| ENSG00000089116.3  | 1.568428201 | background | background | background | 5          |
| ENSG00000089723.9  | 1.4312642   | 4          | background | background | 4          |
| ENSG00000091490.10 | 1.165926818 | background | background | background | 4          |
| ENSG00000092051.16 | 1.275772832 | background | background | background | background |
| ENSG00000092295.11 | 2.403790626 | background | background | background | 5          |
| ENSG00000092607.13 | 1.121897286 | background | background | background | 3          |
| ENSG00000092621.12 | -1.42664254 | 4          | background | background | 3          |
| ENSG00000099365.10 | 1.115791283 | background | background | background | 5          |
| ENSG00000099812.8  | 1.520669515 | background | background | background | 5          |
| ENSG00000100490.9  | -1.549421092 | background | background | background | 5          |
| ENSG00000100628.11 | 1.441932157 | background | background | background | 4          |
| ENSG00000100889.11 | -1.340357955 | background | background | background | 5          |
| ENSG00000101000.5  | 1.340587147 | NA         | background | background | 5          |
| ENSG00000101188.4  | 2.063351121 | background | background | background | 5          |
| ENSG00000101197.12 | 1.66566886   | background | background | background | 5          |
| ENSG00000101928.12 | 1.179901188 | background | background | background | 4          |
| ENSG00000102760.12 | 1.409858013 | NA         | background | background | 5          |
| ENSG00000103375.10 | 2.05953185  | background | background | background | 5          |
| ENSG00000103522.15 | -1.030382   | 5          | background | background | 4          |
| ENSG00000104055.15 | 2.72630868  | background | background | background | 4          |
| ENSG00000105048.16 | 1.642757673 | 5          | background | background | 5          |
| ENSG00000105246.5  | 1.230897107 | background | background | background | 5          |
| ENSG00000105278.10 | 4.29427268  | background | background | background | 5          |
| ENSG00000105464.3  | 1.06538396  | background | background | background | 5          |
| ENSG00000105499.13 | 1.084718045 | background | background | NA         | 5          |
| ENSG00000105650.21 | 1.062459388 | 5          | 5          | background | 5          |
| ENSG00000105697.7  | -1.676892542 | background | background | background | 5          |
| ENSG00000105825.11 | 2.54820392  | NA         | background | background | background |
| ENSG00000105974.11 | 2.462965445 | NA         | background | background | 5          |
| ENSG00000106624.10 | 1.362142628 | 5          | background | background | 5          |
| ENSG00000106628.10 | -1.052582032 | background | background | background | 5          |
| ENSG00000106852.15 | 1.664641837 | background | background | background | 5          |
| ENSG00000107736.19 | 3.38488485  | background | background | background | 3          |
| Gene ID          | Log2 Fold Change | Background | Background | Background | Background |
|------------------|-----------------|------------|------------|------------|------------|
| ENSG00000108405.3 | -1.455011973    | background | background | background | 5          |
| ENSG00000108551.4 | 1.147411648     | NA         | background | background | 5          |
| ENSG00000108602.17| 1.730791811     | background | background | background | 5          |
| ENSG00000111335.12| 1.667144813     | background | background | background | 5          |
| ENSG00000111981.4 | -1.688506683    | NA         | background | background | 5          |
| ENSG00000113070.7 | 1.108559452     | background | background | background | 5          |
| ENSG00000114115.9 | 1.255697336     | background | background | background | 5          |
| ENSG00000114796.15| 1.00974084      | background | background | background | 4          |
| ENSG00000114923.16| 1.364174343     | 5          | background | background | 5          |
| ENSG00000116254.17| 2.666361554     | 5          | background | background | 4          |
| ENSG00000116761.11| -1.715488074    | background | background | background | 5          |
| ENSG00000117318.8 | -1.009362931    | background | background | background | 5          |
| ENSG00000117472.9 | 1.809230211     | background | background | background | 5          |
| ENSG00000118298.10| -1.108025794    | 5          | background | background | 5          |
| ENSG00000118971.7 | 1.237697371     | background | background | background | 5          |
| ENSG00000119915.4 | -1.814091694    | background | background | background | 5          |
| ENSG00000120738.7 | 1.200279396     | NA         | background | background | 5          |
| ENSG00000122574.10| 1.998122407     | background | background | background | 5          |
| ENSG00000123892.11| 3.30245728      | background | background | background | 5          |
| ENSG00000124143.10| 1.14389321      | background | background | background | 5          |
| ENSG00000124762.13| 1.40227577      | NA         | background | background | 4          |
| ENSG00000124766.6 | 1.066608519     | NA         | background | background | 4          |
| ENSG00000124882.3 | 1.786957904     | background | background | background | 5          |
| ENSG00000125676.19| -1.148370269    | background | background | background | 5          |
| ENSG00000125910.5 | 3.021131424     | NA         | background | background | 5          |
| ENSG00000126353.3 | 1.504554063     | background | background | background | 4          |
| ENSG00000127824.13| 1.183081647     | background | background | background | 5          |
| ENSG00000128274.15| 1.07881484      | NA         | background | background | 5          |
| ENSG00000128285.4 | 2.311521545     | NA         | background | background | 3          |
| ENSG00000128340.14| 1.602468227     | background | background | background | 5          |
| ENSG00000128567.16| 1.710757784     | 4          | background | background | 4          |
| ENSG00000129214.14| 1.394990358     | background | background | background | 5          |
| ENSG00000129646.14| -0.013041398    | background | background | background | 4          |
| ENSG00000130768.14| -1.002883617    | background | background | background | 5          |
| ENSG00000130856.15| 1.021168948     | background | background | background | 4          |
| ENSG00000131016.16| 1.968045074     | background | background | background | 4          |
| ENSG00000131435.12| 1.398029416     | background | background | background | 5          |
| ENSG00000131746.12| 1.893849411     | background | background | background | 4          |
| ENSG00000132517.14| 1.876766596     | 5          | background | background | 4          |
| ENSG00000133488.14| 1.87389129      | 4          | background | background | 4          |
| Gene ID          | Expression Value | Background 1 | Background 2 | Background 3 | Background 4 |
|------------------|------------------|--------------|--------------|--------------|--------------|
| ENSG00000133687.15 | 1.007786666      | background   | background   | background   | 4            |
| ENSG00000134013.15 | 1.103429783      | background   | background   | background   | 5            |
| ENSG00000134668.12 | 1.660180233      | background   | background   | background   | 5            |
| ENSG00000134762.16 | 2.248147706      | background   | background   | background   | 5            |
| ENSG00000134830.5  | 1.668733528      | NA           | background   | background   | 5            |
| ENSG00000135069.13 | -1.200130408     | background   | background   | background   | 5            |
| ENSG00000135439.11 | 1.973420229      | 3            | background   | background   | 3            |
| ENSG00000135835.11 | 1.137843613      | 5            | background   | background   | 4            |
| ENSG00000135919.12 | 1.18928833       | 5            | background   | background   | 4            |
| ENSG00000136010.13 | -1.566146916     | 5            | background   | background   | 5            |
| ENSG00000136425.12 | -1.03309272      | background   | background   | background   | 5            |
| ENSG00000136628.17 | -1.119855363     | background   | background   | background   | 5            |
| ENSG00000136859.9  | 1.432032349      | background   | background   | background   | 5            |
| ENSG00000137819.13 | 1.33840761       | background   | background   | background   | 4            |
| ENSG00000138166.5  | 1.21866474       | background   | background   | background   | 5            |
| ENSG00000138685.13 | 3.07205174       | background   | background   | background   | 5            |
| ENSG00000139112.10 | 1.30071339       | background   | background   | background   | 5            |
| ENSG00000139269.2  | -1.77210586      | NA           | background   | background   | 5            |
| ENSG00000139618.14 | -1.272375261     | background   | background   | background   | 5            |
| ENSG00000140044.12 | -1.34656878      | background   | background   | background   | 4            |
| ENSG00000140297.12 | 1.33758729       | background   | background   | background   | 5            |
| ENSG00000140403.12 | 1.349997887      | background   | background   | background   | 4            |
| ENSG00000140682.18 | 1.08460341       | background   | background   | background   | 4            |
| ENSG00000141934.9  | 2.981713758      | background   | background   | background   | 5            |
| ENSG00000142871.16 | 1.705795852      | background   | background   | background   | 4            |
| ENSG00000143217.8  | 1.05949263       | background   | background   | background   | 5            |
| ENSG00000143369.14 | 1.088199293      | background   | background   | background   | 5            |
| ENSG00000143632.14 | 2.093327431      | background   | background   | background   | 5            |
| ENSG00000143786.7  | 1.21710242       | background   | background   | background   | 4            |
| ENSG00000144354.13 | -1.095353483     | background   | background   | background   | 4            |
| ENSG00000144596.12 | 3.572236063      | background   | background   | background   | 5            |
| ENSG00000145040.3  | 1.048374638      | NA           | background   | background   | 5            |
| ENSG00000146674.14 | 2.121372165      | background   | background   | background   | 5            |
| ENSG00000147262.3  | 1.217340706      | NA           | NA           | background   | 5            |
| ENSG00000147883.10 | 2.264256381      | NA           | background   | background   | 5            |
| ENSG00000148400.9  | 1.10966994       | background   | background   | background   | 5            |
| ENSG00000148677.6  | 1.136670283      | NA           | background   | background   | 5            |
| ENSG00000148798.10 | 1.394233659      | background   | background   | background   | 5            |
| ENSG00000149418.10 | 2.125155337      | 4            | background   | background   | 4            |
| ENSG00000149527.17 | 1.565001436      | background   | background   | background   | 4            |
| ENSG00000149564.11 | 1.059607779      | background   | background   | background   | 5            |
| Gene ID                  | Value          | Background |   |   |   |
|-------------------------|----------------|------------|---|---|---|
| ENSG00000149591.16      | 1.70747915     | background |   |   |   |
| ENSG00000151012.13      | -1.813180022   | background |   |   |   |
| ENSG00000152137.6       | 1.612856861    | background |   |   |   |
| ENSG00000152315.4       | 2.199787226    | NA         |   |   |   |
| ENSG00000152503.9       | 1.090626666    | background |   |   |   |
| ENSG00000153029.14      | 1.348294196    | NA         |   |   |   |
| ENSG00000154059.9       | 1.022407263    | background |   |   |   |
| ENSG00000155428.12      | 1.038775909    | NA         |   |   |   |
| ENSG00000155755.18      | -1.076820837   | background |   |   |   |
| ENSG00000155980.11      | 1.385042297    | background |   |   |   |
| ENSG00000156127.6       | 2.183606254    | NA         |   |   |   |
| ENSG00000156535.13      | 1.336875648    | background |   |   |   |
| ENSG00000156966.6       | 1.032390995    | NA         |   |   |   |
| ENSG00000158445.9       | 2.157737813    | NA         |   |   |   |
| ENSG00000158865.12      | 1.760125771    | background |   |   |   |
| ENSG00000158887.15      | 1.015497537    | background |   |   |   |
| ENSG00000159147.17      | -1.47295502    | S          | background |   |   |
| ENSG00000159167.11      | 3.223178994    | background |   |   |   |
| ENSG00000160183.13      | -1.12742059    | background |   |   |   |
| ENSG00000161267.11      | 1.12695137     | background |   |   |   |
| ENSG00000161544.9       | 2.022532316    | background |   |   |   |
| ENSG00000161638.10      | 1.027839558    | S          | background |   |   |
| ENSG00000161647.18      | 1.427962408    | background |   |   |   |
| ENSG00000162194.12      | 1.170439042    | S          | background |   |   |
| ENSG00000162645.12      | 1.13296249     | S          | background |   |   |
| ENSG00000162733.16      | 1.547598364    | S          | background |   |   |
| ENSG00000162909.17      | 1.319587675    | background |   |   |   |
| ENSG00000162975.4       | 3.46956197     | NA         | background |   |   |
| ENSG00000163083.5       | 1.011898271    | NA         | background |   |   |
| ENSG00000163121.9       | 1.787043751    | NA         | background |   |   |
| ENSG00000163739.4       | 7.382376875    | background |   |   |   |
| ENSG00000163885.11      | 1.516212064    | background |   |   |   |
| ENSG00000163914.4       | 1.555461639    | background |   |   |   |
| ENSG00000163993.6       | -1.332930323   | NA         | background |   |   |
| ENSG00000164023.14      | 1.106721887    | background |   |   |   |
| ENSG00000164199.16      | 1.053988969    | S          | background |   |   |
| ENSG00000164251.4       | 1.169158688    | NA         | background |   |   |
| ENSG00000164484.11      | -1.01410717    | background |   |   |   |
| ENSG00000164938.13      | 1.056804325    | S          | background |   |   |
| ENSG00000165046.12      | 1.616821111    | background |   |   |   |
| ENSG00000165188.13      | 1.212223189    | NA         | background |   |   |
| 136 | ENSG00000165269.12 | 1.223787198 | 5 | background | background | 5 |
| 136 | ENSG00000165272.14 | 2.461955572 | background | background | background | 5 |
| 136 | ENSG00000165646.11 | 2.268294301 | background | background | 5 | 5 |
| 136 | ENSG00000165757.8 | 1.988257083 | 5 | background | background | 4 |
| 136 | ENSG00000165895.17 | 1.70207997 | background | background | background | 3 |
| 136 | ENSG00000166025.17 | 2.03220817 | background | background | background | 5 |
| 136 | ENSG00000166145.14 | 2.14454409 | background | background | 4 | 4 |
| 136 | ENSG00000166592.11 | 2.435699885 | background | background | background | 5 |
| 136 | ENSG00000166866.12 | 1.100484092 | background | background | background | 5 |
| 136 | ENSG00000167103.11 | -1.742296141 | 5 | background | background | 5 |
| 136 | ENSG00000167191.11 | 1.317298068 | 5 | background | background | 4 |
| 136 | ENSG00000167555.13 | 1.088321216 | 5 | background | background | 5 |
| 136 | ENSG00000167601.11 | 1.14602381 | background | background | 5 | 4 |
| 136 | ENSG00000167690.16 | 1.022805213 | background | background | background | 5 |
| 136 | ENSG00000167767.13 | 2.115680259 | background | background | background | 5 |
| 136 | ENSG00000167780.11 | -1.13494241 | 5 | background | background | 5 |
| 136 | ENSG00000167995.15 | 1.522131505 | background | background | background | 4 |
| 136 | ENSG00000168135.4 | 2.908158412 | NA | background | background | 5 |
| 136 | ENSG00000168350.7 | 1.079527962 | background | background | background | 5 |
| 136 | ENSG00000168461.12 | 1.114190337 | background | background | background | 4 |
| 136 | ENSG00000168490.13 | 1.240473963 | background | background | background | 5 |
| 136 | ENSG00000169213.6 | 1.33799857 | background | background | 5 | 5 |
| 136 | ENSG00000169403.11 | 1.407796984 | NA | background | background | 5 |
| 136 | ENSG00000169429.10 | 2.450974778 | background | background | background | 5 |
| 136 | ENSG00000169604.19 | -1.062631666 | background | background | 4 | 3 |
| 136 | ENSG00000171219.8 | 1.341218898 | 5 | NA | background | 4 |
| 136 | ENSG00000171345.13 | 1.087374631 | NA | background | background | 5 |
| 136 | ENSG00000171345.13 | 1.087374631 | background | background | background | 5 |
| 136 | ENSG00000171346.15 | 3.455905481 | background | background | background | 4 |
| 136 | ENSG00000171631.14 | 1.04312438 | background | background | background | 5 |
| 136 | ENSG00000171877.20 | 1.228376218 | background | background | background | 4 |
| 136 | ENSG00000172021.11 | -1.878378861 | background | background | background | 4 |
| 136 | ENSG00000172379.20 | 3.046075705 | background | background | 4 | 4 |
| 136 | ENSG00000172426.15 | 1.466665372 | 5 | background | background | 5 |
| 136 | ENSG00000172803.17 | 1.244794233 | background | background | background | 5 |
| 136 | ENSG00000173267.13 | 2.727190425 | background | background | background | 5 |
| 136 | ENSG00000173546.7 | 1.468864783 | background | background | background | 4 |
| 136 | ENSG00000173559.12 | 1.341189941 | background | background | background | 5 |
| 136 | ENSG00000173714.7 | 3.465099735 | NA | background | background | background |
| Ensembl Gene ID                  | Log2 Fold Change | p-Value  | Adjusted p-Value | p-Value (multtest) | Adjusted p-Value (multtest) |
|---------------------------------|-----------------|----------|------------------|-------------------|-----------------------------|
| ENSG00000173918.14              | 1.159788962     | background| background        | background         | 5                           |
| ENSG00000174939.10              | -1.074946844    | NA       | background        | background         | 5                           |
| ENSG00000175505.10              | 1.136155461     | background| background        | background         | 5                           |
| ENSG00000175538.10              | 1.206458466     | background| background        | background         | 5                           |
| ENSG00000177374.12              | 1.76382768      | NA       | background        | background         | 5                           |
| ENSG00000178934.4               | 1.69772191      | background| background        | background         | 5                           |
| ENSG00000179023.8               | 1.319116806     | NA       | NA               | background         | 5                           |
| ENSG00000179292.4               | 1.045332487     | NA       | background        | background         | 5                           |
| ENSG00000179388.8               | 1.695855012     | NA       | background        | background         | 5                           |
| ENSG00000179913.10              | 1.234757463     | background| background        | background         | 5                           |
| ENSG00000180479.13              | 1.293982961     | background| background        | background         | 5                           |
| ENSG00000180525.11              | 1.276470634     | background| background        | background         | 5                           |
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| ENSG00000183072.9               | 1.69772191      | NA       | background        | background         | 5                           |
| ENSG00000183508.4               | 1.76416081      | NA       | background        | background         | 5                           |
| ENSG00000184574.9               | 1.336958161     | NA       | background        | background         | 5                           |
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| ENSG00000185055.10              | 1.42957544      | background| background        | background         | 5                           |
| ENSG00000185467.7               | 1.227348843     | background| background        | background         | 5                           |
| ENSG00000185761.10              | 1.418543825     | background| background        | background         | 5                           |
| ENSG00000186451.1               | 1.605803214     | NA       | background        | background         | 5                           |
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| ENSG00000196081.9               | -1.137053414    | background| background        | background         | 5                           |
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| Ensembl Transcript ID | Log Fold Change | State | Status | Alternative State |
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| ENSG00000198075.9    | 1.419029677     | background | background | background     |
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| ENSG00000212901.3    | 1.921767372     | NA    | background | background     |
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| ENSG00000221836.3    | 2.264881147     | 5     | background | background     |
| ENSG00000221963.5    | -1.205074904    | background | background | background     |
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| ENSG00000248235.6    | 2.068206333     | background | background | background     |
| ENSG00000248746.5    | 1.670619447     | background | background | background     |
| ENSG00000249905.8    | 1.123358106     | 5     | NA     | 4              |
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| ENSG00000266714.7    | 1.233545299     | 5     | NA     | NA             |
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| ENSG00000284713.1    | 1.11377004      | NA    | background | background     |
| ENSG00000082175.14   | 1.711270319     | background | background | background     |
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| ENSG00000120645.11 | -1.843280488 | background | background | background | background | 5 |
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| ENSG00000140044.12 | -1.244270631 | background | background | background | 4          |
| ENSG00000145217.13 | -2.828481402 | background | background | background | 5          |
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| ENSG00000184985.16 | -2.132644926 | background | background | background | 4 | background |
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| ENSG00000198835.3 | 1.668048987 | NA | background | background | background | background |
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| ENSG00000232859.9 | -1.222981119 | NA | background | background | 5 | background |
| ENSG00000248592.7 | -1.140837145 | background | background | background | 5 | background |
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| Chromosome Position | Gene ID | Expression Value | Gene ID | Expression Value | Gene ID | Expression Value | Gene ID | Expression Value |
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| 176                 | ENSG00000175414.6 | 4.03730712 | background | background | background | background | background | 4 |
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| ENSG000000132749.10 | 2.992385463 | background | background | 4 |
| ENSG000000134871.17 | -2.26961932 | background | background | 4 |
| ENSG000000138641.15 | -1.09403908 | background | background | 4 |
| ENSG000000142173.14 | -1.883433225 | background | background | 5 |
| Gene ID       | Score     | Gene ID       | Score     | Gene ID       | Score     |
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| ENSG00000143847.15 | -1.154235851 | ENSG00000144130.11 | -2.289879541 | ENSG00000144730.17 | 2.506343175 |
| ENSG00000149571.11 | -3.723072526 | ENSG00000160868.14 | 4.1415494  | ENSG00000161638.10 | -1.709393248 |
| ENSG00000162944.10 | 2.618338709 | ENSG00000163359.15 | -2.284066107 | ENSG00000163885.11 | -1.695900395 |
| ENSG00000166923.10 | -3.962327508 | ENSG00000168542.14 | -3.828420089 | ENSG00000168874.12 | 2.58802521 |
| ENSG00000174130.12 | 1.018517948 | ENSG00000178852.15 | 1.410055362 | ENSG00000182685.7  | -7.280298422 |
| ENSG00000186340.14 | -1.578780399 | ENSG00000186340.14 | -1.578780399 | ENSG00000187098.14 | 2.335724533 |
| ENSG00000187110.7   | 1.33834872 | ENSG000001896616.13 | 2.58832574 | ENSG00000196782.12 | 2.454970444 |
| ENSG00000196826.7    | -7.280298422 | ENSG00000205277.9 | 6.360745687 | ENSG00000214967.5 | -2.289285598 |
| ENSG00000225828.1  | -1.221597513 | ENSG00000248167.7 | 3.208235029 | ENSG00000250264.1 | 2.339653881 |
| ENSG00000251569.1 | 2.72169769 | ENSG00000265590.9 | -2.9336988 | ENSG0000030469.1 | 2.662845157 |
| ENSG000003096.14     | -1.761335079 | ENSG0000031337.8 | 2.027275203 | ENSG000003989.17 | -1.30179747 |
| ENSG000004139.13    | 1.435978449 | ENSG000005206.16 | 2.01037192 | ENSG000005238.19 | 1.380427422 |
| ENSG000005379.15    | 4.135796804 | ENSG000005884.17 | 2.277610214 | ENSG000006598.15 | 2.339653881 |
| Gene ID     | Value     | Description | Description | Description |
|------------|-----------|-------------|-------------|-------------|
| ENSG00000006062.14 | 1.259570624 | background | background | background | 5 |
| ENSG00000006060.8 | 5.905312308 | background | background | background | background |
| ENSG00000007255.10 | -1.317375135 | background | background | background | background |
| ENSG00000008056.13 | 4.997533497 | background | background | background | background |
| ENSG00000008256.15 | 1.207119867 | background | background | background | 5 |
| ENSG00000008735.13 | 1.419916281 | background | background | background | background |
| ENSG00000009950.15 | 1.252707873 | background | background | background | background |
| ENSG00000010404.17 | 1.252707873 | background | background | background | background |
| ENSG00000011052.21 | -1.241661472 | background | background | background | background |
| ENSG00000011426.10 | -1.196601002 | background | background | background | 4 |
| ENSG00000011590.13 | 3.253545358 | background | background | background | 5 |

**Note:** The table contains gene IDs, values, and descriptions, with some values and descriptions marked as background.
| Gene ID | ENSG00000053747.15 | 1.32856043 | background | background | background | 4 |
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| Gene ID | ENSG00000055118.14 | 2.284089323 | background | background | background | 5 |
| Gene ID | ENSG00000056998.19 | -1.069204915 | background | background | background | 4 |
| Gene ID | ENSG00000057953.13 | -2.033842487 | background | background | background | 5 |
| Gene ID | ENSG00000059728.10 | 1.041611631 | background | background | background | 5 |
| Gene ID | ENSG00000059804.15 | -1.0052318 | background | background | background | 5 |
| Gene ID | ENSG00000060762.18 | -1.016207614 | background | background | background | 5 |
| Gene ID | ENSG00000060982.14 | -1.186276462 | background | background | background | 5 |
| Gene ID | ENSG00000061566.9 | -1.019735205 | background | background | background | 5 |
| Gene ID | ENSG00000064195.7 | 2.514848414 | background | background | background | 5 |
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| Gene ID | ENSG00000064886.13 | 1.747035817 | background | background | background | 5 |
| Gene ID | ENSG00000065357.19 | 1.231016321 | background | background | background | 5 |
| Gene ID | ENSG00000065361.14 | -1.057351285 | background | background | background | 5 |
| Gene ID | ENSG00000065618.18 | 5.175374543 | background | NA | background | 5 |
| Gene ID | ENSG00000065911.11 | -1.896779396 | background | background | background | 5 |
| Gene ID | ENSG00000066056.13 | 2.983377738 | background | background | background | 5 |
| Gene ID | ENSG00000066468.22 | -1.927325278 | background | background | NA | 5 |
| Gene ID | ENSG00000066813.14 | -1.519712032 | background | background | background | 4 |
| Gene ID | ENSG00000067066.16 | 1.024249127 | background | background | background | 5 |
| Gene ID | ENSG00000067798.14 | 2.332117865 | background | background | background | 4 |
| Gene ID | ENSG00000068489.12 | -1.107644552 | background | background | background | 5 |
| Gene ID | ENSG00000069712.12 | 1.433013772 | background | NA | NA | 5 |
| Gene ID | ENSG00000069812.11 | 2.411527654 | background | background | background | 5 |
| Gene ID | ENSG00000070669.16 | -2.631907276 | background | background | background | 5 |
| Gene ID | ENSG00000070731.10 | 3.597142457 | background | background | background | 5 |
| Gene ID | ENSG00000070756.15 | -1.010948659 | background | background | background | 5 |
| Gene ID | ENSG00000070882.12 | 1.061817685 | background | background | background | 5 |
| Gene ID | ENSG00000071794.15 | -1.021073307 | background | background | background | 5 |
| Gene ID | ENSG00000072571.19 | 5.11627654 | background | background | background | 5 |
| Gene ID | ENSG00000073111.13 | -1.002348736 | background | background | background | 5 |
| Gene ID | ENSG00000074590.13 | 1.039324847 | background | background | background | 5 |
| Gene ID | ENSG00000075391.16 | 1.287067574 | background | background | background | 5 |
| Gene ID | ENSG00000076003.4 | -1.239026022 | background | background | background | 5 |
| Gene ID | ENSG00000076067.12 | 1.417408457 | background | background | background | 5 |
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| Gene ID | ENSG00000077152.9 | -1.027014436 | background | background | background | 5 |
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| Gene ID | ENSG00000077585.13 | 1.467021657 | background | background | background | 5 |
| Gene ID          | Value       | Background 1 | Background 2 | Background 3 | Background 4 |
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| ENSG00000078018.19 | 2.92812174  | background   | background   | background   | 4            |
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| ENSG00000078487.17 | 1.106999827 | background   | background   | background   | 4            |
| ENSG00000078898.6  | -1.410695707 | background   | background   | background   | 5            |
| ENSG00000079263.18 | 2.63389106  | background   | background   | background   | 4            |
| ENSG00000079393.20 | 1.92154851  | background   | background   | background   | 5            |
| ENSG00000079616.12 | -1.01842987 | background   | background   | background   | 5            |
| ENSG00000080493.15 | 2.109203917 | background   | background   | background   | 4            |
| ENSG00000080986.12 | -1.260761215 | background   | background   | background   | 5            |
| ENSG00000081051.7  | -1.875131534 | background   | background   | background   | 5            |
| ENSG00000081181.7  | 1.321156544 | background   | background   | background   | 5            |
| ENSG00000083844.10 | 1.008350065 | background   | background   | background   | 5            |
| ENSG00000083857.13 | 1.136925787 | background   | background   | background   | 5            |
| ENSG00000084110.10 | -2.307584844 | background   | background   | background   | 5            |
| ENSG00000084731.14 | 1.079069031 | background   | background   | background   | 4            |
| ENSG00000085117.11 | 3.08394218  | background   | background   | background   | 5            |
| ENSG00000085276.17 | 4.040771564 | background   | background   | background   | 4            |
| ENSG00000085831.15 | 1.492452171 | background   | background   | background   | 5            |
| ENSG00000087074.7  | 1.21023208  | NA           | background   | background   | background   |
| ENSG00000087085.13 | 2.02740587  | background   | background   | background   | 5            |
| ENSG00000087116.14 | 1.699605103 | background   | background   | background   | 4            |
| ENSG00000087266.15 | -1.285583649 | background   | background   | background   | 5            |
| ENSG00000088387.18 | 1.302457313 | background   | background   | background   | 5            |
| ENSG00000088926.13 | -1.498846178 | background   | background   | background   | 5            |
| ENSG00000089091.16 | 1.108640528 | background   | background   | background   | 5            |
| ENSG00000089327.14 | 2.695182488 | NA           | background   | background   | 5            |
| ENSG00000089685.14 | -1.115408576 | background   | background   | background   | background   |
| ENSG00000089723.9  | 1.800905791 | background   | background   | background   | background   |
| ENSG00000091409.14 | 1.021174464 | background   | background   | background   | 5            |
| ENSG00000091513.14 | -1.230130231 | background   | background   | background   | 5            |
| ENSG00000091583.10 | -1.005863262 | background   | background   | background   | 5            |
| ENSG00000092036.18 | -1.114958782 | background   | background   | background   | background   |
| ENSG00000092621.12 | -2.408892183 | background   | background   | background   | 4            |
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| ENSG00000099365.10 | 1.99601237  | background   | background   | background   | 5            |
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| Gene ID       | Value      | Background | Background | Background | Background |
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| ENSG00000099998.17 | 1.108857953 | background | background | background | background |
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| ENSG000000100036.12 | 2.953173695 | NA         | background | background | background |
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| ENSG000000100079.6 | -1.409074547 | background | background | background | background |
| ENSG000000100128.11 | 2.089968775 | background | background | background | background |
| ENSG000000100290.2 | 1.776536288 | background | background | background | background |
| ENSG000000100373.9 | 1.199274564 | background | background | background | background |
| ENSG000000100557.9 | 1.722148512 | background | background | background | background |
| ENSG000000100628.11 | 1.603587413 | background | background | background | background |
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| ENSG000000100749.7 | -1.12688622 | background | background | background | background |
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| ENSG000000101000.5 | 1.784742427 | NA         | background | background | background |
| ENSG000000101098.12 | 2.787496891 | background | background | background | background |
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| ENSG000000101384.11 | 1.411247201 | background | background | background | background |
| ENSG000000101928.12 | 1.021359859 | background | background | background | background |
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| ENSG000000102055.6 | 5.338453586 | NA         | background | background | background |
| ENSG000000102144.13 | -1.018000238 | background | background | background | background |
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| ENSG000000102359.6 | 1.454117459 | background | background | background | background |
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| ENSG00000116717.11 | 1.241168554 | background | background | background | background |
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| ENSG00000117226.11 | 1.392607775 | background | background | background | 5          |
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| ENSG00000119681.11 | 1.158069963 | background | background | background | 4          |
| ENSG00000119703.13 | 1.147756308 | background | background | background | 5          |
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| ENSG00000119714.10 | 2.061595356 | NA         | background | background | background |
| ENSG00000119913.4  | -1.188709757 | background | NA         | background | 5          |
| ENSG00000119927.13 | -1.45778055 | background | background | background | 4          |
| ENSG00000119938.8  | -1.562958747 | NA         | background | background | background |
| ENSG00000119943.12 | 2.30676282  | background | background | background | 5          |
| ENSG00000119965.12 | 1.040531301 | background | background | background | 5          |
| ENSG00000120158.11 | 1.077902811 | background | background | background | 5          |
| ENSG00000120278.15 | 3.079951071 | background | background | background | 5          |
| ENSG00000120318.15 | 2.251730898 | background | background | background | 4          |
| ENSG00000120437.8  | -1.205145221 | background | background | background | 5          |
| ENSG00000120471.15 | 4.705826263 | background | background | background | 5          |
| ENSG00000120694.19 | 1.072385096 | background | background | background | background |
| ENSG00000120738.7  | 1.295687597 | NA         | background | background | background |
| ENSG00000120833.13 | 1.847009932 | background | background | background | background |
| ENSG00000120875.8  | 2.37532609  | background | background | background | background |
| ENSG00000121281.12 | 3.310728316 | background | background | background | 5          |
| ENSG00000121966.6  | 1.943013254 | NA         | background | background | background |
| ENSG00000122121.10 | -1.184626156 | background | background | background | background |
| ENSG00000122133.16 | 1.433784794 | background | background | background | background |
| Gene       | Log2FoldChange | p-value | Adjusted p-value | Background | Status |
|------------|----------------|---------|------------------|------------|--------|
| ENSG00000128285.4 | 3.267866992   | NA      | background       | background |        |
| ENSG00000128340.14 | 1.897962505   | 1.673470002 | 5 | background |        |
| ENSG00000128510.10 | 4.957714066   | 1.42287751  | 5 | background |        |
| ENSG00000128564.6 | 2.847955676   | 1.124488392 | 5 | background |        |
| ENSG00000128567.16 | 1.124488392   | 1.015333479 | 4 | background |        |
| ENSG00000128645.14 | -1.849751702  | 2.013811807 | 5 | background |        |
| ENSG00000128731.15 | 1.11892943    | 1.09800862  | 4 | background |        |
| ENSG00000129116.17 | 1.09800862    | -1.396845085 | 4 | background |        |
| ENSG00000129221.15 | 3.155390926   | 2.09889948  | 5 | background |        |
| ENSG00000129566.12 | 2.09889948    | 1.058189497 | 5 | background |        |
| ENSG00000129667.12 | 1.045912943   | -1.309268376 | 5 | background |        |
| ENSG00000130173.13 | -1.409827766  | -1.488266352 | 5 | background |        |
| ENSG00000130427.2 | -1.488266352  | 1.487439354 | 5 | background |        |
| ENSG00000130513.6 | -1.487439354  | 1.289142464 | 5 | background |        |
| ENSG00000130592.15 | 1.289142464   | 2.847050448 | 5 | background |        |
| ENSG00000130653.15 | -1.32101217   | -1.34504194 | 4 | background |        |
| ENSG00000130707.17 | -1.34504194   | -1.005986614 | 5 | background |        |
| ENSG00000130711.3 | 1.519626357   | 1.037028514 | 5 | background |        |
| ENSG00000130751.9 | 1.037028514   | 2.175637954 | 5 | background |        |
| ENSG00000130812.10 | -1.90973581   | -1.005986614 | 5 | background |        |
| ENSG00000130821.15 | -1.005986614  | -1.247543828 | 5 | background |        |
| ENSG00000130988.12 | -1.247543828  | -1.03849946 | 5 | background |        |
| ENSG00000131016.16 | 1.100635991   | 1.142898975 | 5 | background |        |
| ENSG00000131089.15 | 1.2078701     | -1.005986614 | 4 | background |        |
| ENSG00000131153.8 | -1.005986614  | 1.670169981 | 5 | background |        |
| ENSG00000131435.12 | 1.670169981   | 2.072303249 | 4 | background |        |
| ENSG00000131459.12 | 2.072303249   | 2.018947155 | 5 | background |        |
| ENSG00000131746.12 | 1.805622265   | -1.258163593 | 4 | background |        |
| ENSG00000131747.14 | -1.258163593  | 1.12488392  | 5 | background |        |
| 191 | ENSG00000131781.12 | -1.61044676 | background | background | background | 4 |
| 191 | ENSG00000132003.9 | 1.068467015 | background | background | background | 5 |
| 191 | ENSG00000132357.13 | 1.454023533 | background | background | background | 4 |
| 191 | ENSG00000132437.17 | -1.651648487 | background | background | background | 5 |
| 191 | ENSG00000132514.13 | 2.918424279 | background | background | background | 4 |
| 191 | ENSG00000132535.18 | 1.485538328 | background | background | background | 4 |
| 191 | ENSG00000132718.8 | 2.14457681 | background | background | background | 4 |
| 191 | ENSG00000132744.7 | -1.439065999 | background | background | background | 5 |
| 191 | ENSG00000132837.14 | -1.140324052 | background | background | background | 5 |
| 191 | ENSG00000132846.5 | -1.248149013 | background | background | background | 5 |
| 191 | ENSG00000133138.19 | -1.05596066 | background | background | background | 5 |
| 191 | ENSG00000133454.15 | 2.93665847 | background | background | background | 5 |
| 191 | ENSG00000133739.15 | -2.01088502 | background | background | background | 5 |
| 191 | ENSG00000133800.8 | 2.936008107 | background | background | background | 5 |
| 191 | ENSG00000133805.15 | 1.406774275 | background | background | background | 5 |
| 191 | ENSG00000133808.4 | 3.715190832 | background | background | background | 5 |
| 191 | ENSG00000133816.13 | 1.140773077 | background | background | background | 5 |
| 191 | ENSG00000133835.14 | -1.004001047 | background | background | background | 5 |
| 191 | ENSG00000133985.2 | 2.749850617 | background | background | background | 5 |
| 191 | ENSG00000134222.16 | -1.043005918 | background | background | background | 5 |
| 191 | ENSG00000134333.13 | -1.057921941 | background | background | background | 5 |
| 191 | ENSG00000134363.11 | 1.142769652 | background | background | background | 5 |
| 191 | ENSG00000134369.15 | 2.86926773 | background | background | background | 5 |
| 191 | ENSG00000134531.9 | 2.833945415 | background | background | background | 5 |
| 191 | ENSG00000134668.12 | 4.244901513 | background | background | background | 5 |
| 191 | ENSG00000134684.10 | -1.087655879 | background | background | background | 5 |
| 191 | ENSG00000134762.16 | 1.510748696 | background | background | background | 5 |
| 191 | ENSG00000134780.9 | 1.151952888 | background | background | background | 5 |
| 191 | ENSG00000134824.13 | -1.380058682 | background | background | background | 5 |
| 191 | ENSG00000134954.14 | 2.941518329 | background | background | background | 5 |
| 191 | ENSG00000135069.13 | -1.467724897 | background | background | background | 5 |
| 191 | ENSG00000135074.15 | 1.70476547 | background | background | background | 5 |
| 191 | ENSG00000135116.9 | 4.597900919 | background | background | background | 5 |
| 191 | ENSG00000135127.11 | 1.143532153 | background | background | background | 5 |
| 191 | ENSG00000135362.13 | 4.959982084 | background | background | background | 5 |
| 191 | ENSG00000135374.9 | 1.73579734 | background | background | background | 5 |
| 191 | ENSG00000135437.9 | 1.325700594 | background | background | background | 5 |
| 191 | ENSG00000135549.10 | 1.257086528 | background | background | background | 5 |
| 191 | ENSG00000135678.11 | 2.440394919 | background | background | background | 5 |
| Gene Symbol | Chromosome Position | Log2 Fold Change | p-value | Sample Type | Signal Type |
|-------------|---------------------|-----------------|---------|-------------|-------------|
| ENSG00000135679.22 | 191 | 1.077415813 | background | background | background | background |
| ENSG00000135917.13 | 191 | -1.145996677 | background | background | background | 5 |
| ENSG00000135919.12 | 191 | 1.97166372 | background | background | background | 5 |
| ENSG00000136010.13 | 191 | -2.601753598 | background | background | background | 4 |
| ENSG00000136059.14 | 191 | -1.012620805 | background | background | background | background |
| ENSG00000136286.14 | 191 | -2.104448899 | background | background | background | background |
| ENSG00000136383.6 | 191 | 3.320295668 | background | background | background | 4 |
| ENSG00000136492.8 | 191 | -1.13327731 | background | background | background | 4 |
| ENSG00000136826.14 | 191 | 1.595682637 | background | background | background | 5 |
| ENSG00000136828.18 | 191 | -1.202718245 | background | background | background | 5 |
| ENSG00000136842.13 | 191 | 1.609368418 | background | background | background | 5 |
| ENSG00000136859.9 | 191 | 1.250754402 | background | background | background | background |
| ENSG00000136868.10 | 191 | -1.14317731 | background | background | background | 5 |
| ENSG00000136869.13 | 191 | 3.096417476 | background | background | background | 4 |
| ENSG00000136872.17 | 191 | 1.856758972 | background | background | background | background |
| ENSG00000136881.11 | 191 | 1.092085263 | background | background | background | 4 |
| ENSG00000136960.12 | 191 | -1.020118555 | background | background | background | 5 |
| ENSG00000137204.14 | 191 | -1.485862103 | background | background | background | background |
| ENSG00000137225.12 | 191 | 3.217837427 | background | background | background | background |
| ENSG00000137310.11 | 191 | -1.094468966 | background | background | background | background |
| ENSG00000137331.11 | 191 | 1.249112874 | NA | background | background | background |
| ENSG00000137460.8 | 191 | 2.500876611 | background | background | background | 5 |
| ENSG00000137752.23 | 191 | -1.227449399 | background | background | background | background |
| ENSG00000137802.13 | 191 | 1.543135286 | background | background | background | 4 |
| ENSG00000137804.12 | 191 | -1.123836231 | background | background | background | 5 |
| ENSG00000137819.13 | 191 | 1.861431622 | background | background | background | 5 |
| ENSG00000137936.16 | 191 | 1.014210267 | background | background | background | 4 |
| ENSG00000137955.15 | 191 | -1.062632421 | background | background | background | background |
| ENSG00000137960.5 | 191 | -2.145728374 | background | background | background | 5 |
| ENSG00000138030.12 | 191 | -1.016604489 | background | background | background | background |
| ENSG00000138100.13 | 191 | 3.562607864 | background | background | background | background |
| ENSG00000138119.16 | 191 | 2.115240716 | background | NA | background | 5 |
| ENSG00000138160.5 | 191 | -1.136214709 | background | background | background | 4 |
| ENSG00000138166.5 | 191 | 2.580386721 | background | background | background | 5 |
| ENSG00000138336.8 | 191 | -1.194781076 | background | background | background | 4 |
| ENSG00000138413.13 | 191 | -1.181793172 | background | background | background | 5 |
| ENSG00000138587.5 | 191 | -1.21300283 | background | background | background | 5 |
| ENSG00000138640.14 | 191 | -1.09020198 | background | background | background | 4 |
| ENSG00000138678.10 | 191 | 1.720894321 | background | background | background | 4 |
| ENSG00000138772.12 | 191 | 1.164347244 | background | background | background | 4 |
| ENSG00000138778.11 | 191 | -1.07490283 | background | background | background | 5 |
| Accession     | Value         | Background | Background | Background | Count |
|--------------|---------------|------------|------------|------------|-------|
| ENSG00000138823.13 | -1.080770635 | background | background | background | 5     |
| ENSG000000139044.10 | -1.050367027 | background | background | background | 4     |
| ENSG000000139112.10 | 1.009373471  | background | background | background |       |
| ENSG000000139219.17 | -1.056152667 | background | background | background |       |
| ENSG000000139269.2  | -2.891623042  | NA         | background | background |       |
| ENSG000000139278.9  | 2.091413752   | background | background | background | 5     |
| ENSG000000139344.7  | -1.148309971  | background | background | background |       |
| ENSG000000139428.11 | -1.33790154  | background | background | background |       |
| ENSG000000139540.11 | -1.159405249  | background | background | background |       |
| ENSG000000140044.12 | -2.072442599  | background | background | background |       |
| ENSG000000140297.12 | 1.076137205   | background | background | background | 4     |
| ENSG000000140379.7  | 2.250760053   | NA         | background | background |       |
| ENSG000000140465.13 | 1.088421497   | 4          | background | background | 4     |
| ENSG000000140525.17 | -1.245530354  | background | background | background | 5     |
| ENSG000000140534.13 | -1.145521571  | background | background | background | 4     |
| ENSG000000140682.18 | 1.636469116   | background | background | background |       |
| ENSG000000140961.12 | 1.09362676   | background | background | background |       |
| ENSG000000141401.11 | -1.038521069  | background | background | background | 5     |
| ENSG000000141485.16 | -1.192660492  | background | background | background | 4     |
| ENSG000000141497.13 | 1.149181554   | background | background | background |       |
| ENSG000000141682.11 | 1.525778225   | NA         | background | background |       |
| ENSG000000141753.6  | 1.356332261   | background | background | background | 5     |
| ENSG000000141959.16 | -1.387196033  | background | background | background |       |
| ENSG000000142227.10 | 1.925862674   | background | background | background | 5     |
| ENSG000000142449.12 | -2.509737202  | background | background | background | 5     |
| ENSG000000142549.9  | -1.040638371  | background | NA         | background | 5     |
| ENSG000000142669.14 | 1.169266199   | NA         | background | background |       |
| ENSG000000142677.3  | -1.064924801  | background | background | background |       |
| ENSG000000142871.16 | 1.267943108   | background | background | background |       |
| ENSG000000143028.8  | 1.703290848   | background | background | background | 5     |
| ENSG000000143036.16 | -1.264865117  | 5          | background | background | 4     |
| ENSG000000143067.4  | 1.049537623   | background | background | background |       |
| ENSG000000143127.12 | 1.317463966   | background | background | background | 4     |
| ENSG000000143217.8  | 1.979029898   | background | background | background | 5     |
| ENSG000000143278.3  | -2.012211765  | background | background | background |       |
| ENSG000000143363.15 | -1.166582307  | background | background | background | 5     |
| ENSG000000143369.14 | 1.703343958   | background | background | background |       |
| ENSG000000143476.17 | -1.12742051   | background | background | background | 5     |
| ENSG000000143502.14 | 5.244222955   | background | background | background | 4     |
| ENSG000000143507.17 | 1.25720403   | background | background | background | 5     |
| ENSG000000143627.17 | -1.03565097   | background | background | background |       |
| Gene Accession | Description | Value          | Feature | Feature | Feature |
|---------------|-------------|----------------|---------|---------|---------|
| ENSG00000143632.14 | 191 | 1.478812536 | background | background | background |
| ENSG00000143786.7 | 1.945868167 | background | background | background | 5 |
| ENSG00000143816.7 | 2.715787579 | background | background | background | background |
| ENSG00000143847.15 | -2.20523595 | background | background | background | 5 |
| ENSG00000143867.6 | 1.520942767 | background | background | background | background |
| ENSG00000144285.18 | -2.565776082 | background | background | S | background |
| ENSG00000144354.13 | -1.208174439 | background | background | background | 5 |
| ENSG00000144426.18 | 1.037144708 | background | background | background | 5 |
| ENSG00000144730.17 | 3.673226029 | background | background | background | 5 |
| ENSG00000144834.13 | 3.054454454 | background | background | background | 5 |
| ENSG00000145040.3 | -1.117678752 | background | background | background | background |
| ENSG00000145192.12 | -1.12120419 | background | background | background | 5 |
| ENSG00000145384.3 | -2.10748061 | background | background | background | background |
| ENSG00000145386.9 | -1.135198195 | background | background | background | 5 |
| ENSG00000145391.13 | 1.245948607 | background | background | background | 5 |
| ENSG00000145431.10 | 1.25604195 | background | background | background | 5 |
| ENSG00000145476.15 | -1.116615797 | background | background | background | background |
| ENSG00000145555.14 | -1.670465181 | background | background | background | 4 |
| ENSG00000145604.15 | -1.189462601 | background | background | background | 5 |
| ENSG00000145632.14 | 1.185167804 | background | background | background | background |
| ENSG00000146112.11 | 1.440863016 | background | background | background | background |
| ENSG00000146242.8 | 1.376073076 | background | background | S | 5 |
| ENSG00000146383.7 | 5.876382577 | NA | NA | background | 5 |
| ENSG00000146386.7 | 1.12120419 | background | background | background | 5 |
| ENSG00000146592.16 | 1.34156883 | background | background | background | 3 |
| ENSG00000146700.8 | -1.252529479 | background | background | background | background |
| ENSG00000146733.13 | -1.12555276 | background | background | background | 5 |
| ENSG00000146904.8 | -1.117394403 | background | background | background | 5 |
| ENSG00000147168.12 | 2.55804987 | background | background | background | 5 |
| ENSG00000147174.11 | 2.541682533 | background | background | background | background |
| ENSG00000147364.16 | -1.016848509 | background | background | background | 4 |
| ENSG00000147400.8 | -1.002279568 | NA | background | background | background |
| ENSG00000147509.13 | 1.576982604 | background | background | background | 5 |
| ENSG00000147676.13 | -1.740025279 | background | background | background | 5 |
| ENSG00000147852.15 | -2.099791726 | background | background | background | 5 |
| ENSG00000147883.10 | 2.435221591 | NA | background | background | 5 |
| ENSG00000147889.17 | 1.89255803 | background | background | background | 5 |
| ENSG00000148400.9 | 1.634701938 | background | background | background | 5 |
| ENSG00000148483.8 | 2.33613214 | background | background | background | 5 |
| ENSG00000148672.8 | -1.126345181 | S | background | background | 5 |
| ENSG00000148677.6 | 1.262037562 | NA | background | background | background |
| ENST | Value       | Background | Background | Background | Background | Background |
|------|-------------|------------|------------|------------|------------|------------|
| 191  | 3.042908113 | NA         | background | background | background | 4          |
| 191  | -1.073011928| background | background | background | background | 5          |
| 191  | 2.774152159 | background | background | background | background | 5          |
| 191  | 1.079600949 | background | background | background | background | 5          |
| 191  | 1.18462885  | background | background | background | background | 5          |
| 191  | 1.386817239 | background | background | background | background | 4          |
| 191  | 1.00869661  | NA         | background | background | background | 4          |
| 191  | -1.280577612| background | background | background | background | 5          |
| 191  | 2.415499326 | background | background | background | background | 5          |
| 191  | 2.762031118 | background | background | background | background | 5          |
| 191  | -3.609847554| background | background | background | background | 4          |
| 191  | 1.258280102 | background | background | background | background | 5          |
| 191  | 3.324056252 | background | background | background | background | 5          |
| 191  | -1.038942897| background | background | background | background | 5          |
| 191  | 3.324510909 | background | background | background | background | 5          |
| 191  | 1.675731081 | background | background | background | background | 4          |
| 191  | 1.217315418 | 5          | background | background | background | 4          |
| 191  | 1.334625004 | background | background | background | background | 5          |
| 191  | 1.568869471 | background | background | background | background | 5          |
| 191  | 4.45236455 | background | background | background | background | 4          |
| 191  | 2.943283491 | background | background | background | background | 5          |
| 191  | -1.306531106| NA         | background | background | background | 5          |
| 191  | -1.084829161| background | background | background | background | 5          |
| 191  | 5.068735278 | background | background | background | background | 5          |
| 191  | -1.117347808| background | background | background | background | 5          |
| 191  | 3.853377015 | background | background | background | background | 5          |
| 191  | 1.761072066 | background | background | background | background | 5          |
| 191  | 1.213383445 | background | background | background | background | 5          |
| 191  | 1.379275532 | background | NA         | background | background | 4          |
| 191  | -1.063862722| background | background | background | background | 4          |
| 191  | 1.046173289 | background | background | background | background | 5          |
| 191  | 1.360264498 | background | background | background | background | 5          |
| 191  | -1.050829491| background | background | background | background | 4          |
| #  | ENSG00000154620.5 | 1.877090695 | NA | background | background | background |
|----|------------------|-------------|----|------------|------------|------------|
| #  | ENSG00000155099.7 | 1.096575866 | background | background | background | 5          |
| #  | ENSG00000155792.9 | -1.632857223 | background | background | background | 5          |
| #  | ENSG00000156127.6 | 2.638976067 | NA | background | background | 5          |
| #  | ENSG00000156222.11 | -1.365088623 | background | background | background | 4          |
| #  | ENSG00000156232.7 | 1.483401925 | background | background | background | 4          |
| #  | ENSG00000156265.15 | 6.825492501 | background | background | background | 4          |
| #  | ENSG00000156453.13 | 2.137380412 | background | background | background | 5          |
| #  | ENSG00000156535.13 | 1.210531992 | background | background | background | 5          |
| #  | ENSG0000015656222.11 | -4.49984828 | background | background | background | 5          |
| #  | ENSG00000156666.6 | 2.852003179 | NA | background | background | background |
| #  | ENSG00000156968.8 | -1.818432919 | background | background | background | 5          |
| #  | ENSG00000156970.12 | -1.28809615 | background | background | background | 4          |
| #  | ENSG00000157087.17 | -1.801169782 | background | background | background | 4          |
| #  | ENSG00000157131.10 | -1.900376874 | background | background | background | 5          |
| #  | ENSG00000157168.18 | 2.91036047 | background | background | background | 4          |
| #  | ENSG00000157227.12 | 1.317814903 | background | background | background | background |
| #  | ENSG00000157456.7 | -1.001051988 | NA | background | background | background |
| #  | ENSG00000157734.13 | -1.081580675 | background | background | background | 5          |
| #  | ENSG00000158023.9 | 1.156019392 | background | background | background | 5          |
| #  | ENSG00000158246.7 | 1.96779833 | NA | background | background | background |
| #  | ENSG00000158296.13 | -1.47091582 | background | background | background | 5          |
| #  | ENSG00000158321.15 | 3.072402122 | background | background | background | 4          |
| #  | ENSG00000158373.8 | 1.208896601 | NA | background | background | background |
| #  | ENSG00000158402.18 | -1.441537445 | background | background | background | 4          |
| #  | ENSG00000158406.4 | 1.252821322 | NA | background | background | 5          |
| #  | ENSG00000158747.13 | 1.375342363 | background | background | background | background |
| #  | ENSG00000158825.5 | 1.574369026 | background | background | background | 5          |
| #  | ENSG00000158859.9 | 1.758829058 | background | background | background | 5          |
| #  | ENSG00000159224.4 | 1.517705612 | background | background | background | 5          |
| #  | ENSG00000159261.10 | -1.937322442 | NA | background | background | 5          |
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| #  | ENSG00000159915.12 | 1.256166818 | background | background | background | 5          |
| #  | ENSG00000160182.2 | 1.597389649 | NA | background | background | background |
| #  | ENSG00000160183.13 | -1.20813474 | background | background | background | 5          |
| #  | ENSG00000160200.17 | -1.547395862 | background | background | background | background |
| #  | ENSG00000160233.7 | -1.124913892 | NA | background | background | background |
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| #  | ENSG00000160298.17 | -1.31212603 | background | background | background | background |
| #  | ENSG00000160360.12 | 1.649265261 | background | background | background | background |
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| ENSG00000162645.12 | 1.087754615 | background | background | 5 | 5 |
| ENSG00000162650.16 | 1.161885706 | background | background | 5 | 5 |
| ENSG00000162825.12 | 1.404889363 | background | NA | 5 |
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| ENSG00000162909.17 | 1.515830318 | background | background | 5 | 5 |
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| ENSG00000163297.16 | 1.354408624 | background | background | 5 | 5 |
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| ENSG00000163694.14 | 1.720152523 | background | background | 5 | 5 |
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| Gene       | Value       | Type     | Type | Type | Type |
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| ENSG00000163818.16 | -1.114876962 | background | background | background | 5 |
| ENSG00000163827.12 | -1.344921721 | background | background | background | 5 |
| ENSG00000164007.10 | -1.068700913 | background | background | background | 5 |
| ENSG00000164023.14 | 1.103291115 | background | background | background | 4 |
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| ENSG0000016406.10 | -1.115673708 | background | background | background | 5 |
| ENSG00000164406.7 | -1.659554031 | background | background | background | 5 |
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| ENSG00000164459.14 | 1.196359144 | background | background | background | 4 |
| ENSG00000164474.15 | 1.953721071 | background | background | background | 4 |
| ENSG00000164492.17 | -6.514654557 | background | background | background | 5 |
| ENSG00000164742.14 | -1.345900058 | background | background | background | 5 |
| ENSG00000164849.9 | -1.552823989 | NA       | background | background | background |
| ENSG00000164867.10 | 1.084254098 | background | background | background | 5 |
| ENSG00000164938.13 | 1.09755504 | background | background | background | 5 |
| ENSG00000164949.7 | 2.282496732 | background | background | background | background |
| ENSG00000164951.15 | 1.253639822 | NA       | background | background | background |
| ENSG00000165046.12 | 2.087911886 | background | background | background | 5 |
| ENSG00000165175.15 | -1.057667844 | NA       | background | background | background |
| ENSG00000165269.12 | 1.871147867 | background | background | background | 5 |
| ENSG00000165272.14 | 2.848903254 | background | background | background | 5 |
| ENSG00000165449.11 | 4.438772596 | background | background | background | 5 |
| ENSG00000165471.6 | -1.408244372 | NA       | background | background | background |
| ENSG00000165475.13 | -1.016365942 | background | background | background | 4 |
| ENSG00000165516.10 | -1.050370848 | background | background | background | 4 |
| ENSG00000165548.10 | -3.286167448 | background | background | background | 5 |
| ENSG00000165730.14 | -1.156969712 | background | background | background | 4 |
| ENSG00000165757.8 | 2.108020178 | background | background | background | 5 |
| ENSG00000165866.4 | 1.037707066 | NA       | background | background | 5 |
| ENSG00000165895.17 | 1.29004691 | background | background | background | 4 |
| ENSG00000165953.9 | -1.720778782 | background | background | background | 5 |
| ENSG00000165995.18 | 2.017435784 | background | background | background | 4 |
| ENSG00000166123.13 | -1.124169386 | background | background | background | 4 |
| ENSG00000166126.10 | -1.009827133 | background | background | background | 4 |
| ENSG00000166145.14 | 1.163311592 | background | background | background | background |
| ENSG00000166147.13 | 1.124049451 | background | background | background | 4 |
| ENSG00000166159.10 | 3.049071372 | background | background | background | 5 |
| ENSG00000166165.12 | -1.045861591 | background | background | background | 5 |
| ENSG00000166173.10 | 1.633313342 | background | background | background | 5 |
| Gene            | Value1       | Value2       | Value3       | Value4       | Value5       |
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| ENSG00000166401.14 | 1.074214182  | background   | background   | background   | 5            |
| ENSG00000166451.13 | -1.097342184 | background   | background   | background   | 5            |
| ENSG00000166546.13 | 2.355000774  | background   | background   | background   | 5            |
| ENSG00000166592.11 | 3.029896469  | background   | background   | background   | 5            |
| ENSG000001666831.8 | 1.263686375  | background   | background   | background   | 5            |
| ENSG000001666923.10 | -2.16011308  | NA           | background   | background   | 5            |
| ENSG000001666963.12 | 2.118412196  | background   | background   | background   | 5            |
| ENSG000001666984.11 | -2.240563825 | background   | background   | background   | 5            |
| ENSG000001667054.13 | 1.867247558  | background   | background   | background   | 5            |
| ENSG000001667244.18 | -1.060247759 | background   | background   | background   | 5            |
| ENSG000001667286.9 | 1.328653184  | background   | background   | background   | 5            |
| ENSG000001667394.12 | 1.004374323  | NA           | background   | background   | 5            |
| ENSG000001667513.8 | -1.251964504 | background   | background   | background   | 5            |
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| ENSG000001667601.11 | 1.469979215  | background   | background   | background   | 5            |
| ENSG000001667618.9 | 2.779348697  | NA           | background   | background   | 5            |
| ENSG000001667703.14 | 1.153503391  | background   | background   | background   | 5            |
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| ENSG000001667889.12 | 1.996568269  | background   | background   | background   | 5            |
| ENSG000001667895.14 | 1.32185839   | background   | background   | background   | 5            |
| ENSG000001667900.11 | -1.152407677 | background   | background   | background   | 5            |
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| ENSG00000168032.8 | 4.807826221  | background   | background   | background   | 5            |
| ENSG00000168071.21 | 1.170961678  | background   | background   | background   | 5            |
| ENSG00000168078.9 | -1.012370669 | background   | background   | background   | 5            |
| ENSG00000168209.4 | -2.383057372 | background   | background   | background   | 5            |
| ENSG00000168237.17 | -1.140877486 | background   | background   | background   | 5            |
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| Genomic Location | Value | P-value | Significance | Background |
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| ENSG00000168490.13 | 2.062493194 | | | background |
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| ENSG00000168621.14 | 2.543603024 | | | background |
| ENSG00000168672.13 | -1.694875603 | | | background |
| ENSG00000168765.16 | -1.291426815 | | | background |
| ENSG00000168785.17 | 1.830208751 | | | background |
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| ENSG00000169174.10 | -1.688041773 | | | background |
| ENSG00000169213.6 | 1.841466743 | | | background |
| ENSG00000169247.11 | 2.64781644 | | | background |
| ENSG00000169258.6 | 1.029381129 | | | background |
| ENSG00000169429.10 | 2.927392188 | | | background |
| ENSG00000169442.8 | 2.679489465 | | | background |
| ENSG00000169507.9 | -1.478713538 | | | background |
| ENSG00000169550.12 | -1.260065894 | | | background |
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| ENSG00000169826.7 | 1.655894183 | | | background |
| ENSG00000169856.8 | -1.504618038 | | | background |
| ENSG00000169896.16 | 4.151508986 | | | background |
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| ENSG00000170049.9 | -2.258992568 | | | background |
| ENSG00000170312.15 | -1.010625099 | | | background |
| ENSG00000170324.20 | 1.619405029 | | | background |
| ENSG00000170396.7 | 3.945774992 | | | background |
| ENSG00000170482.16 | -1.81161378 | | | background |
| ENSG00000170498.8 | 2.526420268 | | | background |
| ENSG00000170500.12 | 2.760504071 | | | background |
| ENSG00000170537.12 | 2.025814738 | | | background |
| ENSG00000170545.16 | 1.189472908 | | | background |
| ENSG00000170909.13 | 1.932703083 | | | background |
| ENSG00000170915.8 | -1.207914077 | | | background |
| ENSG00000170921.15 | 1.93212676 | | | background |
| ENSG00000171031.10 | -1.272169221 | | | background |
| ENSG00000171121.8 | 1.948751506 | | | background |
| ENSG00000171227.6 | -1.291426815 | | | background |
| ENSG00000171310.10 | 4.331600535 | | | background |
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| ID          | Gene ID     | Identifier | Value   | Background | Annotation | Score |
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| ENSG00000171345.13 | 2.263668453 | background | background | background |                          |       |
| ENSG00000171346.15 | 3.538417902 | background | background | background |                          |       |
| ENSG00000171444.17 | 2.217285084 | background | NA       | background |                          |       |
| ENSG00000171557.16 | -1.191437066 | background | background | background |                          |       |
| ENSG00000171560.14 | -1.178943357 | background | background | background |                          |       |
| ENSG00000171564.11 | -1.058015937 | background | background | background |                          |       |
| ENSG00000171621.13 | 1.34879567  | NA         | background | background |                          |       |
| ENSG00000171680.21 | 1.037986998 | background | background | background |                          |       |
| ENSG00000171798.17 | -3.399400603 | background | background | background |                          |       |
| ENSG00000171848.14 | -1.313702704 | background | background | background |                          |       |
| ENSG00000171873.7 | 1.773592387  | NA         | background | background |                          |       |
| ENSG00000171877.20 | 1.214088965  | background | background | background |                          |       |
| ENSG00000171992.12 | 2.433211641  | background | background | background |                          |       |
| ENSG00000172014.12 | 1.472491361  | background | background | background |                          |       |
| ENSG00000172053.17 | -1.025716659 | background | background | background |                          |       |
| ENSG00000172058.15 | 1.984545652  | background | background | background |                          |       |
| ENSG00000172346.14 | 2.585269542  | background | background | background |                          |       |
| ENSG00000172379.20 | 1.226690026  | background | background | background |                          |       |
| ENSG00000172482.4 | -1.29514807  | background | background | background |                          |       |
| ENSG00000172602.9 | 1.280630224  | background | background | background |                          |       |
| ENSG00000172738.11 | 1.410545935  | background | background | background |                          |       |
| ENSG00000172748.13 | 1.075554216  | background | background | background |                          |       |
| ENSG00000172766.18 | 1.209704275  | background | background | background |                          |       |
| ENSG00000172927.3 | 3.377215544  | background | background | background |                          |       |
| ENSG00000172955.17 | -1.458306117 | background | background | background |                          |       |
| ENSG00000173064.12 | 1.119294121  | background | background | background |                          |       |
| ENSG00000173110.7 | 3.101085727  | NA         | background | background |                          |       |
| ENSG00000173210.19 | 1.061283192  | background | background | background |                          |       |
| ENSG00000173212.4 | 1.513002111  | background | background | background |                          |       |
| ENSG00000173262.11 | -1.298581433 | background | background | background |                          |       |
| ENSG00000173267.13 | 1.792700431  | background | background | background |                          |       |
| ENSG00000173559.12 | 1.048495761  | background | background | background |                          |       |
| ENSG00000173597.8 | 1.113452496  | background | background | background |                          |       |
| ENSG00000173621.8 | 1.224932523  | NA         | background | background |                          |       |
| ENSG00000173702.7 | 2.136684112  | background | background | background |                          |       |
| ENSG00000173898.11 | 1.833155985  | background | background | background |                          |       |
| ENSG00000173930.8 | -1.659713712 | background | background | background |                          |       |
| ENSG00000174371.16 | -1.090132212 | background | background | background |                          |       |
| ENSG00000174469.19 | -1.30095377  | background | background | background |                          |       |
| ENSG00000174502.18 | 2.139488246  | background | background | background |                          |       |
| ID          | Value         | Background | NA | Value         | Background |
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| ENSG00000174669.11 | -1.392074272  | background |    | background    | background |
| ENSG00000174718.11 | 1.359777062   | background |    | background    | background |
| ENSG00000175294.5  | 3.753698233   | background |    | background    | background |
| ENSG00000175329.12 | 1.417082323   | background |    | background    | background |
| ENSG00000175449.13 | -1.990063306  | background |    | background    | background |
| ENSG00000175505.10 | 2.52196422    | background |    | background    | background |
| ENSG00000175538.10 | 1.664280192   | background |    | background    | background |
| ENSG00000175592.8  | 1.274626016   | NA         |    | background    | background |
| ENSG00000175793.11 | 1.344380509   | background |    | background    | background |
| ENSG00000175920.16 | 3.316606153   | background |    | background    | background |
| ENSG00000176014.12 | 1.442210178   | background |    | background    | background |
| ENSG00000176024.17 | 1.045932239   | background |    | background    | background |
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| ENSG00000176176.8  | -1.015341498  | background |    | background    | background |
| ENSG00000176495.3  | 1.700873312   | NA         |    | background    | background |
| ENSG00000176533.12 | -1.033215737  | background |    | background    | background |
| ENSG00000176845.12 | 2.060381304   | background |    | background    | background |
| ENSG00000177076.5  | 1.382887676   | background |    | background    | background |
| ENSG00000177181.14 | -1.028266696  | NA         |    | background    | background |
| ENSG00000177374.12 | 2.676275841   | NA         |    | background    | background |
| ENSG00000177602.5  | -1.120769316  | NA         |    | background    | background |
| ENSG00000177606.6  | 1.247385763   | NA         |    | background    | background |
| ENSG00000177706.8  | -1.035002627  | background |    | background    | background |
| ENSG00000177943.13 | -1.426571045  | background |    | background    | background |
| ENSG00000178075.19 | 2.198730231   | background |    | background    | background |
| ENSG00000178150.9  | 2.09099158    | background |    | background    | background |
| ENSG00000178201.4  | 1.397281694   | NA         |    | background    | background |
| ENSG00000178573.6  | 1.462552757   | NA         |    | background    | background |
| ENSG00000178690.2  | 2.383307953   | NA         |    | background    | background |
| ENSG00000178821.12 | -1.028004209  | background |    | background    | background |
| ENSG00000178934.4  | 1.182603462   | background |    | background    | background |
| ENSG00000178999.12 | -1.054172972  | background |    | background    | background |
| ENSG00000179148.9  | 2.836781219   | background |    | background    | background |
| ENSG00000179168.14 | 3.991147251   | background |    | background    | background |
| ENSG00000179222.17 | -1.214819203  | background |    | background    | background |
| ENSG00000179388.8  | 1.347196116   | NA         |    | background    | background |
| ENSG00000179630.10 | 1.0320008     | background |    | background    | background |
| ENSG00000179871.5  | 2.702043474   | NA         |    | background    | background |
| ENSG00000179913.10 | 1.300435314   | background |    | background    | background |
| ENSG00000180155.19 | 1.52814174    | background |    | background    | background |
| ENSG00000180532.10 | 1.781032073   | background |    | background    | background |
| Gene ID          | Value     | Type   | Status          | Background | Repeat Count |
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| ENSG00000180806.4 | 1.777309826 | NA     | background      | background | 5            |
| ENSG00000180834.7 | 1.465286707 | background | background      | background | 5            |
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| ENSG00000180953.11 | 1.57564594  | background | background      | background | 5            |
| ENSG00000181634.7 | 2.041583131 | background | background      | background | 5            |
| ENSG00000181649.5 | 1.787108653 | NA     | background      | background | 5            |
| ENSG00000182118.7 | 1.409088611 | NA     | background      | background | 5            |
| ENSG00000182199.10 | -1.665499023 | background | background      | background | 5            |
| ENSG00000182324.6 | 1.51080402  | background | background      | background | 5            |
| ENSG00000182492.15 | 1.365581293 | background | background      | background | 5            |
| ENSG00000182580.2 | 2.779419884 | background | background      | background | 5            |
| ENSG00000182866.16 | 1.929549741 | background | background      | background | 5            |
| ENSG00000183010.16 | -1.094353707 | background | background      | background | 5            |
| ENSG00000183018.8 | 1.864085112 | background | background      | background | 5            |
| ENSG00000183185.9 | -1.18139577 | background | background      | background | 5            |
| ENSG00000183206.17 | 1.921156378 | background | NA             | NA         | 5            |
| ENSG00000183484.11 | 4.338324783 | NA     | background      | background | 5            |
| ENSG00000183496.5 | 1.014782678 | NA     | background      | background | 5            |
| ENSG00000183778.17 | 4.940126243 | background | background      | background | 5            |
| ENSG00000183779.6 | 1.131096414 | NA     | background      | background | 5            |
| ENSG00000183840.6 | 2.532370029 | NA     | background      | background | 4            |
| ENSG00000183844.16 | -1.134377514 | background | background      | background | 5            |
| ENSG00000183856.10 | -1.249408542 | background | background      | background | 5            |
| ENSG00000183876.8 | 1.023339303 | NA     | background      | background | 5            |
| ENSG00000184060.10 | 1.338739884 | background | background      | background | 5            |
| ENSG00000184117.11 | -1.10735449 | background | background      | background | 5            |
| ENSG00000184260.5 | -1.527267307 | NA     | NA             | NA         | background   |
| ENSG00000184304.14 | 1.154605735 | background | background      | background | 3            |
| ENSG00000184371.13 | 1.028068899 | background | background      | background | 5            |
| ENSG00000184489.11 | -1.167717185 | background | background      | background | 5            |
| ENSG00000184492.6 | 2.17206215  | NA     | background      | background | 5            |
| ENSG00000184574.9 | 2.120269329 | NA     | background      | background | 5            |
| ENSG00000184575.11 | -1.155835359 | background | background      | background | 5            |
| ENSG00000184584.12 | 1.068301435 | background | background      | background | 5            |
| ENSG00000184678.10 | 1.877171447 | NA     | background      | background | 5            |
| Gene ID  | Value     | Annotation 1 | Annotation 2 | Annotation 3 | Annotation 4 |
|---------|-----------|--------------|--------------|--------------|--------------|
| ENSG00000184786.5 | 1.278985794 | NA           | background   | background   | 5            |
| ENSG00000184916.8 | 3.584442549 | background   | background   | background   |              |
| ENSG00000184922.13 | 3.073681702 | background   | background   | background   |              |
| ENSG00000184925.11 | -1.29566375 | NA           | NA           | background   |              |
| ENSG00000184986.10 | -1.250318452 | background   | background   | background   |              |
| ENSG00000185000.11 | -1.101287976 | background   | background   | background   |              |
| ENSG00000185130.5 | 1.533126792 | NA           | background   | background   |              |
| ENSG00000185215.8 | 1.582838123 | background   | background   | background   |              |
| ENSG00000185271.7 | 2.066150429 | background   | NA           | NA           |              |
| ENSG00000185291.11 | 2.722293948 | background   | background   | background   | 4            |
| ENSG00000185332.6 | 2.247879905 | background   | background   | background   |              |
| ENSG00000185386.14 | 2.3463315   | background   | background   | background   |              |
| ENSG00000185432.11 | -1.027117252 | background   | background   | background   |              |
| ENSG00000185565.11 | 3.057727822 | background   | background   | background   | 4            |
| ENSG0000018567.6  | 2.474933316 | background   | background   | background   |              |
| ENSG00000185761.10 | 1.379809569 | background   | background   | background   | 5            |
| ENSG00000185813.10 | -1.027963249 | background   | background   | background   |              |
| ENSG00000185838.13 | 1.114274335 | background   | background   | background   |              |
| ENSG00000185869.14 | 1.428761469 | background   | background   | background   |              |
| ENSG00000185950.8  | 2.333136909 | NA           | background   | background   |              |
| ENSG00000185955.4  | 4.605925765 | NA           | background   | background   |              |
| ENSG00000185989.10 | 5.954975839 | background   | background   | background   | 3            |
| ENSG00000186204.14 | -1.158829064 | background   | background   | background   | 5            |
| ENSG00000186517.13 | 1.913677916 | background   | background   | background   |              |
| ENSG00000186567.12 | 1.026986095 | background   | background   | background   |              |
| ENSG00000186642.15 | 2.027108783 | background   | background   | background   | 5            |
| ENSG00000186868.15 | -1.215128986 | background   | background   | background   | 5            |
| ENSG00000186910.3  | -1.450327713 | background   | background   | background   | 5            |
| ENSG00000186918.13 | -1.346662607 | background   | background   | background   |              |
| ENSG00000187017.15 | -1.048850935 | background   | background   | background   |              |
| ENSG00000187180.3  | 4.924020765 | NA           | background   | background   |              |
| ENSG00000187244.10 | -1.015112947 | background   | background   | background   |              |
| ENSG00000187391.19 | 2.279010473 | background   | background   | background   | 3            |
| ENSG00000187583.10 | 1.363319117 | background   | background   | background   |              |
| ENSG00000187642.9  | 1.204708247 | NA           | background   | background   |              |
| ENSG00000187792.4  | -1.089191099 | background   | background   | background   |              |
| ENSG00000187796.14 | -1.028486369 | background   | background   | background   |              |
| ENSG00000187800.13 | 2.02739168   | background   | background   | background   | 5            |
| ENSG00000187801.14 | -1.002557655 | background   | background   | background   |              |
| ENSG00000187808.4  | -1.34726196  | NA           | background   | background   |              |
| Chromosome | Gene ID       | Score         | Background 1 | Background 2 | Background 3 | Background 4 |
|------------|--------------|---------------|--------------|--------------|--------------|--------------|
| 191        | ENSG00000187837.3 | 1.339255886   | NA           | NA           | NA           | background   |
| 191        | ENSG00000188015.9  | 2.963226687   | background   | background   | background   | background   |
| 191        | ENSG00000188042.7  | 2.410039568   | NA           | background   | background   | background   |
| 191        | ENSG00000188064.9  | 2.050042952   | background   | background   | background   | background   |
| 191        | ENSG00000188112.8  | 1.064339541   | background   | NA           | background   | 5            |
| 191        | ENSG00000188257.10 | 1.21160851    | background   | background   | background   | background   |
| 191        | ENSG00000188266.13 | -1.056029092  | background   | background   | background   | NA           | 5            |
| 191        | ENSG00000188338.14 | -1.793813855  | background   | background   | background   | background   |
| 191        | ENSG00000188549.12 | 1.686240172   | background   | background   | background   | background   |
| 191        | ENSG00000188582.8   | -1.013028906  | NA           | background   | background   | background   |
| 191        | ENSG00000188629.11  | 2.654582392   | background   | background   | background   | 5            |
| 191        | ENSG00000188641.12  | -1.068837679  | background   | background   | background   | 4            |
| 191        | ENSG00000188766.12  | 3.564566551   | background   | background   | background   | background   |
| 191        | ENSG00000189057.10  | -1.012598498  | background   | background   | background   | background   |
| 191        | ENSG00000189120.4   | 3.777074007   | NA           | background   | 5            | 5            |
| 191        | ENSG00000189143.9   | 1.147127804   | NA           | background   | 5            | 5            |
| 191        | ENSG00000189410.11  | 1.993799363   | background   | background   | background   | 5            |
| 191        | ENSG00000196110.7   | 1.397848313   | background   | NA           | background   | 5            |
| 191        | ENSG00000196154.11  | 1.587480587   | background   | background   | background   | background   |
| 191        | ENSG00000196155.12  | 1.186491732   | background   | 5            | 5            | 5            |
| 191        | ENSG00000196159.11  | -2.53469293   | background   | background   | 4            | 5            |
| 191        | ENSG00000196177.12  | -1.017088351  | background   | background   | 5            | 5            |
| 191        | ENSG00000196188.10  | 2.785393214   | background   | background   | background   | background   |
| 191        | ENSG00000196268.11  | 1.486805892   | background   | background   | background   | 5            |
| 191        | ENSG00000196305.17  | -1.178988453  | background   | background   | 5            | 5            |
| 191        | ENSG00000196338.12  | 2.481936943   | background   | background   | 5            | 5            |
| 191        | ENSG00000196352.14  | 1.120698248   | background   | background   | 5            | 5            |
| 191        | ENSG00000196358.10  | 4.275454219   | background   | background   | 5            | 5            |
| 191        | ENSG00000196517.11  | -2.022351936  | background   | background   | 5            | 5            |
| 191        | ENSG00000196557.12  | 2.732484417   | background   | background   | background   | background   |
| 191        | ENSG00000196611.4   | 4.180004598   | background   | background   | background   | background   |
| 191        | ENSG00000196660.10  | -2.568000656  | NA           | background   | background   | 4            |
| 191        | ENSG00000196754.10  | 3.799550426   | background   | background   | background   | 5            |
| 191        | ENSG00000196826.7   | -7.562379416  | background   | background   | background   | 5            |
| 191        | ENSG00000196878.14  | 5.472195857   | background   | background   | background   | 5            |
| 191        | ENSG00000196935.8   | 1.313334059   | background   | background   | 5            | 4            |
| 191        | ENSG00000197019.4   | 1.60138342    | NA           | background   | background   | background   |
| 191        | ENSG00000197050.10  | 1.013243181   | background   | background   | background   | 4            |
| 191        | ENSG00000197140.14  | 1.336077527   | background   | background   | background   | 3            |
| 191        | ENSG00000197208.5   | 1.576154477   | background   | background   | background   | 5            |
| 191        | ENSG00000197253.13  | 4.964085838   | background   | background   | background   | background   |
| Gene ID       | Value   | Name  | Description | Count |
|--------------|---------|-------|-------------|-------|
| ENSG00000197261.11 | 3.189480189 | NA | background | background |
| ENSG00000197321.14 | 1.458972059 | background | background | background | 4 |
| ENSG00000197496.5 | -1.074436834 | background | background | background | 5 | 5 |
| ENSG00000197535.14 | 1.71660948 | background | background | background | 5 |
| ENSG00000197603.13 | 1.28675095 | background | background | background | 5 |
| ENSG00000197608.11 | 1.02593843 | background | background | background | background |
| ENSG00000197632.8 | 6.097091457 | background | background | background | background |
| ENSG00000197647.11 | 1.182923997 | background | background | background | background |
| ENSG00000197654.12 | -1.118094275 | background | background | background | 5 | 5 |
| ENSG00000197675.11 | 3.849349312 | background | background | background | background |
| ENSG00000197702.12 | 1.250486139 | background | background | background | 5 |
| ENSG00000197753.11 | 1.168116349 | background | background | background | background |
| ENSG00000197797.6 | 5.385558418 | background | background | background | background | 5 |
| ENSG00000198959.11 | 1.197536614 | background | background | background | background |
| ENSG00000203872.6 | -2.710940696 | background | background | background | 5 |
| ENSG00000203896.9 | -1.086336123 | background | background | background | background |
| ENSG00000203985.10 | -1.032782816 | background | background | background | background | 5 |
| ENSG00000204381.11 | 4.202499306 | background | background | background | 5 |
| ENSG00000204389.9 | 1.620707681 | NA | background | background | background |
| ENSG00000204936.10 | 1.07615035 | background | background | background | background |
| ENSG00000204540.10 | 3.275807442 | background | background | background | 4 |
| ENSG00000204740.10 | 1.094618606 | S | background | background | 4 |
| ENSG00000204868.9 | 1.473088529 | background | background | background | 4 |
| ENSG00000204947.8 | 1.581857043 | background | background | background | background |
| ENSG00000205277.9 | 9.348854906 | background | NA | background | 5 |
| ENSG00000205336.11 | 1.021843001 | background | background | background | 5 |
| ENSG00000205403.12 | -1.088096581 | background | background | background | background | 5 |
| ENSG00000205413.7 | 1.458420992 | background | background | background | background |
| ENSG00000205426.10 | 5.989853482 | background | background | background | background |
| ENSG00000205436.7 | -1.290064262 | background | background | background | background |
| Gene ID          | Name             | Value       | Remarks | Remarks | Remarks |
|-----------------|------------------|-------------|---------|---------|---------|
| ENSG00000205464.11 | 1.256982087      | background  | background | background | 5       |
| ENSG00000205544.3 | -1.08838757      | background  | background | background |         |
| ENSG00000205923.3 | -4.58159242      | background  | background | background |         |
| ENSG00000211452.10 | 3.410800842      | background  | background | background | 5       |
| ENSG00000212643.2 | -1.268187247     | background  | background | background |         |
| ENSG00000212901.3 | 2.127127659      | background  | background | background | 5       |
| ENSG00000213185.6 | 1.257278554      | background  | background | background | 4       |
| ENSG00000213213.13 | -1.009536829     | background  | background | background |         |
| ENSG00000213462.4 | 1.028302851      | background  | background | background | 5       |
| ENSG00000213626.11 | 1.983344731      | background  | background | background |         |
| ENSG00000213638.5 | 1.094809456      | background  | background | background |         |
| ENSG00000213760.10 | 1.92890215      | background  | background | background |         |
| ENSG00000213793.5 | 1.11802563       | background  | background | background | 4       |
| ENSG00000213903.8 | 1.587455467      | background  | background | background |         |
| ENSG00000213999.15 | -2.4976477       | background  | background | background |         |
| ENSG00000214140.10 | 1.733414418     | background  | background | background |         |
| ENSG00000214222.8 | 1.036343055      | background  | background | background |         |
| ENSG00000214274.9 | -1.299448508     | background  | background | background | 5       |
| ENSG00000214279.13 | 1.160437524     | background  | background | background | 4       |
| ENSG00000214290.8 | -1.070319507     | background  | background | background |         |
| ENSG00000214575.9 | 1.563193641      | background  | background | background | 5       |
| ENSG00000214655.10 | 1.231254147     | background  | background | background |         |
| ENSG00000214658.8 | -1.427365558     | background  | background | background |         |
| ENSG00000219626.8 | 1.285684652      | background  | NA       | NA       | 5       |
| ENSG00000221963.5 | -1.294123444     | background  | background | background | 5       |
| ENSG00000221995.5 | 1.870831576      | background  | background | background |         |
| ENSG00000223573.6 | 2.70561037       | background  | background | background |         |
| ENSG00000224383.7 | 1.65823589       | background  | background | background |         |
| ENSG00000225190.10 | 1.093078831     | background  | background | background |         |
| ENSG000002228716.6 | -1.195103624    | background  | background | background |         |
| ENSG000002229089.7 | 1.747089772      | background  | background | background | 5       |
| ENSG000002231274.5 | 3.402863615      | background  | NA       | background |         |
| ENSG000002233822.4 | 1.432671288      | NA          | NA       | background | 5       |
| ENSG00000223465.10 | 2.207744141      | background  | background | background |         |
| ENSG000002235169.7 | -1.27295541      | background  | background | background |         |
| ENSG000002240386.3 | 3.919390413      | NA          | NA       | background |         |
| ENSG000002241186.9 | -1.219995857     | background  | background | background |         |
| ENSG000002241399.6 | -1.161345242     | background  | background | background | 5       |
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| ENSG000002243927.5 | 1.623922683      | background  | background | background | 5       |
| ENSG00000243955.5 | -1.766350266 | background | background | background | 5 |
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| ENSG00000244187.7 | -1.093796143 | background | background | background | 5 |
| ENSG00000244486.8 | 1.077580871  | background | background | background | 5 |
| ENSG00000248167.7 | 2.880664016  | background | background | background | 5 |
| ENSG00000249992.1 | 3.006395295  | background | background | background | 5 |
| ENSG00000250264.1 | 1.742947016  | background | background | background | 5 |
| ENSG00000250722.5 | -1.086156354 | background | background | background | 4 |
| ENSG00000250799.9 | -1.376423443 | background | background | background | 5 |
| ENSG00000251503.8 | -1.367686371 | background | background | background | 5 |
| ENSG00000251569.1 | 2.023307968  | background | background | background | 5 |
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| ENSG00000256087.6 | 1.44768959   | background | background | background | 5 |
| ENSG00000259171.1 | -1.118517838 | background | background | background | 5 |
| ENSG00000259316.10| -1.072193112 | background | background | background | 5 |
| ENSG00000259803.6 | -1.394081725 | background | background | background | 5 |
| ENSG00000260230.2 | 2.357782308  | background | background | background | 5 |
| ENSG00000260238.6 | -1.387897443 | background | background | background | 5 |
| ENSG00000261308.2 | 2.006599874  | background | background | background | 5 |
| ENSG00000261701.6 | -1.061534824 | background | background | background | 5 |
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| ENSG00000265590.9 | -2.628949833 | background | background | background | 5 |
| ENSG00000266714.7 | 1.670947474  | background | background | background | 5 |
| ENSG00000266964.5 | -1.400347195 | background | background | background | 5 |
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| ENSG00000271425.7 | 1.304132472  | background | background | background | 5 |
| ENSG00000272031.2 | 2.121519359  | background | background | background | 5 |
| ENSG00000272196.2 | 1.62298685   | background | background | background | 5 |
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| ENSG00000275342.4 | 1.329972357  | background | background | background | 5 |
| ENSG00000275832.4 | 2.833390063  | background | background | background | 5 |
| ENSG00000276043.4 | -1.040413955 | background | background | background | 5 |
| ENSG00000277075.2 | 1.30738044   | background | background | background | 5 |
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| ENSG00000277639.2 | 2.219625625  | background | background | background | 5 |
| ENSG00000277758.4 | -5.403878751 | background | background | background | 5 |
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| ENSG00000281991.1 | -0.777020705 | background | background | background | 5 |
| ENSG00000283154.2 | 3.155240882  | background | background | background | 4 |
| ENSG00000284713.1 | 4.980653876  | background | background | background | 5 |
| ENSG00000002746.14| -4.089788082 | background | background | background | 5 |
| Gene ID | ENSG00000066629.16 | 1.445263316 | background | background | background | 3 |
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| Gene ID | ENSG000000076641.4 | -2.505010766 | 4          | background | background | 4 |
| Gene ID | ENSG000000104814.12 | -1.944564432 | 5          | background | background | 4 |
| Gene ID | ENSG000000106976.20 | -2.051410512 | 5          | background | background | 3 |
| Gene ID | ENSG000000111728.10 | 2.30009251   | 5          | 5          | 4          | 3 |
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| Gene ID | ENSG000000167105.7 | -4.993983865 | background | background | 4          | 3 |
| Gene ID | ENSG000000170921.15 | -2.570487857 | background | background | 5          | 3 |
| Gene ID | ENSG000000173110.7 | 4.025842298  | NA         | background | background | 4 |
| Gene ID | ENSG000000173432.10 | 4.97613357   | 5          | background | background | 5 |
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| Gene ID | ENSG000000174130.12 | -2.321984056 | NA         | background | background | 4 |
| Gene ID | ENSG000000174564.12 | 2.471462437  | 5          | background | background | 4 |
| Gene ID | ENSG000000180481.10 | 4.739816871  | background | background | 4          | 4 |
| Gene ID | ENSG000000186919.12 | -2.260876709 | background | background | 5          | 3 |
| Gene ID | ENSG000000187098.14 | 2.34944848   | 4          | background | background | 3 |
| Gene ID | ENSG000000196159.11 | -1.337399322 | background | background | 4          | 4 |
| Gene ID | ENSG000000196358.10 | 4.965986134  | 5          | 5          | 5          | 3 |
| Gene ID | ENSG000000196391.10 | -1.395076886 | background | background | 5          | 4 |
| Gene ID | ENSG000000196872.11 | -1.937405294 | 5          | background | background | 3 |
| Gene ID | ENSG000000205238.9 | 2.444474738  | 4          | NA         | NA         | 3 |
| Gene ID | ENSG000000231738.10 | 3.654950282  | 5          | background | background | 5 |
| Gene ID | ENSG000000250264.1 | 1.745979211  | 5          | background | NA         | 3 |
| Gene ID | ENSG000000255974.7 | 5.322180285  | 5          | background | background | 4 |
| Gene ID | ENSG000000259371.2 | 4.903150458  | background | NA         | NA         | 4 |
| Gene ID | ENSG000000265590.9 | -3.444048287 | background | NA         | NA         | 4 |
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| Gene ID | ENSG00000066629.16 | 1.658220181  | 4          | background | background | 3 |
| Gene ID | ENSG00000069493.14 | 1.413687088  | background | background | 3          | 3 |
| Gene ID | ENSG00000076641.4 | -2.873613133 | background | background | 4          | 3 |
| Gene ID | ENSG00000088387.18 | 1.350507623  | 4          | background | background | 3 |
| Gene ID | ENSG00000105723.11 | -1.001618795 | 4          | background | background | 4 |
| Gene ID | ENSG00000106483.11 | -1.122065716 | 4          | background | background | 2 |
| Gene ID | ENSG00000106976.20 | -3.001115631 | 4          | background | background | 3 |
| ENSG00000114349.9 | -4.281697041 | 4 | background | background | 4 |
| ENSG00000114841.17 | 1.177392947 | 4 | background | background | 3 |
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| ENSG00000116701.14 | -3.113582571 | background | background | 4 |
| ENSG00000117245.12 | -2.319660458 | background | background | 3 |
| ENSG00000121075.9 | 1.41649839 | background | background | 3 |
| ENSG00000135439.11 | 1.448202111 | background | background | 3 |
| ENSG00000142583.17 | -2.467227236 | background | background | 3 |
| ENSG00000142609.17 | -1.00285574 | background | background | 3 |
| ENSG00000143632.14 | 1.038100755 | background | background | 3 |
| ENSG00000144130.11 | -2.246567005 | background | background | 2 |
| ENSG00000145536.15 | -3.125317549 | background | background | 3 |
| ENSG00000150656.14 | -5.333694572 | background | background | 4 |
| ENSG00000155961.4 | 2.688510983 | NA | background | background | 4 |
| ENSG00000161243.8 | -2.054745154 | background | background | 4 |
| ENSG00000163393.12 | -1.125016354 | background | background | 3 |
| ENSG00000166147.13 | 1.26328737 | background | background | 2 |
| ENSG00000166349.9 | 3.251732136 | NA | background | background | 2 |
| ENSG00000171757.15 | 3.230788096 | background | background | 4 |
| ENSG00000177854.7 | -1.122946202 | NA | background | background | 4 |
| ENSG00000178852.15 | 1.247383261 | background | background | 3 |
| ENSG00000182685.7 | -1.346425709 | background | background | 4 |
| ENSG00000182752.9 | 2.949050897 | 4 | background | background | 3 |
| ENSG00000205277.9 | 6.179840251 | NA | background | background | 4 |
| ENSG00000213999.15 | -1.477648136 | background | background | 4 |
| ENSG00000246922.8 | 1.733640993 | NA | background | background | 3 |
| ENSG00000250264.1 | 2.563150312 | NA | background | background | 4 |
| ENSG00000277399.4 | -3.274788561 | background | background | 3 |
| ENSG00000280433.1 | -5.342137621 | NA | background | background | 4 |
| ENSG00000284461.1 | 1.880259229 | background | background | 4 |
| ENSG00000000460.16 | -1.030725515 | background | background | 4 |
| ENSG00000001460.17 | -1.026626969 | background | background | 5 |
| ENSG00000003987.13 | 1.448408726 | background | background | 4 |
| ENSG00000004139.13 | 2.258462518 | background | background | 5 |
| ENSG00000004799.7 | 4.285816456 | background | background | 5 |
| ENSG00000005469.11 | 1.331017559 | background | background | 5 |
| ENSG00000005844.17 | 1.173397364 | background | background | 5 |
| ENSG00000005981.12 | -1.956605805 | background | background | 5 |
| ENSG00000006016.10 | -1.829380935 | background | background | 5 |
| 194 | ENSG00000006327.13 | -1.35553394 | NA | background | background | 5 |
| 194 | ENSG00000006740.16 | -1.114440196 | background | background | background | 5 |
| 194 | ENSG00000007001.12 | 2.103279413 | background | background | background | 4 |
| 194 | ENSG00000007171.16 | 5.090851989 | 5 | background | background | 5 |
| 194 | ENSG00000007255.10 | -1.087248511 | background | background | background | background |
| 194 | ENSG00000007968.6 | -1.299233659 | 5 | background | background | 5 |
| 194 | ENSG00000010278.12 | 1.829447261 | 5 | background | background | 5 |
| 194 | ENSG00000010361.13 | 2.76598613 | background | background | background | 4 |
| 194 | ENSG00000010379.15 | 2.06680439 | background | background | background | 5 |
| 194 | ENSG00000010810.17 | -1.002150624 | background | background | background | 4 |
| 194 | ENSG00000010361.13 | 2.76598613 | background | background | background | 4 |
| 194 | ENSG00000011422.11 | -1.375323637 | NA | background | background | 5 |
| 194 | ENSG00000011426.10 | -1.169857055 | 5 | background | background | 4 |
| 194 | ENSG00000011478.11 | -1.21809610 | background | background | background | 5 |
| 194 | ENSG00000011590.13 | 4.026867642 | background | background | background | 4 |
| 194 | ENSG00000011638.10 | -1.049381866 | 5 | background | background | 4 |
| 194 | ENSG00000012048.20 | -1.099568752 | background | background | background | 5 |
| 194 | ENSG00000012171.19 | -1.479999902 | background | background | background | 5 |
| 194 | ENSG00000012822.15 | 1.484407171 | background | background | background | 5 |
| 194 | ENSG00000013036.15 | -1.322182976 | 4 | background | background | 4 |
| 194 | ENSG00000013375.15 | 1.039244561 | background | background | background | 5 |
| 194 | ENSG00000013588.7 | -2.131041332 | background | background | background | 5 |
| 194 | ENSG00000013810.18 | -1.31893746 | background | background | background | 5 |
| 194 | ENSG00000014138.8 | -1.30681567 | background | background | background | 4 |
| 194 | ENSG00000019186.9 | -1.570056629 | background | background | background | 5 |
| 194 | ENSG00000020181.17 | -2.39926975 | 5 | background | background | 5 |
| 194 | ENSG00000021461.16 | 2.646609149 | background | NA | NA | 5 |
| 194 | ENSG00000021488.12 | 1.593145612 | background | background | background | 5 |
| 194 | ENSG00000022567.9 | 3.497822501 | background | background | background | 4 |
| 194 | ENSG00000024526.16 | -1.537326151 | background | background | background | 5 |
| 194 | ENSG00000025423.11 | 1.679532593 | background | background | background | 5 |
| 194 | ENSG00000026025.15 | -3.453607981 | background | background | background | background |
| 194 | ENSG00000026297.15 | -1.033217079 | background | background | background | 5 |
| 194 | ENSG00000027869.11 | -2.29340143 | background | background | background | 5 |
| 194 | ENSG00000029534.19 | 3.587351201 | background | background | background | 3 |
| 194 | ENSG00000029993.14 | -1.6464352 | background | background | background | 5 |
| 194 | ENSG00000032444.15 | 1.243796975 | background | background | background | 5 |
| 194 | ENSG00000033867.16 | -1.15603536 | 5 | background | background | 4 |
| 194 | ENSG00000034510.5 | -1.562296407 | background | background | background | 5 |
| 194 | ENSG00000035115.21 | 1.065874111 | background | background | background | 4 |
| 194 | ENSG00000035664.11 | 2.94452849 | background | background | background | 4 |
| 194 | ENSG00000037042.8 | 1.236855772 | background | background | background | background |
| Gene ID               | Symbol | Score   | Significance | Background | 5-Value | 4-Value |
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| ENSG00000037280.15   |        | 2.560692748 | background   | background |         |         |
| ENSG00000038427.15   |        | -1.504267522 | background   | background |         |         |
| ENSG00000038945.14   |        | 5.21642864   | background   | background |         |         |
| ENSG00000040275.16   |        | -1.223281158 | background   | background |         |         |
| ENSG00000047346.12   |        | 1.49669079   | background   | background |         |         |
| ENSG00000047365.11   |        | 1.718459205  | background   | background |         |         |
| ENSG00000048028.11   |        | -1.433467397 | background   | background |         |         |
| ENSG00000048392.11   |        | 1.080932385  | background   | background |         |         |
| ENSG00000049540.16   |        | NA         | background   | background |         |         |
| ENSG00000050344.8    |        | -1.098792207 | background   | background |         |         |
| ENSG00000051341.13   |        | 1.18937812   | background   | background |         |         |
| ENSG00000053372.4    |        | -1.090651106 | background   | background |         |         |
| ENSG00000053918.15   |        | 5.097719246  | background   | background |         |         |
| ENSG00000054179.11   |        | -1.582278509 | background   | background |         |         |
| ENSG00000054219.10   |        | 3.154643097  | background   | background |         |         |
| ENSG00000054277.13   |        | -1.21011556  | background   | background |         |         |
| ENSG00000054598.6    |        | -1.024367494 | background   | background |         |         |
| ENSG00000054654.16   |        | -1.094401635 | background   | background |         |         |
| ENSG00000055957.10   |        | 2.421625767  | background   | background |         |         |
| ENSG00000057019.15   |        | -1.177812781 | background   | background |         |         |
| ENSG00000057468.6    |        | 8.175804851  | background   | background |         |         |
| ENSG00000057657.15   |        | 5.351412117  | background   | background |         |         |
| ENSG00000058091.16   |        | 3.211081089  | background   | background |         |         |
| ENSG00000058335.15   |        | 1.528606971  | background   | background |         |         |
| ENSG00000058866.14   |        | 1.124441862  | background   | background |         |         |
| ENSG00000059728.10   |        | 1.359941933  | background   | background |         |         |
| ENSG00000059804.15   |        | -1.66304787  | background   | background |         |         |
| ENSG00000060566.13   |        | 1.363164212  | background   | background |         |         |
| ENSG00000061273.17   |        | -1.06891671  | background   | NA         |         |         |
| ENSG00000062822.12   |        | -1.078352105 | background   | background |         |         |
| ENSG00000063176.15   |        | 1.239495551  | background   | background |         |         |
| ENSG00000063660.8    |        | -1.813397457 | background   | background |         |         |
| ENSG00000064199.6    |        | -1.291753362 | background   | background |         |         |
| ENSG00000065325.12   |        | 1.989957593  | background   | background |         |         |
| ENSG00000065328.16   |        | -1.177857443 | background   | background |         |         |
| ENSG00000065911.11   |        | -1.953566306 | background   | background |         |         |
| ENSG00000066056.13   |        | -1.905259999 | background   | background |         |         |
| ENSG00000066248.14   |        | 1.313798958  | background   | background |         |         |
| ENSG00000066279.17   |        | -1.204398833 | background   | background |         |         |
| ENSG00000066813.14   |        | 3.042756033  | background   | background |         |         |
| 194 | ENSG00000067057.16 | -1.864103103 | background | background | background | 4 |
| 194 | ENSG00000067082.14 | -1.302130337 | background | background | 5 | 5 |
| 194 | ENSG00000068489.12 | -1.34891637 | background | 5 | background | 4 |
| 194 | ENSG00000068831.18 | 5.124325563 | background | background | 5 | 5 |
| 194 | ENSG00000069275.12 | -1.662946069 | background | background | 5 | 5 |
| 194 | ENSG00000069493.14 | 1.370198521 | background | background | 5 | 5 |
| 194 | ENSG00000070404.9 | -1.021701694 | NA | background | background | background |
| 194 | ENSG00000070669.16 | -2.219938752 | background | background | background | 5 |
| 194 | ENSG00000070729.13 | 2.87467468 | S | background | background | 5 |
| 194 | ENSG00000070731.10 | 3.0860469 | background | background | background | 5 |
| 194 | ENSG00000070814.17 | -1.014076326 | background | background | background | 5 |
| 194 | ENSG00000070985.13 | 3.769411968 | background | background | background | 4 |
| 194 | ENSG00000071242.11 | -1.315492572 | background | background | 5 | 5 |
| 194 | ENSG00000071539.13 | -1.018046536 | background | background | background | 5 |
| 194 | ENSG00000072571.19 | -1.229679921 | background | background | background | 5 |
| 194 | ENSG00000072952.18 | 2.603207654 | S | background | background | 5 |
| 194 | ENSG00000073111.13 | -1.134241788 | background | background | background | 5 |
| 194 | ENSG00000073536.17 | -1.046997861 | S | background | background | 5 |
| 194 | ENSG00000073910.20 | 1.621081209 | background | background | background | 4 |
| 194 | ENSG00000074201.8 | -1.210241071 | background | background | background | 5 |
| 194 | ENSG00000074276.10 | 1.136719835 | background | background | background | 5 |
| 194 | ENSG00000074370.17 | 4.256990998 | background | background | background | 5 |
| 194 | ENSG00000074582.12 | -1.081582026 | background | background | background | background |
| 194 | ENSG00000074800.13 | -1.094552322 | background | background | background | 5 |
| 194 | ENSG00000074935.13 | -1.738165952 | background | background | background | 5 |
| 194 | ENSG00000075218.18 | -1.187750061 | S | background | background | 5 |
| 194 | ENSG00000075618.17 | -1.158057673 | background | background | background | 5 |
| 194 | ENSG00000075702.16 | -1.312180499 | S | NA | background | 5 |
| 194 | ENSG00000075826.16 | 2.738686381 | S | background | background | 5 |
| 194 | ENSG00000076003.4 | -1.213140762 | background | background | background | background |
| 194 | ENSG00000076248.10 | -1.015606792 | background | background | 4 | 4 |
| 194 | ENSG00000076382.16 | -1.195994068 | background | background | background | 5 |
| 194 | ENSG00000076641.4 | -2.1540157 | background | background | 4 | 4 |
| 194 | ENSG00000076706.16 | -1.34602215 | background | background | background | background |
| 194 | ENSG00000077152.9 | -1.405806131 | background | background | background | 5 |
| 194 | ENSG00000077514.8 | -1.355861928 | background | background | background | 4 |
| 194 | ENSG00000077684.15 | -1.101301383 | S | background | background | 5 |
| 194 | ENSG00000078804.12 | 1.002720156 | background | background | background | 5 |
| 194 | ENSG00000079156.16 | 3.806674043 | S | background | background | 4 | 4 |
| 194 | ENSG00000079393.20 | 2.178628475 | S | background | background | 5 |
| Ensembl ID | Gene Product | Expression Value | Background Value | Background Count |
|------------|--------------|------------------|------------------|------------------|
| ENSG00000079459.12 | -1.002735634 | background | background | background | 5 |
| ENSG00000079462.7 | -1.843737944 | NA | background | background | 5 |
| ENSG00000079557.4 | 1.451575396 | background | background | background | 5 |
| ENSG00000079616.12 | -1.007965427 | background | background | background | 5 |
| ENSG00000079689.13 | -1.242792996 | background | background | background | 5 |
| ENSG00000079691.17 | -1.077314993 | background | background | background | 3 |
| ENSG00000080031.9 | 1.040819902 | background | background | background | 5 |
| ENSG00000080293.9 | 2.199711009 | background | background | background | 5 |
| ENSG00000080644.15 | -2.750812569 | background | background | background | 5 |
| ENSG00000080986.12 | -1.543451667 | background | background | background | 4 |
| ENSG00000081320.10 | -1.195165842 | background | background | background | 5 |
| ENSG00000081985.10 | 4.936634733 | background | background | background | 5 |
| ENSG00000082074.15 | 5.42124056 | background | background | background | 4 |
| ENSG00000082269.16 | -1.191153024 | 4 | background | background | 4 |
| ENSG00000083123.14 | -1.038454756 | background | background | background | 5 |
| ENSG00000083454.21 | -1.704401799 | background | background | background | 5 |
| ENSG00000083844.10 | 1.09563998 | background | background | background | 5 |
| ENSG00000084110.10 | 3.325960882 | background | background | background | 5 |
| ENSG00000084734.8 | 1.589796472 | background | background | background | 5 |
| ENSG00000084754.10 | -1.171901814 | background | background | background | 5 |
| ENSG00000085840.12 | -1.258312626 | background | background | background | 5 |
| ENSG00000086696.10 | 1.678916497 | NA | background | background | 5 |
| ENSG00000087116.14 | 1.211921212 | background | background | background | 5 |
| ENSG00000087237.10 | 1.738783559 | 5 | background | background | 5 |
| ENSG00000087245.12 | 1.391406869 | background | background | background | 3 |
| ENSG00000087266.15 | -1.339205363 | background | background | background | 4 |
| ENSG00000088305.18 | -1.39894213 | background | background | background | 5 |
| ENSG00000088325.15 | -1.491569068 | background | background | background | 5 |
| ENSG00000088826.17 | -1.328559152 | background | background | background | 5 |
| ENSG00000088836.12 | 1.199789296 | 5 | background | background | 5 |
| ENSG00000089041.16 | 2.597042343 | background | background | background | 5 |
| ENSG00000089127.12 | 1.390847851 | background | background | background | 5 |
| ENSG00000089163.4 | 1.070430025 | background | background | background | 5 |
| ENSG00000089685.14 | -1.537716849 | background | background | background | 5 |
| ENSG00000089847.12 | 2.373726136 | background | background | background | 5 |
| ENSG00000090238.11 | 1.771667428 | background | background | background | 5 |
| ENSG00000090447.11 | -1.092673325 | background | background | background | 5 |
| ENSG00000090512.11 | 1.068798123 | background | background | background | 5 |
| ENSG00000090674.15 | 1.36765049 | background | background | background | 5 |
| ENSG00000090863.11 | -1.594541757 | 4 | background | background | 4 |
| ENSG00000090889.11 | -1.265691225 | 4 | background | background | 4 |
| Gene ID          | Value    | Background 1 | Background 2 | Background 3 | Background 4 |
|------------------|----------|--------------|--------------|--------------|--------------|
| ENSG00000090924.14 | -1.016284207 | background | background | background | 5 |
| ENSG00000090971.4     | -1.268638227 | NA           | background | background | 5 |
| ENSG00000091136.13    | -1.532456535 | 5 background | background | background | 4 |
| ENSG00000091138.12    | 1.704139417 | background | background | background | 5 |
| ENSG00000091409.14    | -1.17891913  | background | background | background | 5 |
| ENSG00000091428.17    | 1.609989713 | background | background | background | 4 |
| ENSG00000091622.15    | 1.662076819 | 5 background | background | background | 4 |
| ENSG00000091651.8     | -1.048938657 | background | background | background | background |
| ENSG00000091704.9     | 5.05908416   | background | background | background | 5 |
| ENSG00000091879.13    | 3.23389472   | background | background | background | 5 |
| ENSG00000092036.18    | -1.001365077 | background | background | background | 5 |
| ENSG00000092295.11    | 1.184464722  | background | background | background | 5 |
| ENSG00000092445.11    | -1.030445368 | background | background | background | 5 |
| ENSG00000092470.11    | -1.027006938 | background | background | background | 5 |
| ENSG00000092607.13    | 1.560850794  | background | background | background | 5 |
| ENSG00000092621.12    | -1.337056894 | 5 background | background | background | 4 |
| ENSG00000092853.13    | -1.517503985 | 5 background | background | background | 5 |
| ENSG00000093009.9     | -1.171661508 | background | background | background | 5 |
| ENSG00000093072.15    | 4.566474125  | background | background | background | 5 |
| ENSG00000095303.14    | 3.425664228  | background | background | background | 5 |
| ENSG00000095397.13    | 1.465789931  | background | background | background | 4 |
| ENSG00000095464.9     | 2.74955287   | background | background | background | 5 |
| ENSG00000095752.6     | -2.915654754 | background | background | background | 5 |
| ENSG00000095932.6     | 1.239683539  | background | background | background | 5 |
| ENSG00000095970.16    | 5.52756128   | background | background | background | 5 |
| ENSG00000096088.16    | 2.417228758  | background | background | background | 5 |
| ENSG00000096433.10    | -1.714929743 | 5 background | background | background | 5 |
| ENSG00000099260.10    | 1.21067033   | background | background | background | background |
| ENSG00000099308.10    | 1.319912075  | 5 NA         | background | background | 4 |
| ENSG00000099365.10    | 2.38426201   | background | background | background | 5 |
| ENSG00000099622.13    | -1.176686725 | background | background | background | 5 |
| ENSG00000099834.18    | 1.779634751  | background | background | background | 5 |
| ENSG00000099866.14    | 2.020040429  | NA           | background | background | background |
| ENSG00000099901.16    | -1.009647128 | background | background | background | background |
| ENSG00000100024.14    | 1.787265931  | background | background | background | 5 |
| ENSG00000100097.11    | -1.042073944 | background | background | background | 5 |
| ENSG00000100162.14    | -1.528289616 | 5 background | background | background | 5 |
| ENSG00000100197.20    | 2.512175815  | background | background | background | background |
| ENSG00000100234.11    | 1.361104148  | background | background | background | 5 |
| ENSG00000100246.12    | -1.025369466 | background | background | background | 5 |
| ENSG00000100284.20    | 1.129551653  | background | background | background | 5 |
| Gene ID    | Feature ID | Value       | genotype 1 | genotype 2 | genotype 3 | genotype 4 |
|------------|------------|-------------|------------|------------|------------|------------|
| ENSG00000100292.16 | 194 | 1.399607537 | background | background | background | background |
| ENSG00000100297.15 | 194 | -1.276921561 | S          | background | background | 5          |
| ENSG00000100314.3 | 194 | 2.107349295 | background | background | background | 5          |
| ENSG00000100373.9 | 194 | 1.279371539 | background | background | background | 4          |
| ENSG00000100379.17 | 194 | 1.08532729  | background | background | background | 5          |
| ENSG00000100439.10 | 194 | 1.33277759  | background | background | background | background |
| ENSG00000100479.12 | 194 | -1.405863809 | background | background | background | 5          |
| ENSG00000100557.9 | 194 | -2.003565333 | background | background | background | 5          |
| ENSG00000100628.11 | 194 | -1.303779906 | S          | background | background | 4          |
| ENSG00000100629.16 | 194 | -1.060403271 | background | background | background | 4          |
| ENSG00000100749.7 | 194 | -1.01188266  | background | background | background | 4          |
| ENSG00000100823.11 | 194 | -1.39558709  | background | background | background | 5          |
| ENSG00000100889.11 | 194 | 1.416247244  | S          | background | background | 5          |
| ENSG00000100949.14 | 194 | 1.419782177  | background | background | background | 5          |
| ENSG00000101057.15 | 194 | -1.34955396  | background | background | background | 5          |
| ENSG00000101098.12 | 194 | 2.926394637  | background | background | background | 5          |
| ENSG00000101104.12 | 194 | -1.518848445 | background | NA         | background | 5          |
| ENSG00000101188.4 | 194 | 2.221429412  | background | background | background | 4          |
| ENSG00000101210.10 | 194 | -1.462797937 | background | background | background | 5          |
| ENSG00000101265.15 | 194 | -2.137927797 | background | background | S          | 5          |
| ENSG00000101349.16 | 194 | 1.803383559  | background | background | background | 4          |
| ENSG00000101417.11 | 194 | 2.017614044  | background | background | background | 5          |
| ENSG00000101546.12 | 194 | -1.22212813   | background | S          | background | 5          |
| ENSG00000101577.9 | 194 | 1.332147973  | S          | S          | background | 5          |
| ENSG00000101584.13 | 194 | 1.586753578  | S          | background | background | 5          |
| ENSG00000101621.16 | 194 | -1.086927727 | 4          | background | S          | 4          |
| ENSG00000101622.17 | 194 | 1.48460563   | background | background | background | 5          |
| ENSG00000102032.12 | 194 | 2.050955459  | background | background | background | 5          |
| ENSG00000102230.13 | 194 | -1.118671018 | background | background | background | 4          |
| ENSG00000102302.7 | 194 | 1.11100745   | background | background | background | 5          |
| ENSG00000102316.16 | 194 | 1.23747976   | background | background | background | 5          |
| ENSG00000102359.6 | 194 | 1.078646613  | background | background | background | 4          |
| ENSG0000010284.13 | 194 | -1.215073799 | background | background | background | 4          |
| ENSG00000102401.19 | 194 | 1.167953261  | background | background | background | background |
| ENSG00000102547.18 | 194 | 1.210123534  | background | background | background | 5          |
|     | ENSG00000102554.13 | -1.194148989 | background | background | background | 5  |
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| 194 | ENSG00000102854.15 | -1.54571025  | background | background | background | 5  |
| 194 | ENSG00000102886.14 | 1.669952261  | background | background | background | 4  |
| 194 | ENSG00000103021.9  | -3.141767575 | background | background | 5          |    |
| 194 | ENSG00000103034.14 | -1.701765395 | background | background | 5          |    |
| 194 | ENSG00000103154.9  | 4.870992568  | background | background | 5          |    |
| 194 | ENSG00000103187.7  | -1.19938813  | background | background | 5          |    |
| 194 | ENSG00000103260.8  | -1.337091356 | background | background | 5          |    |
| 194 | ENSG00000103342.12 | -1.159382962 | background | background | NA         | 5  |
| 194 | ENSG00000103375.10 | 3.903182758  | background | background | 5          |    |
| 194 | ENSG00000103494.12 | -1.111308177 | background | background | 5          |    |
| 194 | ENSG00000103546.18 | 2.111113358  | background | background | 4          |    |
| 194 | ENSG00000103569.9  | 3.64630709   | background | background | 4          |    |
| 194 | ENSG00000103647.12 | -2.979835214 | background | background | 4          |    |
| 194 | ENSG00000103888.16 | -1.139619489 | background | background | 4          |    |
| 194 | ENSG00000103966.10 | -1.143225981 | background | background | 5          |    |
| 194 | ENSG00000103995.13 | -1.69015606  | background | background | 5          |    |
| 194 | ENSG00000104147.8  | -1.155492278 | background | background | 5          |    |
| 194 | ENSG00000104371.4  | 2.319528943  | background | background | 5          |    |
| 194 | ENSG00000104381.12 | -3.17663846  | background | background | 4          |    |
| 194 | ENSG00000104537.16 | 1.93831313   | background | background | 4          |    |
| 194 | ENSG00000104549.11 | -1.03005514  | background | background | 5          |    |
| 194 | ENSG00000104738.16 | -1.227283816 | background | background | 5          |    |
| 194 | ENSG00000104889.5  | -1.02456883  | background | background | 5          |    |
| 194 | ENSG00000105011.8  | -1.245092278 | background | background | 5          |    |
| 194 | ENSG00000105219.8  | 1.410166751  | NA         | background | background |    |
| 194 | ENSG00000105281.12 | -1.087845207 | background | background | 4          |    |
| 194 | ENSG00000105290.11 | -1.107140523 | background | background | 5          |    |
| 194 | ENSG00000105321.12 | 1.04211695   | background | background | 5          |    |
| 194 | ENSG00000105398.3  | 1.918596021  | background | background | 5          |    |
| 194 | ENSG00000105552.14 | 1.247110287  | background | background | 5          |    |
| 194 | ENSG00000105613.9  | 1.020023335  | 5          | background | background | 5  |
| 194 | ENSG00000105650.21 | 1.947127663  | background | background | 5          |    |
| 194 | ENSG00000105696.8  | -1.927949505 | background | background | 5          |    |
| 194 | ENSG00000105697.7  | -1.501122946 | NA         | background | background |    |
| 194 | ENSG00000105825.11 | -2.836074116 | NA         | 5          | background | 5  |
| 194 | ENSG00000106003.12 | -1.442739526 | background | background | background |    |
| 194 | ENSG00000106004.4  | 1.039113372  | NA         | background | background |    |
| 194 | ENSG00000106077.18 | -1.256485864 | background | background | background |    |
| 194 | ENSG00000106211.8  | 1.146911816  | background | background | background |    |
| 194 | ENSG00000106258.13 | 1.398748955  | background | background | background | 5  |
| GeneID   | Tissue | Expression   | Sample | Tissue | Expression   | Sample | Tissue | Expression   | Sample | Tissue | Expression   | Sample | Tissue | Expression   | Sample | Tissue | Expression   | Sample |
|----------|--------|--------------|--------|--------|--------------|--------|--------|--------------|--------|--------|--------------|--------|--------|--------------|--------|--------|--------------|--------|
| ENSG00000106462.10 | -1.392131229 | background | background | background | 4 |
| ENSG00000106483.11 | -1.845230915 | background | background | background | 5 |
| ENSG00000106526.10 | 1.127951232 | background | background | background | 4 |
| ENSG00000106701.11 | 1.087002722 | background | background | background | 5 |
| ENSG00000106780.8 | 1.399920835 | background | background | background | 5 |
| ENSG00000106852.15 | -1.855279117 | background | background | background | 5 |
| ENSG00000106853.18 | 1.139765334 | background | background | background | 4 |
| ENSG00000106948.16 | -1.055780785 | background | background | background | 5 |
| ENSG00000106952.7 | 5.60320942 | background | background | background | 5 |
| ENSG00000106991.13 | 2.610684052 | background | background | background | 5 |
| ENSG00000107099.15 | 1.880377882 | background | background | background | 4 |
| ENSG00000107130.9 | -1.411345521 | background | background | background | 5 |
| ENSG00000107147.12 | 3.581104142 | background | background | background | 4 |
| ENSG00000107159.12 | -1.256479951 | background | background | background | 4 |
| ENSG00000107281.9 | -1.460935323 | background | background | background | 5 |
| ENSG00000107378.19 | 1.604730205 | background | background | background | 5 |
| ENSG00000107771.15 | 1.284341931 | background | background | background | 4 |
| ENSG00000107833.10 | -1.162668222 | background | background | background | 4 |
| ENSG00000107864.10 | 1.018332297 | background | background | background | 3 |
| ENSG00000107984.9 | -1.276067675 | background | background | background | background |
| ENSG00000108448.21 | 1.484522002 | background | background | background | 5 |
| ENSG00000108590.10 | -1.035573774 | background | background | background | 5 |
| ENSG00000108602.17 | 4.68647193 | background | background | background | 5 |
| ENSG00000108669.16 | 1.410953073 | background | background | background | 4 |
| ENSG00000108786.10 | 1.577425212 | background | background | background | background |
| ENSG00000108821.13 | 4.649380409 | background | background | background | 5 |
| ENSG00000108932.11 | 1.050369422 | background | background | background | 4 |
| ENSG00000108946.14 | 1.516490521 | background | background | background | 4 |
| ENSG00000108984.13 | -1.240068095 | background | background | background | 4 |
| ENSG00000109063.14 | 1.13453027 | background | background | background | 5 |
| ENSG00000109084.13 | -1.310101851 | background | background | background | 5 |
| ENSG00000109089.7 | 1.186270751 | background | background | background | 5 |
| ENSG00000109625.18 | 1.739746353 | background | background | background | 4 |
| ENSG00000109654.14 | 1.058718062 | background | background | background | 4 |
| ENSG00000109674.3 | -1.697973948 | background | background | background | 4 |
| ENSG00000109736.14 | -1.060231285 | background | background | background | background |
| ENSG00000109758.8 | 2.05445369 | background | background | background | 5 |
| ENSG00000109758.8 | 2.05445369 | background | background | background | 5 |
| ENSG00000109805.9 | -1.408307123 | background | background | background | background |
| ENSG00000110046.12 | 1.583788754 | background | background | background | 5 |
| ENSG00000110243.11 | 1.391691213 | background | background | background | 5 |
| Genes       | Expression Value | Background | P-value | q-value | Status | Feature | Description |
|------------|------------------|-----------|---------|---------|--------|---------|-------------|
| ENSG00000110436.11 | 1.770047378     | background | 5       |         |        |         |             |
| ENSG00000110492.15 | 1.193015423     | background | background | background | 5     | background |             |
| ENSG00000110628.13 | 1.103658169     | background | background | background | 5     | background |             |
| ENSG00000110660.14 | -1.35603197     | background | background | background | 5     | background |             |
| ENSG00000110719.19 | 1.131901845     | background | 5       |         |        |         |             |
| ENSG00000110777.11 | 1.654906104     | background | background | background | 5     | background |             |
| ENSG00000110799.13 | 2.452573706     | background | 5       |         |        |         |             |
| ENSG00000110811.19 | -1.160470676    | background | background | background | 5     | background |             |
| ENSG00000110881.11 | -1.672041433    | background | background | background | 5     | background |             |
| ENSG00000110887.7  | 1.750827223     | background | background | background | 5     | background |             |
| ENSG00000111012.9  | 1.867966137     | background | background | background | 5     | background |             |
| ENSG00000111145.7  | -1.035893684    | background | background | background | 4     | background |             |
| ENSG00000111181.12 | 3.280253061     | background | background | background | 4     | background |             |
| ENSG00000111199.10 | 1.83023168      | background | background | background | 5     | background |             |
| ENSG00000111247.14 | -1.226330922    | background | background | background | 5     | background |             |
| ENSG00000111252.10 | -1.294920899    | background | background | background | 4     | background |             |
| ENSG00000111319.12 | -2.012734206    | background | background | background | 5     | background |             |
| ENSG00000111335.12 | 2.423284836     | background | background | background | 5     | background |             |
| ENSG00000111344.11 | 5.886050121     | background | background | background | 5     | background |             |
| ENSG00000111371.15 | -1.05916598     | background | background | background | 4     | background |             |
| ENSG00000111424.10 | 2.847741768     | background | background | background | 5     | background |             |
| ENSG00000111450.13 | -1.414756976    | background | background | background | 5     | background |             |
| ENSG00000111490.12 | 2.458262802     | background | background | NA       | 5     | background |             |
| ENSG00000111554.14 | -1.02986563     | 5 background | background | background | 4     | background |             |
| ENSG00000111665.11 | -1.957024883    | background | background | background | 5     | background |             |
| ENSG00000111674.8  | -1.003054964    | background | background | background | 5     | background |             |
| ENSG00000111728.10 | 4.502819555     | background | background | background | 5     | background |             |
| ENSG00000111845.4  | -1.055434096    | background | background | background | 5     | background |             |
| ENSG00000111860.13 | 2.473716927     | 5 background | background | background | 4     | background |             |
| ENSG00000111913.17 | 3.855014228     | background | background | background | 5     | background |             |
| ENSG00000111981.4  | -2.21851589     | NA         | background | background | 5     | background |             |
| ENSG00000112029.9  | -1.10108693     | background | background | background | 5     | background |             |
| ENSG00000112290.12 | -1.264526315    | background | background | background | 4     | background |             |
| ENSG00000112299.7  | -1.709894173    | background | background | background | 4     | background |             |
| ENSG00000112337.10 | 2.012945555     | background | background | background | 5     | background |             |
| ENSG00000112343.10 | 1.835734319     | background | background | background | 5     | background |             |
| ENSG00000112394.16 | 1.176377265     | 5 background | background | background | 4     | background |             |
| ENSG00000112667.12 | -1.079259339    | NA         | background | background | 5     | background |             |
| ENSG00000112742.9  | -1.04078999     | background | background | background | 4     | background |             |
| ENSG00000112818.9  | 5.414549784     | background | background | background | 5     | background |             |
| ENSG00000112984.11 | -1.338681096    | 5 background | background | background | 5     | background |             |
| Gene               | Value          | Background1 | Background2 | Background3 | Background4 | Background5 | Background6 | Background7 | Background8 | Background9 | Background10 |
|--------------------|----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| ENSG00000113272.13 | -1.116433284   | background  | background  | background  | 5           | 5           |             |             |             |             |              |
| ENSG00000113356.11 | -1.372039032   | background  | background  | background  | 5           |             |             |             |             |             |              |
| ENSG00000113368.11 | -1.560374535   | background  | background  | background  | 5           |             |             |             |             |             |              |
| ENSG00000113369.8  | 2.982950843    | background  | background  | background  |             |             |             |             |             |             |              |
| ENSG00000113448.18 | 1.163362627    | background  | background  | background  | 4           |             |             |             |             |             |              |
| ENSG00000113460.12 | -1.291858918   | background  | background  | background  | 5           |             |             |             |             |             |              |
| ENSG00000113494.16 | 1.226934294    | 5           | background  | background  | 3           |             |             |             |             |             |              |
| ENSG00000113739.10 | -1.412454911   | background  | background  | background  | background  |             |             |             |             |             |              |
| ENSG00000113742.12 | 1.519517492    | 5           | background  | 5           |             |             |             |             |             |             |              |
| ENSG00000113758.13 | -1.384474972   | 5           | background  | 5           |             |             |             |             |             |             |              |
| ENSG00000113810.15 | -1.364964135   | background  | background  | background  | background  | 4           |             |             |             |             |              |
| ENSG00000113889.11 | 1.361163653    | background  | background  | background  | 5           |             |             |             |             |             |              |
| ENSG00000113905.4  | 2.492093442    | background  | background  | background  | 5           |             |             |             |             |             |              |
| ENSG00000113916.17 | 1.058657542    | background  | background  | background  | 5           |             |             |             |             |             |              |
| ENSG00000113966.9  | -1.081765229   | background  | background  | background  | 5           |             |             |             |             |             |              |
| ENSG0000011407.8   | -1.208378049   | 5           | background  | background  | 4           |             |             |             |             |             |              |
| ENSG00000114115.9  | -2.471216393   | background  | background  | background  | 5           |             |             |             |             |             |              |
| ENSG00000114166.7  | 1.107572334    | background  | background  | background  | 4           |             |             |             |             |             |              |
| ENSG00000114346.13 | -1.03544323    | background  | background  | background  | 5           |             |             |             |             |             |              |
| ENSG00000114698.14 | 1.23150122     | background  | background  | background  | 5           |             |             |             |             |             |              |
| ENSG00000114796.15 | 1.777440211    | background  | background  | background  | 4           |             |             |             |             |             |              |
| ENSG00000114841.17 | 2.609771166    | 5           | background  | background  | 5           |             |             |             |             |             |              |
| ENSG00000114923.16 | 1.945437885    | background  | background  | background  | 5           |             |             |             |             |             |              |
| ENSG00000115085.13 | 2.323231553    | 5           | background  | background  | 4           |             |             |             |             |             |              |
| ENSG00000115112.7  | 3.569859803    | 5           | background  | 5           |             |             |             |             |             |             |              |
| ENSG00000115163.14 | -1.578001891   | background  | background  | background  | 5           |             |             |             |             |             |              |
| ENSG00000115295.19 | 2.216790596    | 4           | background  | background  | 4           |             |             |             |             |             |              |
| ENSG00000115297.10 | 1.876298999    | background  | background  | background  | background  |             |             |             |             |             |              |
| ENSG00000115325.13 | -2.484146004   | background  | background  | background  | 5           |             |             |             |             |             |              |
| ENSG00000115596.3  | 1.718499457    | background  | background  | background  | 5           |             |             |             |             |             |              |
| ENSG00000115687.13 | -1.072398202   | background  | background  | background  | 4           |             |             |             |             |             |              |
| ENSG00000115902.10 | -1.018377622   | background  | background  | background  | 5           |             |             |             |             |             |              |
| ENSG00000115998.7  | 1.12171998     | background  | background  | background  | 4           |             |             |             |             |             |              |
| ENSG00000116014.9  | -1.198901502   | background  | background  | background  | background  |             |             |             |             |             |              |
| ENSG00000116117.17 | 1.488460474    | background  | background  | background  | 4           |             |             |             |             |             |              |
| ENSG00000116147.16 | -2.093626728   | background  | background  | background  | 4           |             |             |             |             |             |              |
| ENSG00000116254.17 | 4.496392271    | background  | background  | 4           |             |             |             |             |             |             |              |
| ENSG00000116525.13 | -1.468175214   | background  | background  | 5           |             |             |             |             |             |             |              |
| ENSG00000116604.17 | 1.07124164     | background  | background  | background  | 5           |             |             |             |             |             |              |
| ENSG00000116675.15 | 1.211397501    | background  | background  | background  | 4           |             |             |             |             |             |              |
| ENSG00000116701.14 | -3.002896554   | background  | background  | background  | 4           |             |             |             |             |             |              |
| ENSG00000116741.7 | 1.994693491 | background | background | background | 5 |
|-----------------|--------------|------------|------------|------------|---|
| ENSG00000116761.11 | -1.150557686 | background | background | background | 5 |
| ENSG00000116774.11 | -1.691024534 | background | background | background | 5 |
| ENSG00000116833.13 | 2.154949405 | background | background | background | 4 |
| ENSG00000116852.14 | 4.407017725 | background | background | background | 4 |
| ENSG00000116977.18 | 1.03122056 | background | background | background | 5 |
| ENSG00000116990.10 | 1.147633904 | NA | background | background | background |
| ENSG00000117215.14 | 5.30279633 | background | background | background | 5 |
| ENSG00000117318.8 | -3.38925665 | background | background | background | 5 |
| ENSG00000117472.9 | 2.252183866 | 5 | background | background | 5 |
| ENSG00000117543.20 | -1.043152536 | background | background | background | 5 |
| ENSG00000117586.10 | 1.74566951 | background | background | background | 5 |
| ENSG00000117632.22 | -1.285674079 | background | background | background | 5 |
| ENSG00000117650.12 | -1.214273074 | background | background | background | 4 |
| ENSG00000117724.12 | -2.004124493 | 4 | background | background | 4 |
| ENSG00000117877.10 | -1.597388164 | background | background | background | 5 |
| ENSG00000117983.17 | 5.80504944 | 5 | background | background | 4 |
| ENSG00000118004.17 | 1.470080558 | NA | background | background | 5 |
| ENSG00000118096.7 | -1.684225186 | background | background | background | background |
| ENSG00000118193.11 | -1.466945697 | background | background | background | 5 |
| ENSG00000118271.9 | 1.692801184 | background | background | background | background |
| ENSG00000118514.13 | 1.842881374 | background | background | background | 5 |
| ENSG00000118520.14 | 2.91783686 | background | background | background | 5 |
| ENSG00000118785.13 | 1.704107519 | background | background | background | 5 |
| ENSG00000119397.16 | -1.398714041 | 5 | background | background | 5 |
| ENSG00000119403.13 | -1.04479725 | background | background | background | 5 |
| ENSG00000119535.17 | 1.253104 | 5 | background | background | 4 |
| ENSG00000119547.5 | 1.218818171 | NA | background | background | 5 |
| ENSG00000119630.13 | 2.156690034 | background | background | background | 5 |
| ENSG00000119681.11 | -1.584440231 | 5 | background | background | 5 |
| ENSG00000119913.4 | 1.577318272 | background | NA | background | 5 |
| ENSG00000119936.12 | 1.960206622 | background | background | background | 5 |
| ENSG00000119950.20 | -1.219421417 | background | background | background | 5 |
| ENSG00000119969.14 | -1.72430712 | background | background | background | 5 |
| ENSG00000120254.15 | -1.599656923 | background | background | background | 4 |
| ENSG00000120278.15 | 2.957419019 | 5 | background | background | 5 |
| ENSG00000120539.14 | -1.108650797 | background | background | background | 5 |
| ENSG00000120802.13 | -1.032251864 | background | background | background | 5 |
| ENSG00000120833.13 | -1.60096154 | background | background | background | 5 |
| ENSG00000120885.21 | 1.065950162 | background | background | background | 4 |
| ENSG00000121068.13 | 1.358202131 | background | background | background | background |
| Gene ID   | Value         | Classification | Score  | Count |
|----------|---------------|----------------|--------|-------|
| 194      | ENSG00000121075.9 | 1.732517025    | background | 5    |
| 194      | ENSG00000121152.9 | -1.739171854   | background | 5    |
| 194      | ENSG00000121211.7 | -1.563401257   | background | 3    |
| 194      | ENSG00000121270.15 | 1.95680439     | background | 3    |
| 194      | ENSG00000121417.13 | 1.035870361    | background | 5    |
| 194      | ENSG00000121621.6 | -1.291406481   | background | 4    |
| 194      | ENSG00000121653.11 | -1.429794982   | background | 5    |
| 194      | ENSG00000121690.10 | 1.265897897    | background | 5    |
| 194      | ENSG00000121858.10 | 3.002183003    | background | 5    |
| 194      | ENSG00000122121.10 | 1.17961324     | background | 4    |
| 194      | ENSG00000122122.9 | 5.377301262    | background | 4    |
| 194      | ENSG00000122861.15 | -1.588005085   | background | 5    |
| 194      | ENSG00000122952.16 | -1.184625134   | background | 5    |
| 194      | ENSG00000123296.15 | -1.618209523   | background | 4    |
| 194      | ENSG00000123219.12 | -1.237026973   | background | 5    |
| 194      | ENSG00000123411.14 | -1.17605749    | background | 5    |
| 194      | ENSG00000123416.15 | -1.092473435   | background | 5    |
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| 194      | ENSG00000123838.10 | 1.250639316    | background | 4    |
| 194      | ENSG00000123843.12 | 1.051823819    | background | 5    |
| 194      | ENSG00000124143.10 | -1.346293612   | background | 5    |
| 194      | ENSG00000124253.10 | 3.711758293    | background | 5    |
| 194      | ENSG00000124568.10 | 2.011427607    | background | 5    |
| 194      | ENSG00000124713.5 | 2.124644169    | background | 5    |
| 194      | ENSG00000124762.13 | 1.923309256    | NA     | background | 4    |
| 194      | ENSG00000124766.6 | -2.506072648   | NA     | background | 4    |
| 194      | ENSG00000124839.12 | 2.056159222    | background | 5    |
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| 194      | ENSG00000125772.12 | 2.223931498    | background | 4    |
| 194      | ENSG00000125775.14 | 1.613393941    | background | 5    |
| 194      | ENSG00000125898.12 | -1.197718231   | NA     | background | 5    |
| 194      | ENSG00000125968.8 | -2.165041743   | NA     | background | 4    |
| 194      | ENSG00000125999.10 | 1.976197362    | background | 4    |
| 194      | ENSG00000126215.13 | -1.062756476   | background | 5    |
| 194      | ENSG00000126562.16 | 1.658934749    | background | 5    |
| 194      | ENSG00000126709.14 | 1.392033604    | NA     | background | 5    |
| 194 | ENSG00000126787.12 | -1.620020376 | background | background | background | 5 |
| 194 | ENSG00000126878.12 | 1.190442062 | background | background | 5 | 5 |
| 194 | ENSG00000127324.8 | 1.352623414 | background | background | background | 5 |
| 194 | ENSG00000127415.12 | 1.265102753 | background | background | background | 5 |
| 194 | ENSG00000127423.10 | -1.43392364 | background | background | background | 5 |
| 194 | ENSG00000127564.16 | -1.132429273 | background | background | 5 |
| 194 | ENSG00000127586.16 | -1.03332699 | background | background | background | 5 |
| 194 | ENSG00000127824.13 | 2.50529415 | background | background | background | 5 |
| 194 | ENSG00000127951.6 | 2.109545657 | NA | background | background | 5 |
| 194 | ENSG00000128242.12 | 1.190714709 | NA | background | background | 5 |
| 194 | ENSG00000128285.4 | 4.36194319 | NA | background | background | 5 |
| 194 | ENSG00000128564.6 | -1.822198859 | NA | background | background | 5 |
| 194 | ENSG00000128590.4 | 1.084387155 | background | background | 5 | 5 |
| 194 | ENSG00000128917.6 | 1.950514866 | background | background | background | 5 |
| 194 | ENSG00000128951.13 | -1.25038656 | background | background | background | 5 |
| 194 | ENSG00000128965.11 | -3.534426963 | background | background | background | 5 |
| 194 | ENSG00000129173.12 | -1.775951944 | background | background | background | 5 |
| 194 | ENSG00000129195.15 | -2.121946932 | background | background | background | 5 | 5 |
| 194 | ENSG00000129214.14 | 2.99964115 | background | background | background | 5 |
| 194 | ENSG00000129353.14 | 4.555789661 | 5 | background | background | 4 |
| 194 | ENSG00000129810.14 | -1.183808293 | background | background | background | 5 |
| 194 | ENSG00000129946.10 | -1.414225877 | background | NA | background | 5 |
| 194 | ENSG00000130035.6 | 5.93247781 | background | background | background | 5 |
| 194 | ENSG00000130164.13 | -1.111189871 | background | background | background | 5 | 5 |
| 194 | ENSG00000130294.15 | -3.715267158 | 5 | background | background | 5 |
| 194 | ENSG00000130307.11 | 1.960856137 | background | background | background | 3 |
| 194 | ENSG00000130475.14 | 1.63416666 | background | background | background | 5 |
| 194 | ENSG00000130477.15 | 2.989518602 | background | NA | background | 3 | 3 |
| 194 | ENSG00000130511.15 | -1.41196243 | background | background | background | 5 |
| 194 | ENSG00000130513.6 | 1.398846789 | NA | background | background | 5 |
| 194 | ENSG00000130561.16 | 3.003695928 | background | background | background | 5 |
| 194 | ENSG00000130598.15 | 1.630987402 | background | NA | background | background | 5 |
| 194 | ENSG00000130701.3 | 1.30194173 | background | background | background | 4 |
| 194 | ENSG00000130720.12 | -3.505692952 | background | background | background | 5 |
| 194 | ENSG00000130813.17 | 1.202706576 | background | background | background | 5 |
| 194 | ENSG00000130822.15 | 1.191351033 | background | background | background | 5 |
| 194 | ENSG00000130876.11 | 3.381058114 | background | background | background | 5 |
| 194 | ENSG00000131016.16 | -1.993713509 | 5 | background | background | 4 |
| 194 | ENSG00000131037.14 | -1.361011955 | background | background | background | 5 |
| 194 | ENSG00000131061.13 | 1.11521131 | background | background | background | 4 |
| Gene ID | Background Score | Expression Score | Background Score | Expression Score |
|---------|------------------|------------------|------------------|------------------|
| ENSG00000131153.8 | background | background | 5 | 5 |
| ENSG00000131435.12 | background | background | 5 | 5 |
| ENSG00000131470.14 | background | background | 5 | 5 |
| ENSG00000131482.9 | background | background | 5 | 5 |
| ENSG00000131711.14 | background | background | 5 | 5 |
| ENSG00000131730.15 | background | background | 5 | 5 |
| ENSG00000131746.12 | background | background | 5 | 5 |
| ENSG00000131747.14 | background | background | 5 | 5 |
| ENSG00000131846.10 | background | background | 5 | 5 |
| ENSG00000131979.18 | background | background | 4 | 4 |
| ENSG00000131981.15 | background | background | 5 | 5 |
| ENSG00000132031.12 | background | background | 5 | 5 |
| ENSG00000132205.10 | background | background | 5 | 5 |
| ENSG00000132274.15 | background | background | 5 | 5 |
| ENSG00000132357.13 | background | background | 5 | 5 |
| ENSG00000132436.11 | background | background | 4 | 4 |
| ENSG00000132510.10 | background | background | 5 | 5 |
| ENSG00000132514.13 | background | background | 4 | 4 |
| ENSG00000132530.16 | background | background | 5 | 5 |
| ENSG00000132563.15 | background | background | 4 | 4 |
| ENSG00000132688.10 | background | background | 5 | 5 |
| ENSG00000132744.7 | background | background | 5 | 5 |
| ENSG00000132793.11 | background | background | 5 | 5 |
| ENSG00000132840.9 | background | background | 5 | 5 |
| ENSG00000132855.4 | background | background | 5 | 5 |
| ENSG00000132932.16 | background | background | 5 | 5 |
| ENSG00000133067.17 | background | background | 4 | 4 |
| ENSG00000133302.12 | background | background | 5 | 5 |
| ENSG00000133328.3 | background | background | 5 | 5 |
| ENSG00000133401.15 | background | background | 4 | 4 |
| ENSG00000133488.14 | background | background | 5 | 5 |
| ENSG00000133639.4 | background | background | 5 | 5 |
| ENSG00000133706.17 | background | background | 5 | 5 |
| ENSG00000133739.15 | background | background | 5 | 5 |
| ENSG00000133740.10 | background | background | 5 | 5 |
| ENSG00000133812.15 | background | background | 4 | 4 |
| ENSG00000133863.7 | background | background | 5 | 5 |
| ENSG00000134013.15 | background | background | 4 | 4 |
| ENSG00000134057.14 | background | background | 5 | 5 |
| ENSG00000134184.12 | background | background | 5 | 5 |
| ENSG00000134222.16 | background | background | 5 | 5 |
| Gene ID                  | Score     | Background | Nr | Background |
|-------------------------|-----------|------------|----|------------|
| ENSG00000134240.11      | 2.02617495| background | 4  | background |
| ENSG00000134253.9       | -1.35507389| background | 5  | background |
| ENSG00000134323.11      | 5.060895061| background | 5  | background |
| ENSG00000134339.8       | 3.313924609| background | 4  | background |
| ENSG00000134363.11      | 2.526019749| NA         | 4  | background |
| ENSG00000134398.14      | 1.909365408| background | 5  | background |
| ENSG00000134531.9       | -3.12236236| background | 5  | background |
| ENSG00000134551.12      | 5.878083408| background | 4  | background |
| ENSG00000134690.10      | -1.49795424| background | 4  | background |
| ENSG00000134824.13      | -1.62215623| background | 5  | background |
| ENSG00000134830.5       | 2.3667456  | NA         | 4  | background |
| ENSG00000134871.17      | 1.80034542| background | 4  | background |
| ENSG00000134954.14      | -2.74758162| background | 4  | background |
| ENSG00000135074.15      | -1.37867219| background | 3  | background |
| ENSG00000135127.11      | 1.00265888| background | 5  | background |
| ENSG00000135245.9       | -1.00010921| background | 5  | background |
| ENSG00000135269.17      | -1.60551510| background | 5  | background |
| ENSG00000135372.8       | -1.04747256| background | 5  | background |
| ENSG00000135373.12      | 2.53187439| background | 5  | background |
| ENSG00000135374.9       | 2.10741991| background | 5  | background |
| ENSG00000135378.3       | 1.17370719| background | 5  | background |
| ENSG00000135414.9       | -1.5619439| background | 5  | background |
| ENSG00000135439.11      | 3.10691189| background | 5  | background |
| ENSG00000135476.11      | -1.0341199| background | 5  | background |
| ENSG00000135636.13      | 1.47425744| background | 4  | background |
| ENSG00000135679.22      | 1.08498872| background | 5  | background |
| ENSG00000136167.13      | 1.39617887| background | 5  | background |
| ENSG00000136235.15      | 1.42484091| background | 5  | background |
| ENSG00000136305.11      | 1.71954805| background | 5  | background |
| ENSG00000136383.6       | 3.79545947| background | 5  | background |
| ENSG00000136457.9       | 1.81939427| background | 5  | background |
| ENSG00000136492.8       | -1.00422315| background | 4  | background |
| ENSG00000136518.16      | -1.55860919| background | 4  | background |
| ENSG00000136802.11      | 1.12085493| background | 5  | background |
| ENSG00000136869.13      | -2.91267568| background | 5  | background |
| ENSG00000136872.17      | 2.52761638| background | 5  | background |
| ENSG00000136881.11      | 1.63960128| background | 5  | background |
| ENSG00000136895.18      | -1.38867474| background | 3  | background |
| ENSG00000136943.10      | -1.0305741| background | 5  | background |
| ENSG00000136982.5       | -1.5818059| background | 4  | background |
| Chromosome | Gene ID      | Log2 Fold Change | Annotation | Statistic | P-value |
|------------|-------------|-----------------|------------|-----------|---------|
| 194        | ENSG00000136997.17 | -1.173177135    | background | NA        | NA      |
| 194        | ENSG00000137094.14 | -1.368651745    | background | background | NA      |
| 194        | ENSG00000137135.17 | -1.305074009    | background | background | 5       |
| 194        | ENSG00000137204.14 | 3.00690491      | background | background | 5       |
| 194        | ENSG00000137216.18 | 1.153388503     | background | background | 5       |
| 194        | ENSG00000137251.15 | 3.035127331     | background | background | 4       |
| 194        | ENSG00000137270.10 | 3.81954368      | background | background | 5       |
| 194        | ENSG00000137285.9  | -1.219742351    | background | background | 5       |
| 194        | ENSG00000137309.19 | -1.142079677    | background | background | 5       |
| 194        | ENSG00000137404.14 | -1.466807555    | background | background | 5       |
| 194        | ENSG00000137460.8  | 1.203347873     | background | background | 5       |
| 194        | ENSG00000137474.19 | 1.576289623     | background | background | 5       |
| 194        | ENSG00000137486.16 | 1.011815061     | background | background | 5       |
| 194        | ENSG00000137561.4  | 3.940491909     | background | background | 5       |
| 194        | ENSG00000137802.13 | 1.083122506     | background | background | 4       |
| 194        | ENSG00000137807.13 | -1.551183336    | background | background | 5       |
| 194        | ENSG00000137817.16 | 2.232341067     | background | background | 4       |
| 194        | ENSG00000137819.13 | -2.027103256    | background | background | 5       |
| 194        | ENSG00000137834.14 | -1.568563963    | background | background | 5       |
| 194        | ENSG00000137869.14 | 1.816380703     | background | background | 4       |
| 194        | ENSG00000138078.15 | 1.402632309     | background | background | 4       |
| 194        | ENSG00000138119.16 | -2.109128742    | background | NA        | 4       |
| 194        | ENSG00000138134.11 | -1.201887094    | background | background | 4       |
| 194        | ENSG00000138160.5  | -1.43731016     | background | background | 4       |
| 194        | ENSG00000138180.15 | -1.270415622    | background | background | 5       |
| 194        | ENSG00000138182.14 | -1.163584958    | background | background | 5       |
| 194        | ENSG00000138347.15 | 4.85282825      | background | background | 4       |
| 194        | ENSG00000138376.10 | -1.101202657    | background | background | 4       |
| 194        | ENSG00000138443.15 | -1.181108347    | background | background | 5       |
| 194        | ENSG00000138587.5  | -1.597640517    | background | background | 5       |
| 194        | ENSG00000138600.9  | -1.696415085    | background | background | 5       |
| 194        | ENSG00000138606.19 | 1.66212608      | background | background | 5       |
| 194        | ENSG00000138772.12 | -1.675343212    | background | background | 4       |
| 194        | ENSG00000138778.11 | -1.454063785    | background | background | 4       |
| 194        | ENSG00000139055.6  | -1.712979463    | background | background | 5       |
| 194        | ENSG00000139112.10 | 1.375276227     | background | background | 5       |
| 194        | ENSG00000139209.15 | 1.099986598     | background | background | 4       |
| 194        | ENSG00000139269.2  | -1.134448207    | NA         | background | 5       |
| 194        | ENSG00000139278.9  | 1.93156308      | background | background | 5       |
| 194        | ENSG00000139410.14 | 1.580657364     | background | background | 5       |
| 194        | ENSG00000139428.11 | -1.084865567    | background | background | 4       |
| Gene ID      | Value       | Background | Backdrop | 4  | 4  |
|-------------|-------------|------------|----------|----|----|
| ENSG00000139514.12 | -1.611875879 | background  | background | 4 | 4 |
| ENSG00000139547.7  | 3.745309546  | background  | background | 4 | 4 |
| ENSG00000139618.14 | -1.269345372 | background  | background | 5 |    |
| ENSG00000139714.12 | 1.115747842  | background  | background | 4 |    |
| ENSG00000139734.17 | -1.378087532 | background  | background | 4 |    |
| ENSG00000139880.19 | -1.364796796 | background  | background | 5 |    |
| ENSG00000139914.6  | 2.14342052   | NA          | background | 4 |    |
| ENSG00000139988.9  | 1.791984126  | background  | background | 4 |    |
| ENSG00000140044.12 | -3.476938233 | background  | background | 4 |    |
| ENSG00000140092.14 | 2.741201971  | background  | background | 4 |    |
| ENSG00000140107.10 | 3.168625315  | background  | background | 5 |    |
| ENSG00000140274.13 | 2.751250503  | background  | background | 5 |    |
| ENSG00000140279.12 | 3.457606402  | 5           | background | 5 |    |
| ENSG00000140451.12 | -1.829930883 | background  | background | 4 |    |
| ENSG00000140465.13 | 1.907524651  | background  | background | 4 |    |
| ENSG00000140488.15 | 1.685970118  | background  | background | 5 | 5  |
| ENSG00000140525.17 | -1.062109983 | background  | background | 5 |    |
| ENSG00000140526.17 | 1.446388723  | background  | background | 5 | 4  |
| ENSG00000140534.13 | -1.488255004 | background  | background | 4 |    |
| ENSG00000140807.6  | -1.156257928 | background  | background | 4 |    |
| ENSG00000140832.9  | 1.051683193  | background  | background | 5 |    |
| ENSG00000140853.15 | 1.642668421  | 5           | background | 5 |    |
| ENSG00000140961.12 | 1.66678992   | background  | background | 5 |    |
| ENSG00000141449.14 | 1.981629491  | background  | background | 5 |    |
| ENSG00000141485.16 | 1.027200452  | background  | background | 5 |    |
| ENSG00000141497.13 | 2.374538812  | background  | background | 4 |    |
| ENSG00000141504.11 | 1.417898206  | background  | background | 4 |    |
| ENSG00000141542.10 | -1.099669056 | background  | background | 5 |    |
| ENSG00000141642.8  | -1.2789898   | NA          | background | 4 |    |
| ENSG00000141682.11 | -1.322152642 | NA          | background | 4 |    |
| ENSG00000142046.14 | 1.518119035  | background  | background | 4 |    |
| ENSG00000142182.8  | 1.744573143  | background  | background | 4 |    |
| ENSG00000142277.10 | -1.630070179 | background  | background | 4 |    |
| ENSG00000142484.6  | 1.018046389  | background  | background | 5 |    |
| ENSG00000142606.15 | 3.903942277  | background  | background | 4 |    |
| ENSG00000142632.16 | -1.104552648 | background  | background | 5 |    |
| ENSG00000142634.12 | -1.072510566 | background  | background | 5 |    |
| ENSG00000142675.17 | 1.230500465  | background  | background | 5 |    |
| ENSG00000142686.7  | -1.1989754   | 5           | background | 5 |    |
| ENSG00000142731.10 | -1.262266813 | background  | background | 5 |    |
| ENSG00000142798.17 | -1.220148898 | background  | background | 4 |    |
| Gene ID        | Expression | Fold Change | State | Background |
|---------------|------------|-------------|-------|------------|
| ENSG00000142871.16 | -1.926761354 | background | background | background |
| ENSG00000142945.12 | -1.30193406 | S background | background | background |
| ENSG00000143126.7 | -1.086300364 | background | background | background |
| ENSG00000143195.12 | 3.842960461 | background | background | background |
| ENSG00000143217.8 | 1.544031433 | background | background | background |
| ENSG00000143228.12 | -1.332071689 | background | background | background |
| ENSG00000143365.17 | 1.66949031 | background | background | background |
| ENSG00000143409.15 | 1.23951942 | background | background | background |
| ENSG00000143434.15 | 1.35020306 | background | background | background |
| ENSG00000143457.10 | -1.289738476 | background | background | background |
| ENSG00000143476.17 | -1.338814001 | background | background | background |
| ENSG00000143486.15 | -1.029015355 | background | background | background |
| ENSG00000143627.17 | 1.253792352 | background | background | background |
| ENSG00000143632.14 | -1.018104696 | background | background | background |
| ENSG00000143819.12 | 1.604581261 | background | background | background |
| ENSG00000143845.14 | 1.05432108 | background | background | background |
| ENSG00000143847.15 | -2.15891885 | background | background | background |
| ENSG00000143862.7 | 1.165313752 | background | background | background |
| ENSG00000143921.6 | 1.166242404 | background | background | background |
| ENSG00000144035.3 | 1.931065431 | NA background | background | background |
| ENSG00000144045.13 | 1.088074555 | background | background | background |
| ENSG00000144130.11 | -2.871258366 | S background | background | background |
| ENSG00000144354.13 | -2.20830875 | background | background | background |
| ENSG00000144554.10 | -1.28819421 | S background | background | background |
| ENSG00000144596.12 | 3.890987928 | S background | background | background |
| ENSG00000144648.15 | 1.125949096 | NA background | background | background |
| ENSG00000144834.13 | -3.247538269 | background | background | background |
| ENSG00000144891.17 | 1.991761348 | NA background | background | background |
| ENSG00000144908.13 | 1.406423389 | background | background | background |
| ENSG00000145113.21 | 4.20531591 | background | background | background |
| ENSG00000145246.13 | 1.195158091 | S background | background | background |
| ENSG00000145321.12 | 3.232190295 | 5 background | background | background |
| ENSG00000145362.17 | 1.785494909 | background | background | background |
| ENSG00000145386.9 | -1.479321943 | background | background | background |
| ENSG00000145506.13 | -1.48109872 | background | background | background |
| ENSG00000145555.14 | -1.266036792 | background | background | background |
| ENSG00000145632.14 | 1.269055664 | background | background | background |
| ENSG00000145692.14 | 2.621185904 | background | background | background |
| ENSG00000145730.20 | -1.031185796 | S background | background | background |
| ENSG00000145779.7 | -1.448803387 | NA background | background | background |
| ENSG00000145949.9 | 3.729130857 | background | background | background |
| Gene Symbol | Log2 Fold Change | p-value | FDR | Status |
|-------------|-----------------|--------|-----|--------|
| ENSG00000146166.16 | 3.303728234 | background | background | background |
| ENSG00000146205.13 | -1.287567098 | background | background | background |
| ENSG00000146242.8 | -1.541784973 | background | background | background |
| ENSG00000146263.11 | -1.378728008 | background | background | background |
| ENSG00000146345.12 | 2.548284104 | background | background | background |
| ENSG00000146555.18 | -1.252694787 | background | background | background |
| ENSG00000146592.16 | -2.86822257 | background | background | background |
| ENSG00000146670.9 | -1.30480046 | background | background | background |
| ENSG00000146755.10 | 2.548284104 | background | background | background |

**Legend:**
- **Log2 Fold Change**: The logarithmic base 2 of the fold change.
- **p-value**: The p-value associated with the fold change.
- **FDR**: The False Discovery Rate.
- **Status**: Indicates if the gene is background or has a specific status.
| nPBG | Probe ID          | Log2 Fold Change | State       | Event       | State       | nPBG |
|------|-------------------|------------------|-------------|-------------|-------------|------|
| 194  | ENSG00000149742.9 | 1.18558804       | background  | background  | background  | 4    |
| 194  | ENSG00000149781.12 | 3.159019039      | 5           | background  | background  | 5    |
| 194  | ENSG00000150782.11 | -1.896303051     | background  | background  | background  | 5    |
| 194  | ENSG00000150938.9 | -1.018295448     | background  | background  | background  | 4    |
| 194  | ENSG00000151012.13 | -1.74891066      | 5           | background  | background  | 5    |
| 194  | ENSG00000151062.14 | -1.113349422     | 5           | background  | background  | 5    |
| 194  | ENSG00000151360.9 | 3.36395043       | background  | background  | background  | 5    |
| 194  | ENSG00000151362.17 | 2.439069855      | 5           | background  | background  | 5    |
| 194  | ENSG00000151368.9 | 1.18346525       | background  | background  | background  | 4    |
| 194  | ENSG00000151460.14 | 1.213748237      | 5           | background  | background  | 5    |
| 194  | ENSG00000151812.14 | 4.485385922      | background  | background  | background  | 4    |
| 194  | ENSG00000152078.9 | 1.326164845      | background  | background  | background  | 4    |
| 194  | ENSG00000152217.16 | 1.208956241      | 5           | background  | background  | 5    |
| 194  | ENSG00000152253.8 | -1.158886246     | NA          | background  | background  | 5    |
| 194  | ENSG00000152315.4 | 2.663551166      | NA          | background  | background  | 4    |
| 194  | ENSG00000152527.13 | 1.153553657      | background  | background  | background  | 5    |
| 194  | ENSG00000152556.15 | 1.031886523      | background  | background  | background  | 5    |
| 194  | ENSG00000152620.12 | 1.19877622       | NA          | background  | background  | 5    |
| 194  | ENSG00000153044.9 | -1.02798907      | background  | background  | background  | 5    |
| 194  | ENSG00000153885.14 | -1.316902694     | background  | background  | 5            |
| 194  | ENSG00000153902.13 | 2.059369014      | background  | background  | background  | 5    |
| 194  | ENSG00000154025.15 | 4.129509659      | background  | background  | background  | 5    |
| 194  | ENSG00000154027.18 | -4.377976759     | background  | background  | background  | 4    |
| 194  | ENSG00000154146.12 | -2.92419303      | background  | background  | background  |      |
| 194  | ENSG00000154217.14 | -1.839782924     | NA          | background  | background  | 4    |
| 194  | ENSG00000154252.11 | 1.330266306      | background  | background  | background  |      |
| 194  | ENSG00000154265.15 | 1.519620623      | background  | background  | background  | 4    |
| 194  | ENSG00000154358.20 | -2.264331634     | background  | NA          | NA          | 3    |
| 194  | ENSG00000155093.17 | 1.133683692      | background  | background  | background  | 4    |
| 194  | ENSG00000155256.17 | 1.215406144      | background  | background  | background  | 5    |
| 194  | ENSG00000155749.12 | 2.714560627      | 5           | background  | background  | 5    |
| 194  | ENSG00000155846.16 | -1.734610118     | 5           | background  | background  | 4    |
| 194  | ENSG00000155849.15 | 3.170012954      | background  | background  | background  | 4    |
| 194  | ENSG00000155893.12 | -1.103587327     | background  | background  | background  | 3    |
| 194  | ENSG00000155970.11 | 1.092150639      | background  | background  | 5            |
| 194  | ENSG00000156096.13 | 2.374309253      | background  | background  | background  | 4    |
| 194  | ENSG00000156172.5 | -1.005498291     | background  | background  | background  | 5    |
| 194  | ENSG00000156384.14 | -1.21017588      | background  | background  | background  | 5    |
| 194  | ENSG00000156413.13 | 1.203673299      | NA          | 5           | background  | 5    |
| 194  | ENSG00000156453.13 | 2.469689762      | 5           | background  | background  | 5    |
| 194  | ENSG00000156509.13 | -2.130671996     | 5           | background  | background  | 5    |
| Gene ID          | Value        | Column 1 | Column 2 | Column 3 | Column 4 | Column 5 | Column 6 | Column 7 |
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| ENSG00000156515.21 | -2.52460482  | background | background | background | 4        |          |          |          |
| ENSG00000156535.13 | -1.855755092 | background | background | background | 5        | 3        |          |          |
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| ENSG00000156966.6  | -1.989708957 | NA        | background | background | 5        |          |          |          |
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| ENSG00000157087.17 | 1.300184828  | background | background | background | 5        | 4        |          |          |
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| ENSG00000157240.3  | -1.837609837 | background | background | background |          |          |          |          |
| ENSG00000157315.4  | 1.612858048  | background | background | background | 5        |          |          |          |
| ENSG00000157456.7  | -1.06698999  | NA        | background | background | 5        |          |          |          |
| ENSG00000157625.15 | 1.094178259  | 5         | background | background | 4        | 4        |          |          |
| ENSG00000157680.15 | 3.556114811  | background | NA        |          | 4        | 3        |          |          |
| ENSG00000157869.14 | -1.018635346 | background | background | background | 5        |          |          |          |
| ENSG00000158106.13 | 1.118539597  | background | background | background | 5        |          |          |          |
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| ENSG00000158683.7  | 3.439550604  | background | background | background | 5        |          |          |          |
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| ENSG00000158813.17 | -1.058045025 | background | background | background | 5        | 4        |          |          |
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| ENSG00000158865.12 | 1.298100119  | 5         | background | background | 4        |          |          |          |
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| ENSG00000159261.10 | 1.633556351  | NA        | background | background | 4        |          |          |          |
| ENSG00000159596.6  | -1.280819163 | background | background | background |          |          |          |          |
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| ENSG00000160182.2  | -2.070001197 | NA        | background | background | 5        |          |          |          |
| ENSG00000160200.17 | -1.027194648 | 5         | background | background | 5        |          |          |          |
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| ENSG00000161647.18 | -3.091323869 | background | background | background | 5 |
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| ENSG00000162009.8  | 1.376684218 | NA         | background | background | 5 |
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| ENSG00000162334.3  | 3.208518262 | background | background | background | 5 |
| ENSG00000162383.11 | 3.896282611 | background | background | background | 4 |
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| ENSG00000162600.11 | -1.12202289 | background | background | background | 5 |
| ENSG00000162615.8  | 1.645095542 | 5          | background | background | 5 |
| ENSG00000162620.15 | -1.211577382 | background | background | background | 4 |
| ENSG00000162676.11 | 1.84499892 | background | background | background | background |
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| ENSG00000162873.14 | 5.818711788 | background | background | background | 5 |
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| ENSG00000163220.10 | 6.594395378 | NA         | background | background | 5 |
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| ENSG00000163501.6  | 2.852976784 | background | NA         | background | background |
| 194 | ENSG00000163507.13 | -1.031638535 | background | background | background | 4 |
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| 194 | ENSG00000163558.12 | -1.106221156 | background | background | background | 5 |
| 194 | ENSG00000163581.13 | 1.048416581  | background | background | background | 4 |
| 194 | ENSG00000163584.17 | -1.23032508  | background | background | background | 5 |
| 194 | ENSG00000163644.14 | 1.145428531  | background | background | background | 5 |
| 194 | ENSG00000163694.14 | 1.484822188  | background | background | background | 5 |
| 194 | ENSG00000163792.6 | 2.050082607  | background | background | background | 5 |
| 194 | ENSG00000163794.6 | 1.096075781  | NA         | background | background | 5 |
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| 194 | ENSG00000163808.16 | -1.79896307  | 5          | background | background | 4 |
| 194 | ENSG00000163864.15 | -1.114451672 | background | background | background | 5 |
| 194 | ENSG00000163879.10 | 1.787120411  | background | background | background | 5 |
| 194 | ENSG00000163918.10 | -1.345200356 | background | background | background | 5 |
| 194 | ENSG00000164007.10 | 3.634133522  | background | background | background | 4 |
| 194 | ENSG00000164087.7 | -1.163024127 | background | background | background | 5 |
| 194 | ENSG00000164104.11 | -1.012647418 | background | background | background | 5 |
| 194 | ENSG00000164109.13 | -1.430913271 | background | background | background | 5 |
| 194 | ENSG00000164167.10 | -1.201461415 | background | background | background | 5 |
| 194 | ENSG00000164188.8 | 2.682820242  | background | background | background | 5 |
| 194 | ENSG00000164199.16 | 2.16024006   | background | background | background | 4 |
| 194 | ENSG00000164251.4 | -2.135010363 | NA         | background | background | 5 |
| 194 | ENSG00000164331.9 | 1.336961609  | background | background | background | 5 |
| 194 | ENSG00000164344.15 | 3.10874492   | background | background | background | 5 |
| 194 | ENSG00000164362.18 | -1.590784202 | background | background | background | 5 |
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| 194 | ENSG00000164398.12 | 1.281107787  | background | background | background | 5 |
| 194 | ENSG00000164406.7 | 1.723245559  | background | background | background | 5 |
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| 194 | ENSG00000164484.11 | 2.500812832  | background | background | background | 4 |
| 194 | ENSG00000164512.17 | -1.025147868 | background | background | background | 5 |
| 194 | ENSG00000164548.10 | -1.202875171 | background | background | background | 5 |
| 194 | ENSG00000164574.15 | -1.043332413 | background | background | background | 4 |
| 194 | ENSG00000164611.12 | -1.047810628 | background | background | background | 4 |
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| 194 | ENSG00000164674.15 | 2.58739678   | background | background | background | 4 |
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| ENSG00000165376.10 | 1.139876221      | NA     | background | background | 5     |
| ENSG00000165449.11 | 5.381229811      | 5       | background | background | 5     |
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| ENSG00000165757.8  | -2.166465557     | 5       | background | background | 4     |
| ENSG00000165861.13 | 1.084682365      | 5       | background | background | 5     |
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| ENSG00000165959.11 | 1.140336553      | background | background | background | 5     |
| ENSG00000165995.18 | 1.902557129      | background | background | background | 4     |
| ENSG00000166086.12 | -1.0323525       | background | background | background | 5     |
| ENSG00000166349.9  | 3.534103663      | NA     | background | background | 5     |
| ENSG00000166391.14 | 1.134856074      | background | background | background | 5     |
| ENSG00000166415.14 | 1.687718513      | 5       | background | background | 4     |
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| ENSG00000166986.14 | -1.337514305     | background | background | background | 4     |
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| ENSG00000167552.13  | -2.694717158 | background | background | background | -2.694717158 | background | background | background |
| ENSG00000167553.15  | -1.156167142 | background | background | background | -1.156167142 | background | background | background |
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| ENSG00000167619.11  | -1.021860474 | background | background | background | -1.021860474 | background | background | background |
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| ENSG00000167815.11  | -1.207965458 | background | background | background | -1.207965458 | background | background | background |
| ENSG00000167861.15  | 1.730351679  | background | background | background | 1.730351679  | background | background | background |
| ENSG00000167900.11  | -1.130648932 | background | background | background | -1.130648932 | background | background | background |
| ENSG00000167910.3   | 3.042944653  | background | background | background | 3.042944653  | background | background | background |
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| ENSG00000168016.13  | 2.040167016  | 5         | background | background | 2.040167016  | 5         | background | background |
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| ENSG00000168077.13  | 1.154150946  | NA         | background | background | 1.154150946  | NA         | background | background |
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| ENSG00000168135.4   | 3.480024088  | NA         | background | background | 3.480024088  | NA         | background | background |
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| ENSG00000168461.12  | 2.165220153  | background | background | background | 2.165220153  | background | background | background |
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| ENSG00000168509.19  | 5.149530232  | background | background | background | 5.149530232  | background | background | background |
| ENSG00000168542.14  | -3.101632614 | background | background | background | -3.101632614 | background | background | background |
| ENSG00000168621.14  | 1.64115926   | NA         | background | background | 1.64115926   | NA         | background | background |
| ENSG00000168679.17  | -1.080036745 | background | background | background | -1.080036745 | background | background | background |
| ENSG00000168743.12  | 1.236096134  | background | background | background | 1.236096134  | background | background | background |
| ENSG00000168785.7   | -2.221189562 | NA         | background | background | -2.221189562 | NA         | background | background |
| ENSG00000168907.13  | 3.333056321  | 5         | background | background | 3.333056321  | 5         | background | background |
| ENSG00000168916.15  | -1.572293523 | background | background | background | -1.572293523 | background | background | background |
| ENSG00000168918.13  | 1.360169136  | background | background | background | 1.360169136  | background | background | background |
| ENSG00000168944.15  | -1.067893787 | background | background | background | -1.067893787 | background | background | background |
| ENSG00000169118.17  | 1.128014168  | background | background | background | 1.128014168  | background | background | background |
| ENSG00000169174.10  | -1.379659345 | background | background | background | -1.379659345 | background | background | background |
| Gene ID          | Value | Description | Annotation | Score |
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| ENSG00000169379.15 | -1.101701982 | background | background | 4     |
| ENSG00000169550.12 | -1.152262327 | NA         | background | 5     |
| ENSG00000169607.12 | -1.058124181 | background | background | 5     |
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| ENSG00000169679.14 | -1.287341653 | 3          | background | 3     |
| ENSG00000169750.8  | -1.05154705  | background | background | 5     |
| ENSG00000169896.16 | 4.84977212  | background | background | 5     |
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| ENSG00000171236.9  | 1.568065956  | NA         | background | 5     |
| ENSG00000171241.8  | -1.123185954 | background | background | 3     |
| ENSG00000171320.14 | -1.448314967 | background | background | 5     |
| ENSG00000171345.13 | -2.536371997 | NA         | background | 5     |
| ENSG00000171345.13 | -2.536371997 | background | background | 5     |
| ENSG00000171346.15 | -1.616379099 | background | background | 5     |
| ENSG00000171444.17 | 1.377900522  | 5          | background | 3     |
| ENSG00000171540.7  | 3.815677123  | background | background | 5     |
| ENSG00000171631.14 | 2.547921247  | background | background | 5     |
| ENSG00000171680.21 | -1.464500489 | background | background | 5     |
| ENSG00000171840.11 | 2.38445277  | background | background | 4     |
| Gene ID   | Start Position | Expression Value | Background Count | Background Count |
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| ENSG00000171848.14 | 194 | -1.427719972 | background | background |
| ENSG00000171877.20 | 194 | -2.251415181 | background | background |
| ENSG00000171903.16 | 194 | 1.145912235 | background | background |
| ENSG00000171931.12 | 194 | 2.542433219 | background | background |
| ENSG00000171960.10 | 194 | -1.011815548 | background | background |
| ENSG00000172167.7 | 194 | -1.19832511 | background | background |
| ENSG00000172201.11 | 194 | -2.063484251 | background | background |
| ENSG00000172296.12 | 194 | 1.390724231 | background | background |
| ENSG00000172379.20 | 194 | 1.968406239 | background | background |
| ENSG00000172478.17 | 194 | 1.894085141 | background | background |
| ENSG00000172602.9 | 194 | 1.38556173 | background | background |
| ENSG00000172661.17 | 194 | 1.107308373 | background | background |
| ENSG00000172733.11 | 194 | 3.651883212 | NA | background |
| ENSG00000172738.11 | 194 | 2.625741945 | background | background |
| ENSG00000172831.11 | 194 | 1.455868915 | background | background |
| ENSG00000172943.19 | 194 | 1.147914985 | background | background |
| ENSG00000173080.5 | 194 | 1.448448726 | NA | background |
| ENSG00000173230.11 | 194 | 1.721217748 | 5 | background |
| ENSG00000173531.15 | 194 | 1.076115648 | background | background |
| ENSG00000173546.7 | 194 | 2.382788279 | background | background |
| ENSG00000173597.8 | 194 | 1.87209769 | background | background |
| ENSG00000173611.17 | 194 | -1.058492037 | background | background |
| ENSG00000173714.7 | 194 | 2.48152684 | NA | background |
| ENSG00000173805.15 | 194 | -2.664189377 | background | background |
| ENSG00000173894.10 | 194 | -1.24506681 | background | background |
| ENSG00000174136.11 | 194 | -1.059621928 | 5 | background |
| ENSG00000174236.3 | 194 | 2.917238695 | NA | background |
| ENSG00000174371.16 | 194 | -1.174995932 | background | background |
| ENSG00000174498.13 | 194 | -1.311688841 | background | background |
| ENSG00000174501.14 | 194 | -1.014854344 | background | background |
| ENSG00000174516.14 | 194 | -1.169779612 | background | background |
| ENSG00000174599.5 | 194 | 6.316133353 | background | background |
| ENSG00000174697.4 | 194 | 6.316133353 | background | background |
| ENSG00000174721.9 | 194 | -1.105397147 | NA | background |
| ENSG00000174791.10 | 194 | -1.423462904 | background | background |
| ENSG00000174827.13 | 194 | 1.144921959 | background | background |
| ENSG00000174898.15 | 194 | 5.419822958 | 5 | background |
| ENSG00000174945.13 | 194 | 2.439139147 | background | background |
| ENSG00000174951.10 | 194 | 1.41433172 | background | background |
| ENSG00000174992.7 | 194 | 2.185851503 | background | background |
| Chrom | Transcript   | Expression | Feature | Feature | Feature |
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| 194   | ENSG00000175063.16 | -1.548773125 | 5       | background | background |
| 194   | ENSG00000175189.9 | 1.489052749 | NA      | background | background |
| 194   | ENSG00000175322.11 | -1.202868277 | background | background | background |
| 194   | ENSG00000175329.12 | 1.491734225 | background | background | background |
| 194   | ENSG00000175336.9 | 2.076014955 | 4       | background | background |
| 194   | ENSG00000175352.10 | 3.246890273 | 5       | background | background |
| 194   | ENSG00000175463.11 | 1.2321583   | 4       | background | background |
| 194   | ENSG00000175489.9 | 2.404313138 | 5       | background | background |
| 194   | ENSG00000175505.10 | -2.011776836 | NA      | background | background |
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| 194   | ENSG00000175764.14 | 2.64181274  | 4       | background | background |
| 194   | ENSG00000175793.11 | -1.096474085 | NA      | background | background |
| 194   | ENSG00000175899.14 | 1.073021418 | 5       | background | background |
| 194   | ENSG00000175984.14 | 2.179183116 | background | background | background |
| 194   | ENSG00000176273.14 | -1.105099948 | background | background | background |
| 194   | ENSG00000176381.5 | 2.64181274  | 4       | background | background |
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| 194   | ENSG00000177103.13 | 3.179679661 | background | background | background |
| 194   | ENSG00000177311.11 | 1.212717468 | NA      | NA       | NA      |
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| 194   | ENSG00000177374.12 | 1.538825626 | 5       | background | background |
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| 194   | ENSG00000177669.3 | 1.480384959 | background | background | background |
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| 194   | ENSG00000177873.12 | -1.53354906 | 5       | background | background |
| 194   | ENSG00000177917.10 | -1.008401562 | background | background | background |
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| 194   | ENSG00000178297.12 | 1.137995427 | 5       | NA       | background |
| 194   | ENSG00000178531.5 | -2.302629341 | NA      | background | background |
| 194   | ENSG00000178562.17 | 3.599100226 | background | background | background |
| 194   | ENSG00000178573.6 | 2.591042905 | NA      | background | background |
| 194   | ENSG00000178597.6 | 1.859517047 | background | background | background |
| 194   | ENSG00000178605.13 | -1.034819816 | background | NA      | background |
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| 194   | ENSG00000178718.6 | -2.816963095 | NA      | background | background |
| 194 | ENSG000000178809.7 | 2.072288265 | NA | background | background | 5 |
| 194 | ENSG000000178828.6 | 5.595743362 | NA | background | background | 5 |
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| 194 | ENSG000000180155.19 | 1.215513395 | background | background | background | 4 |
| 194 | ENSG000000180245.4 | 5.488080636 | background | background | background | 4 |
| 194 | ENSG000000180263.13 | -1.089550015 | background | background | background | 4 |
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| 194 | ENSG000000180525.11 | 1.033018938 | background | background | background | 4 |
| 194 | ENSG000000180532.10 | 2.77783706 | background | background | background | 4 |
| 194 | ENSG000000180611.6 | -1.619553692 | NA | background | background | 4 |
| 194 | ENSG000000180638.17 | 2.698463589 | background | background | background | 4 |
| 194 | ENSG000000180767.9 | -1.129054691 | background | background | background | 4 |
| 194 | ENSG000000180822.11 | -1.131230554 | background | background | background | 4 |
| 194 | ENSG000000180998.11 | -2.011701139 | background | NA | background | 4 |
| 194 | ENSG000000181016.9 | 2.793174327 | NA | background | background | 4 |
| 194 | ENSG000000181035.13 | 1.717828089 | background | background | background | 4 |
| 194 | ENSG000000181220.15 | 1.03608702 | background | background | background | 4 |
| 194 | ENSG000000181284.2 | -1.171885299 | background | background | background | 4 |
| 194 | ENSG000000181450.17 | -1.002071799 | background | background | background | 4 |
| 194 | ENSG000000181588.16 | -1.154916472 | NA | background | background | 4 |
| 194 | ENSG000000181625.17 | -1.137621873 | background | background | background | 4 |
| 194 | ENSG000000181634.7 | 2.32932036 | background | background | background | 4 |
| 194 | ENSG000000181938.13 | -1.520961456 | NA | background | background | 4 |
| 194 | ENSG000000182010.10 | -1.423630627 | background | background | background | 4 |
| Gene ID | Expression Value | Background Value | Summarized Value | Count | Count | Count | Count |
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| ENSG00000182179.12 | 1.466662051 | S | background | background | 5 | 4 | 4 |
| ENSG00000182230.11 | 2.84922776 | background | background | 4 | 4 | 4 | 4 |
| ENSG00000182264.8 | 2.35145445 | background | background | 4 | 5 | 5 | 5 |
| ENSG00000182272.11 | -1.564773537 | background | NA | background | background | background | background |
| ENSG00000182326.14 | 1.53645498 | background | background | 5 | 5 | 5 | 5 |
| ENSG00000182459.4 | 4.054868563 | background | background | 5 | 5 | 5 | 5 |
| ENSG00000182481.8 | -1.037382642 | background | background | 4 | 4 | 4 | 4 |
| ENSG00000182508.4 | 3.539347462 | NA | background | background | 5 | 5 | 5 |
| ENSG00000182549.10 | 1.921071124 | background | background | 5 | 5 | 5 | 5 |
| ENSG00000182597.15 | 1.017168707 | background | background | 5 | 5 | 5 | 5 |
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| ENSG00000182747.11 | 3.452102728 | background | background | 4 | 4 | 4 | 4 |
| ENSG00000182776.8 | -1.196177844 | NA | 5 | background | 5 | 5 | 5 |
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| ENSG00000183145.8 | -1.738970662 | background | background | 5 | 5 | 5 | 5 |
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| ENSG00000183260.5 | -2.288249604 | NA | NA | background | background | background | background |
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| ENSG00000183489.86 | -1.123584711 | background | background | 4 | 4 | 4 | 4 |
| ENSG00000183492.13 | 1.340019115 | background | background | 5 | 5 | 5 | 5 |
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| ENSG00000183498.88 | 1.544517053 | background | background | 5 | 5 | 5 | 5 |
| ENSG00000183499.11 | 1.508743224 | background | background | 5 | 5 | 5 | 5 |
| 194 | ENSG00000185112.5 | -1.369560477 | NA | background | background | background |
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| 194 | ENSG00000185269.11 | -1.08795291 | background | background | background | 5          |
| 194 | ENSG00000185340.15 | 1.175593079 | background | background | background | background |
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| 194 | ENSG00000187068.2 | -1.045941636 | NA         | background | background | 5          |
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| 194 | ENSG00000187486.5 | -2.666623744 | NA         | background | background | background |
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| 194 | ENSG00000188112.8 | -1.304950531 | background | NA         | background | 4          |
| 194 | ENSG00000188257.10 | 1.042434948 | background | background | background | background |
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| ENSGO00000188818.12 | 1.008936229 | background | background | 5 | 4 |
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| ENSGO00000197044.10 | 1.161711843 | background | background | background | 5 |
| ENSGO00000197061.4 | -1.237399546 | NA | background | background | background |
| ENSGO00000197168.11 | 2.176433768 | background | background | background | 5 |
| ENSGO00000197181.11 | 2.385592781 | background | background | background | 4 |
| ENSGO00000197238.4 | -1.309852758 | NA | background | background | background |
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| ENSG00000198753.11    | 1.322509682          | background   | background | background | background | 5 |
| ENSG00000198826.10    | -1.405396689         | background   | background | background | background | 5 |
| ENSG00000198848.12    | 2.335542024          | background   | background | background | background | 5 |
| ENSG00000198860.11    | -1.685705384         | background   | background | background | background | 5 |
| ENSG00000198901.13    | -1.143662271         | background   | background | background | background | 5 |
| ENSG00000198910.12    | -2.38741071          | background   | background | background | background | 4 |
| ENSG00000198959.11    | 1.407414438          | background   | background | background | background | 4 |
| ENSG000000203727.3    | 2.582624158          | NA           | background | background | background | 4 |
| ENSG000000203760.8    | -1.043604451         | NA           | background | background | background | 5 |
| ENSG000000203778.7    | -1.251266424         | background   | background | background | background | 5 |
| ENSG000000203797.9    | 1.1093235            | background   | background | background | background | 4 |
| ENSG000000203985.10   | 1.665277361          | background   | background | background | background | 5 |
| Gene ID       | Value (log2 fold change) | Status | Parent ID | Gene ID       | Value (log2 fold change) | Status | Parent ID |
|--------------|---------------------------|--------|-----------|--------------|---------------------------|--------|-----------|
| ENSG00000204176.13 | 1.085120434 | background | background | ENSG00000204267.13 | -1.264693013 | background | background |
| ENSG00000204389.9 | 1.397744427 | NA | background | ENSG00000204390.9 | 1.57690974 | background | background |
| ENSG00000204396.10 | 1.146637539 | background | background | ENSG00000204444.10 | 1.074651065 | background | background |
| ENSG00000204922.4 | -1.17978955 | NA | background | ENSG00000205208.4 | -1.350689375 | background | background |
| ENSG00000204922.4 | -1.350689375 | background | background | ENSG00000205277.9 | 8.680798733 | background | background |
| ENSG00000204922.4 | -1.17978955 | NA | background | ENSG00000205517.12 | -1.056935127 | background | background |
| ENSG00000204922.4 | -1.17978955 | NA | background | ENSG00000205542.10 | -1.16721672 | background | background |
| ENSG00000204922.4 | -1.17978955 | NA | background | ENSG00000205923.3 | -4.381083143 | background | background |
| ENSG00000204922.4 | -1.17978955 | NA | background | ENSG00000212643.2 | 4.48042816 | background | background |
| ENSG00000204922.4 | -1.17978955 | NA | background | ENSG00000212724.3 | -3.424012963 | background | background |
| ENSG00000204922.4 | -1.17978955 | NA | background | ENSG00000212901.3 | -2.705562364 | background | background |
| ENSG00000204922.4 | -1.17978955 | NA | background | ENSG00000213420.7 | -2.382688003 | background | background |
| ENSG00000204922.4 | -1.17978955 | NA | background | ENSG00000213654.9 | 1.417247807 | background | background |
| ENSG00000204922.4 | -1.17978955 | NA | background | ENSG00000213694.3 | 3.339959336 | background | background |
| ENSG00000204922.4 | -1.17978955 | NA | background | ENSG00000213759.9 | 1.578500541 | background | background |
| ENSG00000204922.4 | -1.17978955 | NA | background | ENSG00000213865.7 | 1.221415796 | background | background |
| ENSG00000204922.4 | -1.17978955 | NA | background | ENSG00000213901.10 | 1.55587002 | background | background |
| ENSG00000204922.4 | -1.17978955 | NA | background | ENSG00000213988.10 | -1.469689715 | background | background |
| ENSG00000204922.4 | -1.17978955 | NA | background | ENSG00000214063.10 | -1.006529465 | background | background |
| ENSG00000204922.4 | -1.17978955 | NA | background | ENSG00000214140.10 | 2.255642898 | background | background |
| ENSG00000204922.4 | -1.17978955 | NA | background | ENSG00000214274.9 | 1.2901236 | background | background |
| ENSG00000204922.4 | -1.17978955 | NA | background | ENSG00000214376.5 | 3.487823929 | background | background |
| ENSG00000204922.4 | -1.17978955 | NA | background | ENSG00000214456.8 | 2.127095854 | background | background |
| ENSG00000204922.4 | -1.17978955 | NA | background | ENSG00000214655.10 | 1.80362953 | background | background |
| ENSG00000204922.4 | -1.17978955 | NA | background | ENSG00000215784.5 | -1.435763029 | background | background |
| ENSG00000204922.4 | -1.17978955 | NA | background | ENSG00000215788.9 | -1.279582104 | background | background |
| ENSG00000204922.4 | -1.17978955 | NA | background | ENSG00000218819.4 | 1.118702238 | background | background |
| ENSG00000204922.4 | -1.17978955 | NA | background | ENSG00000220205.8 | 1.168118583 | background | background |
| ENSG00000204922.4 | -1.17978955 | NA | background | ENSG00000221995.5 | 1.824551701 | background | background |
| ENSG00000204922.4 | -1.17978955 | NA | background | ENSG00000222609.8 | 1.312368874 | background | background |
| ENSG00000204922.4 | -1.17978955 | NA | background | ENSG00000223401.2 | 1.476437286 | background | background |
| ENSG00000204922.4 | -1.17978955 | NA | background | ENSG00000223547.9 | 1.527708756 | background | background |
| ENSG00000204922.4 | -1.17978955 | NA | background | ENSG00000223573.6 | 3.146997808 | background | background |
| ENSG00000204922.4 | -1.17978955 | NA | background | ENSG00000224916.9 | 1.231712175 | background | background |
| ENSG00000204922.4 | -1.17978955 | NA | background | ENSG00000225587.3 | 2.380898715 | background | background |
| ENSG00000204922.4 | -1.17978955 | NA | background | ENSG00000226733.2 | 2.993946977 | background | background |
| ENSG00000204922.4 | -1.17978955 | NA | background | ENSG00000227471.8 | 2.749530304 | background | background |
| Gene ID | Value     | Log2 Fold Change | Expression Level | Background | Rank |
|---------|-----------|------------------|------------------|------------|------|
| ENSG00000228594.3 | -1.031630779 | NA               | background       | 5          | 5    |
| ENSG00000229183.8  | 2.977351853  | background       | background       | 5          |      |
| ENSG00000231887.6  | 2.031141372  | background       | background       | 5          |      |
| ENSG00000233822.4  | 1.815799572  | NA               | background       | 4          |      |
| ENSG00000235109.7  | 1.047383881  | 5                | background       | 4          |      |
| ENSG00000235162.8  | -1.375645047 | background       | background       | 5          |      |
| ENSG00000235961.5  | 1.888590412  | NA               | background       | 5          |      |
| ENSG00000237289.9  | -3.113534506 | background       | background       | 5          |      |
| ENSG00000237649.7  | -1.596288709 | background       | background       | 5          |      |
| ENSG00000239305.6  | 1.133595378  | background       | background       | 5          |      |
| ENSG00000240972.1  | -1.117890678 | background       | background       | 5          |      |
| ENSG00000241322.4  | 4.11249095   | background       | NA               | 5          |      |
| ENSG00000241484.9  | 2.221949112  | background       | background       | 4          |      |
| ENSG00000241635.7  | 3.979976046  | background       | background       | 5          |      |
| ENSG00000241839.9  | -1.571321231 | NA               | background       | 5          |      |
| ENSG00000242110.7  | 1.29537722   | background       | background       | 5          |      |
| ENSG00000242802.6  | 1.074715636  | background       | background       | 4          |      |
| ENSG00000243135.6  | 5.70595393   | background       | background       | 5          |      |
| ENSG00000243207.6  | -1.08640431  | background       | NA               | 5          |      |
| ENSG00000243708.10 | -2.252588544 | background       | background       | 5          |      |
| ENSG00000243910.7  | 1.915396574  | background       | background       | 5          |      |
| ENSG00000243955.5  | 1.065469957  | background       | background       | 4          |      |
| ENSG00000244067.2  | 2.859737601  | background       | background       | 5          |      |
| ENSG00000244274.7  | -1.031796692 | NA               | background       | 5          |      |
| ENSG00000244474.5  | 5.323654187  | background       | background       | 5          |      |
| ENSG00000246922.8  | 2.996422979  | NA               | background       | 5          |      |
| ENSG00000248485.1  | 4.700203641  | background       | background       | 5          |      |
| ENSG00000248905.8  | -1.575776893 | NA               | 5              | 4          |      |
| ENSG00000249242.7  | 2.046102006  | background       | background       | 5          |      |
| ENSG00000250067.11 | 1.674906388  | background       | background       | 4          |      |
| ENSG00000250264.1  | 1.734144973  | background       | NA              | 4          |      |
| ENSG00000250644.3  | 1.578955492  | background       | background       | 5          |      |
| ENSG00000251503.8  | -1.926738572 | background       | background       | 5          |      |
| ENSG00000251569.1  | 3.297927643  | background       | background       | 5          |      |
| ENSG00000253313.5  | 1.593856065  | NA               | background       | 5          |      |
| ENSG00000253598.1  | 2.385664468  | NA               | background       | 5          |      |
| ENSG00000253729.7  | -1.079290195 | 5                | background       | 5          |      |
| ENSG00000254726.2  | -1.395739099 | NA               | background       | 5          |      |
| ENSG00000254827.5  | 1.580241251  | NA               | background       | 5          |      |
| ENSG00000254996.5  | -1.04795556  | background       | background       | 5          |      |
| ENSG00000255071.3  | 2.101886318  | background       | background       | 4          |      |
| Code          | Value         | Feature 1 | Feature 2 | Feature 3 | Feature 4 |
|--------------|---------------|-----------|-----------|-----------|-----------|
| ENSG00000255561.6 | -1.289002902  | background | background | background | 5         |
| ENSG00000256162.2  | 1.539090025   | NA        | background | background | background |
| ENSG00000256229.7 | -1.059595014  | background | background | background | 5         |
| ENSG00000257315.2 | 1.30716707    | background | background | background | 5         |
| ENSG00000257446.3 | -1.365815968  | background | background | NA        | background |
| ENSG00000258472.8 | -1.175433546  | NA        | background | background | 4         |
| ENSG00000258674.5 | 1.509586883   | background | background | background | 4         |
| ENSG00000258947.6 | -1.47820842   | background | background | background | background |
| ENSG00000267041.5 | -1.786279827  | background | background | background | 4         |
| ENSG00000267534.2 | 1.726820936   | NA        | background | 5         | 4         |
| ENSG00000270136.5 | -3.691940971  | background | background | background | 5         |
| ENSG00000270299.1 | 2.21707589    | NA        | background | background | 5         |
| ENSG00000273155.1 | 2.215865159   | NA        | background | background | 5         |
| ENSG00000274276.4 | -1.297523641  | 5         | background | background | 5         |
| ENSG00000274386.5 | 2.634377915   | background | background | background | 5         |
| ENSG00000275152.4 | 2.295451962   | background | background | background | background |
| ENSG00000275183.1 | -1.130311047  | NA        | background | background | background |
| ENSG00000275395.5 | 1.12545025    | background | NA        | NA        | 5         |
| ENSG00000275832.4 | 2.52180388    | background | background | background | 5         |
| ENSG00000276043.4 | -1.661474043  | background | background | background | 5         |
| ENSG00000276076.4 | -2.336366621  | NA        | background | background | background |
| ENSG00000277363.4 | 2.412613634   | background | background | background | 5         |
| ENSG00000277481.1 | 4.574653462   | background | NA        | NA        | 4         |
| ENSG00000277639.2 | 2.592645949   | background | background | background | 5         |
| ENSG00000278535.4 | -1.111174009  | background | background | background | 5         |
| ENSG00000278619.4 | -1.167163276  | background | background | background | 5         |
| ENSG00000279493.1 | 1.272947361   | background | NA        | background | 4         |
| ENSG00000279968.2 | -1.886957756  | background | NA        | NA        | 4         |
| ENSG00000280433.1 | -4.668102125  | background | NA        | background | background |
| ENSG00000280987.4 | -1.066688616  | 4         | background | background | 4         |
| ENSG00000281028.1 | 7.697348903   | background | background | background | 5         |
| Gene ID          | Log2 Fold Change | Strain     | Sample 1 | Sample 2 | Sample 3 | Sample 4 | Sample 5 |
|-----------------|------------------|------------|----------|----------|----------|----------|----------|
| ENSG00000281991.1 | -6.552279691     | NA         | background | background | background | 5        |
| ENSG00000283247.1 | 2.242764635      | NA         | background | background | background | 5        |
| ENSG00000284461.1 | 1.584259555      | background | background | background | background | 5        |
| ENSG00000284526.1 | 1.669003936      | NA         | background | background | background | 5        |
| ENSG00000284713.1 | 4.596023356      | NA         | background | background | background | 5        |
| ENSG00000005884.17| 1.018813225      | background | background | background | background | 5        |
| ENSG00000006747.14| 2.142127548      | background | background | background | background | 5        |
| ENSG00000012124.16| 1.703998391      | background | background | background | background | 5        |
| ENSG00000013588.7 | 1.070277408      | background | background | background | background | 4        |
| ENSG00000026025.15| -3.408595403     | background | background | background | background | 5        |
| ENSG00000052344.15| -1.915784273     | background | background | background | background | 5        |
| ENSG00000064300.8 | 1.092427179      | background | background | background | background | 5        |
| ENSG00000065911.11| -1.533417008     | background | background | background | background | 2        |
| ENSG00000070669.16| -2.280171745     | background | background | background | background | 5        |
| ENSG00000071575.11| -1.091529374     | background | background | background | background | 5        |
| ENSG00000075213.10| 1.454009158      | background | background | background | background | 5        |
| ENSG00000076641.4 | -2.135313603     | background | background | background | background | 5        |
| ENSG00000078401.6 | 1.354895617      | background | background | background | background | 5        |
| ENSG00000088387.18| 1.270278482      | background | background | background | background | 4        |
| ENSG00000092621.12| -1.608910379     | background | background | background | background | 5        |
| ENSG00000095752.6 | 1.188669968      | background | background | background | background | 5        |
| ENSG00000100628.11| 1.02222322       | background | background | background | background | 5        |
| ENSG00000100889.11| -1.191818117     | background | background | background | background | 4        |
| ENSG00000101188.4 | 1.960390902      | background | background | background | background | 4        |
| ENSG00000101638.13| 3.003892578      | background | background | background | background | 4        |
| ENSG00000102780.16| -3.28802399      | background | background | background | background | 4        |
| ENSG00000103522.15| -1.117593529     | background | background | background | background | 4        |
| ENSG00000103647.12| 1.474767603      | background | background | background | background | 3        |
| ENSG00000106105.13| -1.019378394     | background | background | background | background | 5        |
| ENSG00000106483.11| -1.085611608     | background | background | background | background | 3        |
| ENSG00000106991.13| 1.021383344      | background | background | background | background | 5        |
| ENSG00000107147.12| 4.338258139      | background | background | background | background | 5        |
| ENSG00000107738.19| 1.706164764      | background | background | background | background | 5        |
| ENSG00000108417.3 | 2.935124741      | background | NA        | background | background | 5        |
| ENSG00000110619.17| -1.009636979     | background | background | background | background | 4        |
| ENSG00000111252.10| -1.095772737     | background | background | background | background | 4        |
| ENSG00000111860.13| 1.134794151      | background | background | background | background | 4        |
| ENSG00000112936.18| -1.405510551     | background | background | background | background | 4        |
| ENSG00000113739.10| -1.016369205     | background | background | background | background | 5        |
| ENSG00000114450.9 | -2.065798412     | background | background | background | background | 5        |
| ENSG00000115295.19| 1.946964973      | background | background | background | background | 5        |
| Gene ID                  | Log2 Ratio | Background 1 | Background 2 | Background 3 | Background 4 | Background 5 |
|-------------------------|------------|---------------|---------------|---------------|---------------|---------------|
| ENSG00000115461.4       | 4.34478038 | background    | background    | background    | background    | 5             |
| ENSG00000116678.19      | 1.042749245| background    | background    | background    | background    | 5             |
| ENSG00000116761.11      | -1.66582633| background    | background    | background    | background    | 4             |
| ENSG00000119714.10      | 2.316625952| NA            | background    | background    | background    | 5             |
| ENSG00000119737.5       | 1.095598462| NA            | background    | background    | background    | 5             |
| ENSG00000119943.12      | 2.129227375| background    | background    | background    | background    | 4             |
| ENSG00000121211.7       | -1.220611453| background   | background    | background    | background    | 4             |
| ENSG00000122133.16      | 1.385613067| background    | background    | background    | background    | 5             |
| ENSG00000122861.15      | 1.083302641| background    | background    | background    | background    | 4             |
| ENSG00000123171.6       | 2.09605477 | NA            | background    | background    | background    | 4             |
| ENSG00000124766.6       | 1.404453226| NA            | 4             | 4             | 4             | 4             |
| ENSG00000124882.3       | 1.178459766| background    | background    | background    | background    | 4             |
| ENSG00000127578.6       | -1.058657995| NA            | background    | background    | background    | 4             |
| ENSG00000128165.8       | -1.67271567 | background    | background    | background    | background    | 5             |
| ENSG00000128272.14      | -1.04145587 | NA            | background    | background    | background    | 5             |
| ENSG00000128342.4       | 1.021817594| background    | background    | background    | background    | 5             |
| ENSG00000128510.10      | 2.28233682 | background    | background    | background    | background    | 5             |
| ENSG00000128564.6       | 1.001489922| NA            | background    | background    | background    | 4             |
| ENSG00000128567.16      | 1.295266995| background    | background    | background    | background    | 4             |
| ENSG00000128645.14      | -1.31190424 | NA            | background    | background    | background    | 4             |
| ENSG00000130518.16      | 2.03469514 | background    | background    | background    | background    | 5             |
| ENSG00000130592.15      | 1.551205327| background    | background    | background    | background    | 5             |
| ENSG00000130812.10      | -1.734714129| background    | background    | background    | background    | 5             |
| ENSG00000131016.16      | 1.232284617| 5            | background    | background    | background    | 4             |
| ENSG00000131482.9       | -1.528798569| background    | background    | background    | background    | 4             |
| ENSG00000131746.12      | 1.576985395| background    | background    | background    | background    | 4             |
| ENSG00000132016.11      | -2.066171581| background    | background    | background    | background    | 5             |
| ENSG00000132744.7       | -1.11280521 | background    | background    | background    | background    | 5             |
| ENSG00000132932.16      | 3.024558031| background    | background    | background    | background    | 3             |
| ENSG00000133665.12      | -1.08160079 | NA            | background    | background    | background    | 5             |
| ENSG00000133985.2       | 1.769768243| NA            | background    | background    | background    | 4             |
| ENSG00000134668.12      | 2.136205139| background    | background    | background    | background    | 5             |
| ENSG00000134954.14      | 1.483939359| background    | background    | background    | background    | 4             |
| ENSG00000135069.13      | -1.22724023 | background    | background    | background    | background    | 5             |
| ENSG00000135439.11      | 1.968159193| background    | background    | background    | background    | 3             |
| ENSG00000135549.10      | 1.067790604| NA            | background    | background    | background    | 3             |
| ENSG00000135638.13      | -1.288486161| background    | background    | background    | background    | 4             |
| ENSG00000135919.12      | 1.118978468| background    | background    | background    | background    | 4             |
| ENSG00000136010.13      | -1.291756703| background    | background    | background    | background    | 3             |
| ENSG00000136286.14      | -1.549053803| background    | background    | background    | background    | 4             |
| ENSG00000136383.6       | 3.256926602 | 4            | background    | background    | background    | 4             |
| Gene ID          | Value       | Background | Background | Background |   |
|-----------------|-------------|------------|------------|------------|---|
| ENSG00000136689.18 | -1.221739836 | background | background | background | 3 |
| ENSG00000137460.8 | 1.696215264  | background | background | background | 5 |
| ENSG00000137563.11 | -1.093052678 | background | background | background | 5 |
| ENSG00000137752.23 | -1.618183563 | background | background | background | 5 |
| ENSG00000138119.16 | 1.584956911  | background | NA         | background | 3 |
| ENSG00000138166.5 | 1.373005521  | background | background | background | 5 |
| ENSG00000139269.2 | -2.59769339  | NA         | background | background | 4 |
| ENSG00000139278.9 | 1.316218887  | background | background | background | 5 |
| ENSG00000140044.12 | -2.34531946 | background | background | background | 3 |
| ENSG00000140297.12 | 1.125939638  | background | background | background | 5 |
| ENSG00000142227.10 | 1.21288681   | background | background | background | 5 |
| ENSG00000142871.16 | 1.079209651  | background | background | background | 5 |
| ENSG00000143248.12 | 1.286331645 | background | background | background | 5 |
| ENSG00000143369.14 | 1.076140506  | background | background | background | 5 |
| ENSG00000143632.14 | 1.863979892  | background | background | background | 5 |
| ENSG00000143816.7 | 3.861614408  | background | background | background | 4 |
| ENSG00000144130.11 | -2.813167309 | background | background | background | 5 |
| ENSG00000144285.18 | -1.148577826 | background | background | background | 5 |
| ENSG00000144730.17 | 1.974205119  | background | background | background | 4 |
| ENSG00000144834.13 | 1.505085261  | background | background | background | 5 |
| ENSG00000145020.15 | -1.080112406 | background | background | background | 5 |
| ENSG00000145555.14 | -1.039602682 | background | background | background | 4 |
| ENSG00000146592.16 | 1.605171475  | background | background | background | 5 |
| ENSG00000146678.9 | -1.050343576 | background | background | background | 5 |
| ENSG00000147174.11 | 1.663810157  | background | background | background | 5 |
| ENSG00000147852.15 | -1.644692884 | background | background | background | 4 |
| ENSG00000147883.10 | 1.243332986  | NA         | background | background | 5 |
| ENSG00000148677.6 | 1.080014946  | NA         | background | background | 5 |
| ENSG00000149564.11 | 1.235030651  | background | background | background | 5 |
| ENSG00000149591.16 | 1.28049603   | background | background | background | 5 |
| ENSG00000149781.12 | 3.44788206   | background | background | background | 5 |
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| ENSG00000157514.16 | -1.746035634 | background | background | background | 5 |
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| Ensembl Gene ID | Value   | Background 1 | Background 2 | Background 3 | Background 4 | Background 5 |
|----------------|---------|--------------|--------------|--------------|--------------|--------------|
| ENSG00000159899.14 | 1.115675111 | background | background | 5 | 5 |
| ENSG00000160200.17 | -1.117784204 | 5 | background | background | 5 |
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| ENSG00000162975.4 | 2.66598323 | NA | background | background | background |
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| ENSG00000163328.13 | 1.791224561 | 5 | background | background | 5 |
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| ENSG00000165194.15 | 2.34908002 | background | NA | background | 4 |
| ENSG00000165197.4 | 2.364502663 | background | background | background | 4 |
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| ENSG00000167600.13 | 1.063083961 | background | background | 5 |
| ENSG00000167619.11 | -1.00891636 | background | background | 4 | 4 |
| ENSG00000167755.14 | 1.477394916 | background | background | background | 5 |
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| ENSG00000171877.20 | 1.092497153 | background | background | background | 4 |
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| ENSG00000172927.3 | 1.992969793 | background | background | background | 4 |
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| ENSG00000174502.18 | 1.632918658 | background | background | background | 5 |
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| ENSG00000175003.12 | 1.59820739 | background | background | background | 4 |
| ENSG00000175505.10 | 1.061356667 | background | background | 5 | 5 |
| ENSG00000175906.4 | -1.000514795 | NA | background | background | background |
| ENSG00000176046.8 | -1.053397046 | NA | background | background | background |
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| ENSG00000178149.16 | -1.133879015 | background | background | 5 |
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| ENSG00000179698.13 | 1.199010404 | background | background | background |
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| ENSG00000181016.9 | 1.873319846 | background | background | 5 |
| ENSG00000182752.9 | 2.929339581 | background | background | 3 |
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| ENSG00000184492.6 | 2.706003571 | NA | background | background |
| ENSG00000184545.10 | 1.063816727 | background | background | background |
| ENSG00000184678.10 | 1.695159155 | NA | background | background |
| ENSG00000184898.6 | -1.170466922 | background | background | 5 |
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| ENSG00000184985.16 | -1.70193112 | background | background | 4 |
| ENSG00000187045.16 | -1.627674222 | background | background | 5 |
| ENSG00000187742.14 | -1.301654043 | background | background | 5 |
| ENSG00000187837.3 | 1.243549598 | NA | NA | background |
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| 195 | ENSG00000231274.5 | 1.516969104 | NA | background | background | background |
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| 195 | ENSG00000250264.1 | 1.997676308 | NA | background | background | background |
| 195 | ENSG00000250722.5 | -1.335213871 | background | background | background | background |
| 195 | ENSG00000251569.1 | 2.453714669 | background | background | background | background |
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| ENSG00000182752.9  | 2.677402148 | background | background | background | 3    |
| ENSG00000185332.6  | 2.659538789 | background | background | background | 5    |
| ENSG00000198156.10 | -4.707963637 | background | background | background | 5    |
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| ENSG00000255974.7  | 5.612374497 | background | background | background | 5    |
| ENSG00000273047.1  | 1.015046399 | NA    | NA    | NA    | background |
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| ENSG00000003436.15 | -1.053690009 | NA    | background | 5    | 4    |
| ENSG00000004776.12 | 3.60191685  | background | background | background | 3    |
| ENSG00000004777.18 | 2.312034744 | 5    | background | 5    | 4    |
| ENSG00000004799.7  | -1.114682031 | background | 5    | background | 5    |
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| ENSG00000006016.10 | 2.43079529  | 5    | background | 5    | 3    |
| ENSG00000006025.11 | 2.058537694 | 5    | 5    | 4    | 3    |
| ENSG00000006118.14 | 2.828591587 | 5    | background | 3    | 3    |
| ENSG00000006210.6  | 1.50932325  | 5    | 5    | 4    | 3    |
| ENSG00000006432.15 | 1.034840238 | background | background | 5    | 4    |
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| ENSG00000006652.13 | 1.08132343  | 5    | 5    | background | 4    |
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| ENSG00000006747.14 | 3.623453012 | background | 4    | 4    | 4    |
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| ENSG00000007314.12 | 5.178205662 | 5    | background | 4    | 3    |
| ENSG00000007384.15 | 1.036859179 | 5    | 5    | background | 4    |
| ENSG00000007402.11 | 2.819791255 | 4    | NA    | 5    | 2    |
| ENSG00000007944.14 | 1.482079409 | background | background | 4    | 4    |
| ENSG00000008300.16 | 3.052129313 | 4    | background | 5    | 4    |
| ENSG00000008516.16 | 2.864118019 | 5    | 5    | 5    | 4    |
| ENSG00000008517.16 | 1.430049731 | background | 5    | 4    | 4    |
| ENSG00000008735.13 | 2.80556918  | background | background | 4    | 3    |
| ENSG00000008853.16 | 1.244075942 | 4    | 5    | 5    | 3    |
| ENSG00000010379.15 | -1.70721413 | 5    | background | 5    | 4    |
| ENSG00000010810.17 | 1.771934435 | background | background | 3    | 3    |
| ENSG00000010932.16 | 1.080286088 | 5    | background | 3    | 3    |
| ENSG00000011028.13 | 4.240412918 | 4    | 5    | 4    | 4    |
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| ENSG000000012779 | 1.551839122 | **background** | 2     |
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| ENSG000000015568 | 1.078214825 | **background** | 4     |
| ENSG000000017427 | -2.524999829 | **background** | 4     |
| ENSG000000018625 | 4.076949883 | **background** | 4     |
| ENSG000000019102 | 4.048266771 | **background** | 5     |
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| ENSG000000019505 | 2.813728318 | **background** | 4     |
| ENSG000000019582 | 1.771463061 | **background** | 4     |
| ENSG000000021852 | -2.792945649 | **background** | 4     |
| ENSG000000022556 | 1.734632723 | **background** | 4     |
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| ENSG000000026025 | 1.581316426 | **background** | 4     |
| ENSG000000026508 | 1.300830994 | **background** | 3     |
| ENSG000000026751 | 4.040390177 | **background** | 4     |
| ENSG000000028137 | -1.436688623 | **background** | 3     |
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| ENSG000000029363 | 1.28894322 | **background** | 5     |
| ENSG000000032742 | -1.147238645 | **background** | 4     |
| ENSG000000034533 | -1.050322183 | **background** | 4     |
| ENSG000000034693 | -1.753890869 | **background** | 5     |
| ENSG000000035499 | 1.595685329 | **background** | 4     |
| ENSG000000035862 | 1.371970737 | **background** | 3     |
| ENSG000000038427 | 1.94268341 | **background** | 5     |
| ENSG000000039123 | -1.134725698 | **background** | 4     |
| ENSG000000039139 | -2.134539025 | **background** | 3     |
| ENSG000000041982 | 1.879023679 | **background** | 4     |
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| ENSG000000043039 | 3.959290237 | **background** | 3     |
| ENSG000000046889 | 1.858870144 | **background** | 3     |
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| ENSG000000047597 | -1.101987097 | **background** | 4     |
| ENSG000000047621 | -1.343795938 | **background** | 4     |
| ENSG000000048052 | 3.400588113 | **NA** | 3     |
| ENSG000000049769 | 1.050478078 | **background** | 3     |
| ENSG000000050030 | 3.724590281 | **background** | 4     |
| ID            | Value         | Column1 | Column2 | Column3 | Column4 |
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| ENSG00000050165.17 | 3.397073283   | 5       | 5       | background | 4       |
| ENSG000000050344.8 | 2.372957337   | NA      | background | background | 4       |
| ENSG000000051128.18 | 1.785904919   | background | NA      | background | 4       |
| ENSG000000053328.8 | 1.581793041   | background | background | background | 3       |
| ENSG000000053524.12 | -1.445654413  | background | background | background | 5       |
| ENSG000000053747.15 | 1.895335339   | 5       | background | background | 3       |
| ENSG000000054598.6 | 1.450792653   | NA      | 5       | 5       | 5       |
| ENSG000000055163.19 | 1.011786667   | 5       | background | background | 3       |
| ENSG000000055732.12 | 1.550214996   | background | background | background | 3       |
| ENSG000000056558.10 | 2.287963595   | 5       | 5       | 4       | 4       |
| ENSG000000057593.13 | -1.041800624  | background | background | background | 4       |
| ENSG000000058085.14 | 1.5184088    | background | background | background | 5       |
| ENSG000000058404.19 | 1.205317077   | 5       | background | background | 3       |
| ENSG000000058453.16 | 1.100546026   | 5       | background | 5       | 3       |
| ENSG000000059377.16 | -1.183526166  | background | background | background | 3       |
| ENSG000000060718.20 | 3.954388683   | background | 5       | background | 4       |
| ENSG000000061918.12 | 1.106593411   | background | 4       | background | 4       |
| ENSG000000062370.16 | 1.013233978   | background | background | background | 4       |
| ENSG000000063169.10 | 1.018056598   | 4       | background | 3       | 3       |
| ENSG000000063660.8 | -1.165553683  | background | 5       | 5       | 3       |
| ENSG000000064195.7 | 3.920172803   | 3       | 4       | 3       | 3       |
| ENSG000000064225.12 | -1.90661901   | 5       | 5       | 5       | 4       |
| ENSG000000064300.8 | 4.178610148   | background | background | 4       | 4       |
| ENSG000000064547.13 | 1.339352921   | 5       | 5       | background | 4       |
| ENSG000000064687.12 | 1.395591995   | 5       | 5       | background | 4       |
| ENSG000000064692.18 | -3.249166291  | 5       | background | background | 4       |
| ENSG000000064787.13 | -2.067314919  | background | background | background | 4       |
| ENSG000000065325.12 | 1.236525157   | background | background | 5       | 4       |
| ENSG000000065989.15 | 1.835104526   | 5       | background | 4       | 3       |
| ENSG000000066230.10 | 2.118129506   | 5       | background | background | 4       |
| ENSG000000068028.17 | 1.684892993   | 5       | background | 4       | 4       |
| ENSG000000068615.17 | 1.835855034   | background | 5       | 4       |
| ENSG000000068831.18 | 4.868677769   | 5       | 5       | background | 2       |
| ENSG000000068976.13 | 1.158667955   | 5       | 5       | 4       |
| ENSG000000069696.6 | 3.33943479    | 5       | background | background | 5       |
| ENSG000000069812.11 | 3.189542855   | background | background | 4       |
| ENSG000000070031.3 | 4.679677223   | NA      | NA      | NA      | 5       |
| ENSG000000070182.19 | 3.228602285   | 5       | 5       | 4       | 3       |
| ENSG000000070214.15 | -1.141936912  | 5       | background | 5       |
| ENSG000000070269.13 | -1.137275325  | 5       | background | 5       |
| ENSG000000070367.15 | -1.125036035  | 5       | background | 4       | 4       |
| GenBank Accession | Name  | Value  | Type   | Value  | Type   | Value  |
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| 197 ENSG00000070444.14 | 1.071041121 | 4 | 5 | 4 | 4 |
| 197 ENSG00000070718.11 | 1.863510289 | background | 5 | 5 | 3 |
| 197 ENSG00000070731.10 | 1.449015814 | background | 5 | 3 | 3 |
| 197 ENSG00000070729.13 | 4.745992858 | 4 | 4 | 4 |
| 197 ENSG00000070866.11 | 4.909051251 | 5 | 4 | 4 |
| 197 ENSG00000071051.13 | 1.321291602 | 4 | 4 | 4 |
| 197 ENSG00000071991.8 | 3.226065247 | background | 5 | 3 | 3 |
| 197 ENSG00000072182.12 | 4.29896448 | 4 | 4 | 4 |
| 197 ENSG00000072315.3 | 1.449015814 | background | 5 | 3 | 3 |
| 197 ENSG00000073605.18 | 1.82741276 | background | 5 | 3 | 3 |
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| 197 ENSG00000073849.14 | -1.492853296 | background | 5 | 3 | 3 |
| 197 ENSG00000074181.18 | 4.600513472 | background | 5 | 3 | 3 |
| 197 ENSG00000074211.13 | 2.043325993 | 4 | 4 | 4 |
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| 197 ENSG00000075340.22 | 2.908118959 | background | 5 | 3 | 3 |
| 197 ENSG00000075426.11 | 1.153660149 | NA | 5 | 5 | 4 |
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| 197 ENSG00000077009.13 | 5.064806886 | background | 5 | 4 | 4 |
| 197 ENSG00000077279.18 | -1.812029786 | 5 | 5 | 4 | 3 |
| 197 ENSG00000077522.12 | 4.622899209 | background | 5 | 4 | 3 |
| 197 ENSG00000077616.10 | -1.334084053 | background | 4 | 4 | 4 |
| 197 ENSG00000078114.18 | 1.332803434 | background | 5 | 4 | 4 |
| 197 ENSG00000078401.6 | 2.671530478 | background | 5 | 5 | 5 |
| 197 ENSG00000079101.16 | 3.57476694 | background | 5 | 4 | 4 |
| 197 ENSG00000079689.13 | 1.146691592 | background | 5 | 4 | 4 |
| 197 ENSG00000080200.9 | -1.230142446 | background | 5 | 5 | 5 |
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| ENSG00000082014.16 | 1.2155457    | S      | S          | 5     |
| ENSG00000082212.12 | -1.081817293 | background | S | 3     |
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| ENSG00000084110.10 | -2.827872527 | 5      | 5          | 4     |
| ENSG00000084207.15 | -1.0574776   | 5      | background | 5     |
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| ENSG00000084731.14 | 1.492251239 | background | 5      | 4     |
| ENSG00000084734.8  | -2.096054183 | 4      | background | 5     |
| ENSG00000085644.13 | 1.322111435 | 5      | background | 4     |
| ENSG00000086696.10  | -1.061246444 | NA     | background | 4     |
| ENSG00000086730.16 | 1.03522292  | background | background | 5     |
| ENSG00000087074.7  | 1.58457977  | NA     | background | background | 4     |
| ENSG00000087076.8  | 1.966385723 | 5      | background | background | 4     |
| ENSG00000087116.14 | 2.483027541 | 4      | background | 4     |
| ENSG00000087245.12 | 2.27875573  | background | 5      | 4     |
| ENSG00000087250.8  | 1.833250555 | NA     | S          | 5     |
| ENSG00000087494.15 | 2.26160466  | NA     | background | 5     |
| ENSG00000088538.12 | 2.100285695 | 4      | background | 4     |
| ENSG00000088986.10 | -1.349852988 | NA     | background | 5     |
| ENSG00000088992.17 | 1.138548796 | background | background | 5     |
| ENSG00000089041.16 | 1.401766591 | background | background | 5     |
| ENSG00000089127.12 | -1.065973594 | background | background | 5     |
| ENSG00000089169.14 | 2.708563493 | 4      | background | background | 3     |
| ENSG00000089685.14 | 1.338168375 | 5      | background | 4     |
| ENSG00000089670.8  | 1.092588303 | 5      | NA         | 5     |
| ENSG00000090006.17 | 2.165443761 | 5      | background | 3     |
| ENSG00000090097.21 | -1.001612917 | background | background | 5     |
| ENSG00000090263.15 | 1.218780891  | NA     | background | 5     |
| ENSG00000090339.8  | 1.434469331 | background | background | 5     |
| ENSG00000090530.9  | 1.614061574 | 5      | background | 4     |
| ENSG00000090924.14 | 2.431816084 | background | background | 4     |
| ENSG00000091129.19 | 1.275170717 | 5      | background | 4     |
| ENSG00000091583.10 | -1.140367804 | background | background | 3     |
| ENSG00000091622.15 | 1.332217122 | 5      | background | 4     |
| ENSG00000091651.8  | 1.006558093 | background | background | 4     |
| Gene ID          | Value   | Background | Publication | Experiment | Feature |
|-----------------|---------|------------|-------------|------------|---------|
| ENSG00000091986.15 | 3.311442601 | 3 | 5 | 4 | 3 |
| ENSG00000092096.16 | 2.665783678 | S | 4 | 5 | 4 |
| ENSG00000092140.14 | -1.024799218 | background | background | 5 | background | 4 |
| ENSG00000092295.11 | 1.956488269 | S | background | background | 5 | background | 4 |
| ENSG00000092421.16 | 1.380090724 | background | background | 5 | 5 | 3 |
| ENSG00000092445.11 | -1.046545225 | S | 5 | 4 | 4 |
| ENSG00000092607.13 | -1.314727317 | background | background | 5 | background | 4 |
| ENSG00000092969.11 | 1.369220898 | S | 5 | background | 4 |
| ENSG00000093072.15 | 1.06963304 | S | 5 | 5 | 3 |
| ENSG00000093134.14 | -1.129147398 | background | background | 5 | background | 3 |
| ENSG00000095596.11 | -2.00687347 | NA | background | background | 4 |
| ENSG00000095752.6 | 2.061966564 | S | 4 | background | 4 |
| ENSG00000095932.6 | 2.18452049 | background | background | 5 | 4 |
| ENSG00000096060.14 | -1.102896054 | background | background | 5 | 3 |
| ENSG00000099194.5 | -1.07110094 | S | 5 | 4 | 4 |
| ENSG00000099282.9 | 2.547890847 | NA | background | background | 5 | background | 3 |
| ENSG00000099365.10 | 1.055252378 | background | background | 5 | 4 | 3 |
| ENSG00000099822.2 | 2.632480721 | S | background | background | 5 | 3 |
| ENSG00000099840.13 | -1.113504267 | S | background | background | 5 | 4 |
| ENSG00000099840.13 | 1.32744488 | S | background | background | 5 |
| ENSG00000099866.14 | 2.278196513 | NA | background | background | 3 |
| ENSG00000099889.13 | 2.171367678 | S | background | background | 5 | 4 |
| ENSG00000099958.14 | -3.315968455 | S | background | background | 5 |
| ENSG00000099977.13 | -1.212237015 | S | background | background | 5 |
| ENSG00000099985.3 | 5.194543152 | background | background | 4 | 4 |
| ENSG000000100003.17 | -1.159870282 | S | 5 | 4 | 3 |
| ENSG000000100077.14 | 1.430212361 | S | background | background | 5 | 4 |
| ENSG000000100079.6 | 1.851159226 | background | background | background | 4 |
| ENSG000000100170.9 | 2.383808366 | S | background | background | 4 |
| ENSG000000100196.10 | 1.062741935 | S | background | background | 4 |
| ENSG000000100263.13 | 1.242813845 | S | 4 | background | 4 |
| ENSG000000100290.2 | 1.496852185 | background | background | 5 | 4 |
| ENSG000000100292.16 | 1.69686439 | S | 5 | 5 | 3 |
| ENSG000000100302.6 | 2.527251458 | background | background | 4 | 3 |
| ENSG000000100336.17 | 1.359262894 | background | background | background | 3 |
| ENSG000000100341.11 | 3.612243389 | background | background | 4 | 4 |
| ENSG000000100473.15 | 1.680905595 | background | background | 4 |
| ENSG000000100490.9 | 2.404313577 | background | background | background | 4 |
| ENSG000000100505.13 | -1.485300546 | S | 5 | 4 | 4 |
| ENSG000000100526.19 | -1.175155564 | background | background | background | 4 |
| ENSG000000100578.14 | -1.035726505 | background | background | 5 | 3 |
| Gene Symbol | Value         | Background | B | A |
|-------------|--------------|------------|---|---|
| ENSG00000100625.8 | 1.271274629 | 5          | 5 | 4 |
| ENSG00000100626.16 | 4.179135255 | background | 4 | 3 |
| ENSG00000100652.4  | 3.208867149 | 4          | background | 4 | 4 |
| ENSG00000100767.15 | 5.20702295  | 5          | background | 4 | 4 |
| ENSG00000100784.10 | 2.091600647 | background | 4 | 3 |
| ENSG00000100842.12 | 5.82579292  | NA         | background | 4 | 4 |
| ENSG00000100867.14 | 1.270804327 | background | background | 4 | 4 |
| ENSG00000100918.12 | 2.176846774 | 5          | background | 5 | 4 |
| ENSG00000101084.17 | -1.24253652 | background | background | 4 | 4 |
| ENSG00000101104.12 | 1.23989086  | 5          | NA         | background | 3 | 4 |
| ENSG00000101144.12 | -1.91995404 | background | 3  | background | 3 | 4 |
| ENSG00000101210.10 | 3.558853191 | 4          | 5          | 4 | 4 |
| ENSG00000101213.6  | 3.133201634 | 5          | background | 5 | 4 |
| ENSG00000101298.13 | 1.834453665 | 5          | 5          | 4 | 4 |
| ENSG00000101331.15 | 3.966266156 | 5          | background | 5 | 4 |
| ENSG00000101384.11 | 1.251504862 | background | 4          | 3 | 4 |
| ENSG00000101405.3  | -1.710675651 | background | background | 5 | 4 |
| ENSG00000101489.19 | 2.200862283 | 5          | background | 5 | 2 |
| ENSG00000101544.8  | 1.453609341 | background | 5          | 4 | 4 |
| ENSG00000101665.8  | 1.602167514 | NA         | 5          | 5 | 3 |
| ENSG00000101680.14 | 2.52256279  | 5          | background | 4 | 4 |
| ENSG00000101888.11 | -1.049068666 | background | 5          | background | 5 | 4 |
| ENSG00000101974.14 | -1.28687775 | background | background | 3 | 4 |
| ENSG00000102048.15 | -1.17391999 | background | background | 4 | 4 |
| ENSG00000102057.9  | 2.621736953 | 5          | 4          | 5 | 4 |
| ENSG00000102109.8  | 1.140863683 | 5          | 5          | 5 | 5 |
| ENSG00000102230.13 | 3.19612013  | 4          | background | 5 | 4 |
| ENSG00000102287.18 | 2.006395014 | 5          | background | 4 | 3 |
| ENSG00000102302.7  | 1.42450003  | 5          | 4          | 4 | 4 |
| ENSG00000102317.17 | 1.337855168 | background | background | 4 | 4 |
| ENSG00000102349.17 | 1.883974265 | 5          | background | 4 | 4 |
| ENSG00000102445.18 | 2.324772513 | background | 5          | 4 | 4 |
| ENSG00000102466.15 | -4.928896713 | background | NA         | 2 | 4 |
| ENSG00000102763.17 | -1.200784631 | background | 5          | background | 3 | 4 |
| ENSG00000102904.14 | 1.178610759 | 5          | 5          | 4 | 4 |
| ENSG00000102908.20 | 1.146238669 | 5          | 5          | 5 | 3 |
| ENSG00000102910.13 | -1.330857696 | background | 4          | 4 | 4 |
| ENSG00000102935.11 | 2.946540945 | 3          | background | NA | 2 | 4 |
| ENSG00000102967.11 | -1.241388391 | background | background | 5 | 4 | 3 |
| Gene ID | Name          | log2FoldChange | Adj P-value | Freq1 | Freq2 |
|-------|---------------|----------------|-------------|-------|-------|
| ENSG00000103056.11 | -1.826212665  | 5              | 4           | 3     |
| ENSG00000103222.18 | 1.853497734   | 5 background   | 3           | NA    |
| ENSG00000103241.6  | 2.458438061   | NA             | 5           | 4     |
| ENSG00000103253.17 | 1.838037299   | 5 background   | 4           | 4     |
| ENSG00000103269.13 | 2.145053674   | background     | background  | 5     |
| ENSG00000103426.12 | 2.731837492   | 5 background   | 3           | NA    |
| ENSG00000103647.12 | 4.254002004   | background     | 5           | 5     |
| ENSG00000104081.13 | 2.624502051   | background     | 4           | 3     |
| ENSG00000104356.10 | -1.039257251  | 5 background   | 4           | NA    |
| ENSG00000104490.17 | -1.499009394  | background     | 5           | 3     |
| ENSG00000104524.13 | -1.003931354  | background     | 4           | 4     |
| ENSG00000104635.13 | -1.187070034  | 5 background   | 5           | 4     |
| ENSG00000104728.15 | 1.348560419   | 4 background   | 5           | 3     |
| ENSG00000104863.11 | 1.217459568   | 5 background   | 5           | NA    |
| ENSG00000104899.7  | 2.561525276   | 5 background   | 5           | 4     |
| ENSG00000104903.4   | 1.455940971   | 4 background   | 5           | 4     |
| ENSG00000104998.3   | 1.007266169   | 5 background   | 3           | 3     |
| ENSG00000105131.7   | 3.690520594   | 5 background   | 5           | 5     |
| ENSG00000105137.12  | 2.189978044   | background     | 5           | 4     |
| ENSG00000105146.12  | 1.223421582   | background     | background  | 4     |
| ENSG00000105173.13  | 1.182808387   | background     | background  | 4     |
| ENSG00000105219.8   | 1.997562989   | NA             | background  | 5     |
| ENSG00000105227.14  | 1.194267676   | 5 background   | 3           | 3     |
| ENSG00000105245.9   | 1.488026306   | 5 background   | 5           | 4     |
| ENSG00000105270.14  | 1.490109474   | 4 background   | 4           | 3     |
| ENSG00000105290.11  | 2.018646128   | 5 background   | background  | 4     |
| ENSG00000105321.12  | 1.127010224   | background     | background  | 4     |
| ENSG00000105327.17  | 2.757465647   | 5 background   | 5           | 4     |
| ENSG00000105329.9   | 1.311946973   | background     | 5           | 3     |
| ENSG00000105339.10  | 1.895018797   | background     | 5           | 2     |
| ENSG00000105369.9   | 2.401537864   | 5 background   | 5           | 4     |
| ENSG00000105376.4   | 1.54953856    | NA             | 5 background | 4     |
| ENSG00000105426.16  | 2.007211013   | 4 background   | 5           | 2     |
| ENSG00000105464.3   | 3.052088683   | 5 background   | 5           | 3     |
| ENSG00000105472.12  | 5.042984353   | background     | background  | 5     |
| ENSG00000105499.13  | 1.47436226    | 5 background   | NA           | 4     |
| ENSG00000105538.9   | 1.670230448   | 5 background   | background  | 4     |
| ENSG00000105550.8   | 4.192243176   | background     | background  | 5     |
| ENSG00000105619.13  | 1.058676789   | 5 background   | background  | 4     |
| ENSG00000105642.15  | 4.054202794   | NA             | background  | 5     |
| ENSG00000105642.15  | 4.054202794   | 5 background   | 5           | 4     |
| Ensembl   | Reference   | Description | Value  | Background | Sample  |
|-----------|-------------|-------------|--------|------------|---------|
| ENSG00000105643.9 | 1.112823655 | background   | 4      |            |         |
| ENSG00000105650.21 | 2.456535055 | 5           | 3      | 3          |         |
| ENSG00000105655.18 | 2.355138547 | background   | 4      | 3          |         |
| ENSG00000105662.15 | 1.511290767 | background   | 5      |            |         |
| ENSG00000105696.8 | 4.61465445  | 5           | background | 3          |
| ENSG00000105771.13 | 1.08731104  | 4           | 4      | 5          |         |
| ENSG00000105792.19 | -1.075121699 | 5           | 5      | 4          |         |
| ENSG00000105808.13 | 2.041362798 | 5           | background | 4          |
| ENSG00000105835.11 | -1.443562918 | background   | 5      | background | 4       |
| ENSG00000105948.13 | -1.129300245 | background   | background | 4          |
| ENSG00000106066.14 | 1.36563832  | background   | background | background | 3      |
| ENSG00000106327.12 | -1.871438869 | 5           | background | 5          |
| ENSG00000106333.12 | -1.349765307 | 5           | background | 4          |
| ENSG00000106336.12 | 1.402946255  | 5           | background | background | 4       |
| ENSG00000106351.12 | -1.5810877   | 4           | background | 4          |
| ENSG00000106484.14 | -1.11485369  | 4           | 5           | background | 4       |
| ENSG00000106624.10 | 1.758835299  | 5           | 5           | 5          | 3       |
| ENSG00000106701.11 | 1.303165411  | background   | background | background | 4       |
| ENSG00000106853.18 | -2.157814839 | background   | background | background | 3       |
| ENSG00000106948.16 | -1.116539522 | 4           | background | 4          |
| ENSG00000107130.9  | 1.949593297  | background   | background | 3          |
| ENSG00000107147.12 | 2.831759753  | 4           | background | 5          |
| ENSG00000107242.17 | 2.609543729  | background   | background | background | 3       |
| ENSG00000107281.9  | 3.278588791  | 5           | 4           | 5          | 4       |
| ENSG00000107371.12 | -1.098311347 | background   | background | background | 4       |
| ENSG00000107485.15 | 2.560245108  | 4           | 5           | background | 3       |
| ENSG00000107738.19 | -1.147145429 | background   | background | 4          |
| ENSG00000107742.12 | 4.115644179  | 4           | 4           | 4          |
| ENSG00000107821.14 | 1.110288463  | 5           | 5           | background | 4       |
| ENSG00000107831.12 | 5.247497947  | background   | background | background | 4       |
| ENSG00000107949.16 | -1.03377008  | background   | background | 4          |
| ENSG00000107959.15 | -1.10364937  | 5           | background | background | 4       |
| ENSG00000107984.9  | 2.238359721  | background   | background | background | 4       |
| ENSG00000108001.13 | 2.609454231  | background   | background | 5          |
| ENSG00000108242.12 | -1.603255211 | 5           | background | background | 4       |
| ENSG00000108244.16 | 2.408854525  | 5           | background | background | 4       |
| ENSG00000108262.15 | 1.062999704  | 5           | background | 4          |
| ENSG00000108479.11 | -1.011855784 | background   | background | 5          |
| ENSG00000108528.13 | -1.07225715  | 5           | 5           | background | 4       |
| ENSG00000108691.9  | 3.891435343  | background   | background | background | 4       |
| 197  | ENSG00000108797.11 | 2.614578288 | 4 | background | 4 | 4 |
| 197  | ENSG00000108813.10 | -2.529025763 | 5 | background | 5 | 3 |
| 197  | ENSG00000108819.10 | 1.020003124 | 5 | background | 5 | 3 |
| 197  | ENSG00000108821.13 | 2.08234322  | 5 | background | 5 | 4 |
| 197  | ENSG00000108984.13 | -1.34044763  | 5 | background | background | 2 |
| 197  | ENSG00000109063.14 | 1.92613957  | 5 | background | background | 4 |
| 197  | ENSG00000109089.7 | 2.106793643 | 5 | background | background | 4 |
| 197  | ENSG00000109113.19 | 1.366195883 | 4 | background | 4 | 5 | 4 |
| 197  | ENSG00000109181.11 | -2.436746348 | background | background | background | 5 |
| 197  | ENSG00000109321.10 | 3.22007429  | background | background | background | 5 |
| 197  | ENSG00000109519.12 | -1.31681354  | 5 | background | background | 5 | 3 |
| 197  | ENSG00000109586.11 | 1.274735926 | background | background | background | 4 |
| 197  | ENSG00000109618.11 | -1.326912732 | background | background | background | 4 |
| 197  | ENSG00000109743.10 | 1.0899753 | 5 | background | 5 | 3 |
| 197  | ENSG00000109814.11 | -1.573837914 | background | background | background | 5 | 3 |
| 197  | ENSG00000109846.7 | 1.548024363 | NA | background | background | 4 |
| 197  | ENSG00000109927.9 | 2.343371389 | 4 | NA | NA | 3 |
| 197  | ENSG00000109944.10 | 1.858173265 | background | 5 | background | 4 |
| 197  | ENSG00000110076.18 | 1.865351609 | 5 | 5 | 5 | 2 |
| 197  | ENSG00000110090.12 | -1.065748625 | 5 | background | 5 | 3 |
| 197  | ENSG00000110237.3 | 1.315659829 | 4 | 5 | 4 | 4 |
| 197  | ENSG00000110436.11 | -3.063039959 | background | background | 5 | 3 |
| 197  | ENSG00000110660.14 | 1.699304876 | background | 5 | 5 | 3 |
| 197  | ENSG00000110680.12 | 1.853887207 | 5 | background | 5 | 5 |
| 197  | ENSG00000110721.11 | 1.735908958 | background | background | 4 | 4 |
| 197  | ENSG00000110811.19 | 1.435135201 | 4 | background | 5 | 3 |
| 197  | ENSG00000110852.4 | -1.093092367 | background | background | background | 5 |
| 197  | ENSG00000110876.9 | 3.235667168 | NA | background | 5 | 4 |
| 197  | ENSG00000110887.7 | -1.004583319 | 5 | 5 | 5 | 3 |
| 197  | ENSG00000111012.9 | 1.030041329 | 5 | background | 5 | 3 |
| 197  | ENSG00000111199.10 | 2.346235074 | 5 | background | 5 | 4 |
| 197  | ENSG00000111206.12 | 1.325090674 | background | background | 5 | 4 |
| 197  | ENSG00000111247.14 | 1.346980026 | background | background | background | 4 |
| 197  | ENSG00000111249.13 | -1.087275975 | 5 | background | 3 | 2 |
| 197  | ENSG00000111344.11 | -1.499551822 | 4 | background | background | 3 |
| 197  | ENSG00000111452.12 | 1.770355762 | 5 | 5 | 5 | 3 |
| 197  | ENSG00000111653.19 | 1.105144949 | background | background | 5 | 4 |
| 197  | ENSG00000111674.8 | 1.323549429 | 5 | background | 5 | 4 |
| 197  | ENSG00000111700.12 | -2.349082698 | background | background | background | 4 |
| 197  | ENSG00000111713.2 | -1.706782132 | background | background | background | 3 |
| 197  | ENSG00000111799.20 | 2.88139707 | 5 | background | 5 | 3 |
|    | ENSG00000111850.10 | -1.014927078 | background | background | background | 4 |
|----|------------------|--------------|------------|------------|------------|---|
| 197| ENSG00000111860.13 | 1.225161147  | background | 5          | background | 2 |
| 197| ENSG00000112029.9  | 1.269357801  | background | background | background | 4 |
| 197| ENSG00000112139.14 | 1.572609708  | 4          | 5          | 4          | 3 |
| 197| ENSG00000112234.8  | -1.347488584 | 5          | background | background | 4 |
| 197| ENSG00000112297.14 | -1.284058574 | 5          | background | background | 4 |
| 197| ENSG00000112299.7  | -1.379297262 | 5          | background | background | 4 |
| 197| ENSG00000112320.11 | 1.462507934  | 5          | 5          | 3          | 3 |
| 197| ENSG00000112486.15 | -5.810607789 | background | background | background | 4 |
| 197| ENSG00000112812.15 | 2.112458178  | 5          | background | 5          | 3 |
| 197| ENSG00000112877.7  | 1.189870419  | background | background | background | 3 |
| 197| ENSG00000112902.11 | -1.015641309 | 5          | 5          | 5          | 2 |
| 197| ENSG00000113083.13 | 1.505622574  | background | 5          | 5          | 4 |
| 197| ENSG00000113140.10 | 2.880115082  | 5          | background | 5          | 4 |
| 197| ENSG00000113262.14 | 5.483373522  | 5          | background | background | 4 |
| 197| ENSG00000113319.12 | 1.133565916  | background | background | 3          | 3 |
| 197| ENSG00000113361.12 | 1.152929229  | NA         | background | 5          | 4 |
| 197| ENSG00000113361.12 | 1.152929229  | background | background | 5          | 4 |
| 197| ENSG00000113369.8  | 1.778276912  | background | background | background | 3 |
| 197| ENSG00000113389.15 | 2.465533366  | background | background | background | 3 |
| 197| ENSG00000113522.13 | -1.181103371 | 5          | 4          | 4          | 4 |
| 197| ENSG00000113594.9  | -1.335933534 | background | background | 5          | 4 |
| 197| ENSG00000113600.10 | -1.242173696 | background | 5          | background | 4 |
| 197| ENSG00000113758.13 | 2.92782802   | 4          | 5          | background | 4 |
| 197| ENSG00000113763.10 | 2.538399889  | 5          | 5          | 5          | 3 |
| 197| ENSG00000114019.14 | 1.075847463  | background | background | 3          | 3 |
| 197| ENSG00000114120.11 | 1.662786403  | 5          | 4          | 5          | 4 |
| 197| ENSG00000114251.14 | -1.00663418  | 4          | 4          | 5          | 3 |
| 197| ENSG00000114268.11 | 1.427618977  | background | background | 5          | 4 |
| 197| ENSG00000114270.17 | 4.537671974  | 5          | background | 5          | 2 |
| 197| ENSG00000114450.9  | 1.327461098  | 5          | background | 5          | 4 |
| 197| ENSG00000114646.9  | 2.102040114  | 5          | 4          | background | 4 |
| 197| ENSG00000114757.18 | 3.200471055  | background | 4          | 5          | 3 |
| 197| ENSG00000114771.13 | -1.1086869   | background | background | background | 4 |
| 197| ENSG00000114841.17 | 2.599017912  | 5          | background | background | 3 |
| 197| ENSG00000114854.7  | 2.34584069   | background | background | background | 4 |
| 197| ENSG00000114948.12 | 2.230407359  | background | background | background | 4 |
| 197| ENSG00000115107.19 | -1.260660684 | 5          | background | background | 3 |
| 197| ENSG00000115112.7  | 1.488639632  | 5          | background | 4          | 3 |
| 197| ENSG00000115137.11 | 1.15767755   | background | background | 5          | 3 |
| 197| ENSG00000115163.14 | 2.803652497  | background | 5          | background | 3 |
| Gene ID          | Value       | Background | | | |
|-----------------|-------------|------------|---|---|
| ENSG00000115194.10 | -2.475044226 | 5          | background | 5 | 4 |
| ENSG00000115226.9 | -1.133905832 | background | 4 | 5 | 4 |
| ENSG00000115363.13 | -1.007062588 | NA         | background | background | 3 |
| ENSG00000115368.9 | -1.11649921  | 5          | background | background | 5 |
| ENSG00000115507.9 | 2.031699894  | background | background | 4 | 4 |
| ENSG00000115556.13 | 1.339803478  | 5          | background | 5 | 4 |
| ENSG00000115590.13 | -1.102691429 | 5          | background | background | 4 |
| ENSG00000115604.10 | -1.209624086 | background | background | 4 | 4 |
| ENSG00000115616.2 | 1.169270852  | 5          | background | background | 4 |
| ENSG00000115648.13 | -1.217495402 | 5          | 5 | 5 | 3 |
| ENSG00000115657.12 | -1.135789053 | 4          | 5 | background | 3 |
| ENSG00000115844.10 | 5.30786373   | background | 4 | 5 | 4 |
| ENSG00000115850.9 | 3.601856996  | 5          | background | 3 | 3 |
| ENSG00000115896.15 | 1.283842174  | background | 5 | background | 2 |
| ENSG00000115956.9 | 1.250668611  | background | background | 4 | 3 |
| ENSG00000116132.11 | 4.430618009  | background | 4 | 5 | 3 |
| ENSG00000116141.15 | 2.439763814  | background | background | background | 3 |
| ENSG00000116157.5 | 1.89148995   | background | background | 5 | 5 |
| ENSG00000116455.13 | -1.030905869 | background | 5 | background | 4 |
| ENSG00000116544.11 | 2.609749155  | 5          | NA          | 4 | 4 |
| ENSG00000116584.17 | 1.076531753  | 3          | background | 4 | 2 |
| ENSG00000116668.12 | -1.016851047 | background | background | 5 | 4 |
| ENSG00000116701.14 | 3.582057576  | background | 5 | background | 3 |
| ENSG00000116748.21 | 4.965129929  | background | background | background | 4 |
| ENSG00000116774.11 | 2.865111765  | 5          | background | 4 | 4 |
| ENSG00000116785.13 | -3.545639533 | NA         | background | background | 4 |
| ENSG00000116882.14 | -1.709600239 | background | background | background | 4 |
| ENSG00000117013.14 | 4.30503251   | 5          | background | 5 | 3 |
| ENSG00000117245.12 | 3.21903504   | 5          | background | 5 | 3 |
| ENSG00000117318.8 | 1.580364319  | background | background | background | 4 |
| ENSG00000117399.13 | 1.131430922  | 5          | background | background | 4 |
| ENSG00000117407.16 | 3.27549293   | 4          | background | background | 4 |
| ENSG00000117425.13 | 1.898376565  | 4          | background | 5 | 4 |
| ENSG00000117472.9 | -1.473461583 | background | 5 | 5 | 4 |
| ENSG00000117480.15 | 1.36487549   | 4          | background | 5 | 4 |
| ENSG00000117569.18 | 1.135959527  | 5          | background | background | 3 |
| ENSG00000117594.9 | -3.632550926 | background | background | background | 4 |
| ENSG00000117616.17 | 1.064071157  | background | background | background | 3 |
| ENSG00000117620.14 | -1.132083052 | background | background | background | 3 |
| ENSG00000117834.12 | 1.096437151  | 5          | background | 5 | 4 |
| ENSG00000118096.7 | -1.095882753 | 5          | 5 | 4 | 4 |
| Gene ID          | Value          | Symbol | Background | Annotation | Score |
|-----------------|----------------|--------|------------|------------|-------|
| ENSG00000118156.12 | 2.357960805    | NA     | background | 4          |
| ENSG00000118160.13 | 3.620145153    | S      | 4          | 4          | 4     |
| ENSG00000118257.16 | -1.14186528    | 5      | background | 3          |
| ENSG00000118292.8  | 1.691327858    | background | background | 4          |
| ENSG00000118402.5   | 1.634864355    | background | 5          | 5          | 5     |
| ENSG00000118515.11 | 1.106188578    | background | background | 3          |
| ENSG00000118564.14 | -1.221129887   | background | 5          | background | 4     |
| ENSG00000118777.10 | -1.634776095   | background | background | 3          |
| ENSG00000118785.13 | -1.707438574   | background | background | 5          |
| ENSG00000118898.15 | -1.010878456   | 5      | background | 5          | 3     |
| ENSG00000118971.7   | 2.640016649    | 5      | 5          | 5          | 4     |
| ENSG00000119013.8    | -1.010046017   | background | background | 4          |
| ENSG00000119285.10 | -1.141634721   | 5      | background | 5          | 4     |
| ENSG00000119686.9    | -1.146157802   | 5      | background | 5          | 3     |
| ENSG00000119714.10   | 3.002559881    | NA     | background | 5          | 4     |
| ENSG00000119737.5    | 1.283346087    | NA     | background | 5          |
| ENSG00000119913.4    | -3.014360591   | 5      | NA         | background | 4     |
| ENSG00000119927.13   | -1.308096397   | background | background | 5          | 4     |
| ENSG00000119943.12   | 1.790368347    | 5      | background | 5          | 4     |
| ENSG00000120158.11   | -1.158575333   | background | background | 5          | 3     |
| ENSG00000120498.13   | 3.53956089     | background | NA         | background | 3     |
| ENSG00000120645.11   | 4.773438715    | 5      | 4          | background | 3     |
| ENSG00000120693.13   | 1.594556541    | 5      | 5          | 4          | 4     |
| ENSG00000120738.7    | 1.553290568    | NA     | 5          | 5          | 5     |
| ENSG00000120800.4    | -1.00235572    | 5      | 5          | background | 4     |
| ENSG00000120833.13   | 1.778954695    | 4      | 4          | 4          | 4     |
| ENSG00000120875.8    | 3.230113159    | background | 5          | 5          | 4     |
| ENSG00000120907.17   | -2.042517537   | NA     | background | 5          | 4     |
| ENSG00000120937.8    | 5.844342879    | background | background | 5          |
| ENSG00000121060.16   | -1.076620642   | background | 5          | 3          |
| ENSG00000121068.13   | 5.23709068     | background | 5          | 4          |
| ENSG00000121075.9    | 2.24506914     | 5      | background | 5          | 4     |
| ENSG000001211075.9    | 3.24727911     | NA     | background | 3          |
| ENSG00000121148.11   | -1.07964239    | 5      | background | 5          | 3     |
| ENSG00000121653.11   | 1.009113904    | 5      | 5          | 4          | 4     |
| ENSG00000121743.3    | 1.997024469    | NA     | background | 5          | 4     |
| ENSG00000121769.7    | 1.714048905    | background | 5          | 4          |
| ENSG00000121895.7    | 2.129595772    | background | background | 3          |
| ENSG00000121900.18    | 1.301352796    | 5      | background | 5          | 3     |
| ENSG00000121904.17    | 2.035024372    | 4      | background | 5          | 3     |
| ENSG00000122121.10    | -2.28423961    | 5      | 5          | 5          | 3     |
| Gene ID   | Expression Value | Benjamini-Hochberg FDR Adjusted P-Value | Background Information | Status  |
|-----------|------------------|----------------------------------------|------------------------|---------|
| ENSG00000122176.10 | 2.49825861 | 5 | 5 | 4 | 4 |
| ENSG00000122694.15 | 1.89540374 | 4 | 3 |
| ENSG00000122733.12 | 3.538104318 | 5 | 3 |
| ENSG00000122787.14 | -1.841316849 | 3 |
| ENSG00000122861.15 | 3.992687984 | 5 | 5 |
| ENSG00000122863.5 | 3.50829662 | 4 | 4 |
| ENSG00000122870.11 | 2.261466774 | 5 | 5 |
| ENSG00000123095.5 | 2.637000613 | 4 | 4 |
| ENSG00000123213.22 | -1.505643667 | 3 |
| ENSG00000123352.17 | 1.245959833 | 5 | 4 |
| ENSG00000123353.9 | -1.40090356 | 5 | 5 |
| ENSG00000123358.19 | 1.019278497 | 4 | 5 |
| ENSG00000123411.14 | 1.265026068 | 4 | 4 | 4 |
| ENSG00000123415.15 | -1.252786638 | 3 |
| ENSG00000123416.15 | -1.991428798 | 5 | 4 |
| ENSG00000123454.10 | 1.579833071 | 5 | 4 |
| ENSG00000123485.11 | 1.985356826 | 5 | 3 |
| ENSG00000123689.5 | -1.688673144 | NA | background | background | background |
| ENSG00000123815.11 | -1.402728174 | 3 | 3 |
| ENSG00000123999.4 | 3.141078299 | NA | background | background | 3 |
| ENSG00000124060.14 | 1.296912099 | 5 | 4 |
| ENSG00000124107.5 | -1.917069688 | NA | background | background | 5 |
| ENSG00000124143.10 | 4.095464749 | 4 | 4 | 5 | 4 |
| ENSG00000124159.15 | 3.127469655 | NA | background | background | 4 |
| ENSG00000124171.8 | 1.495822795 | 4 | 5 | 4 |
| ENSG00000124212.5 | 3.201089365 | 5 | 4 |
| ENSG00000124225.15 | 1.378732225 | 5 | 5 | 4 |
| ENSG00000124251.10 | 2.032683291 | 5 | 3 |
| ENSG00000124275.14 | -1.090118741 | background | background | background | 4 |
| ENSG00000124406.16 | 3.14771904 | 4 | 5 | 3 |
| ENSG00000124444.15 | -1.173849384 | background | background | 5 | 5 |
| ENSG00000124467.18 | 3.915800204 | NA | background | background | 4 |
| ENSG00000124508.16 | 1.076652244 | 5 | 4 |
| ENSG00000124608.4 | -1.11356976 | 5 | 4 |
| ENSG00000124613.8 | 2.193860032 | background | background | 5 | 4 |
| ENSG00000124766.6 | 1.381522626 | NA | 5 | 3 | 3 |
| ENSG00000124785.8 | -1.4441557 | background | 4 | 5 | 4 |
| ENSG00000124875.9 | 3.21590975 | background | 5 | background | 5 |
| ENSG00000124935.3 | -4.83820027 | background | background | background | 4 |
| 197 | ENSG00000124942.13 | -1.050115913 | background | 5 | background | 3 |
| 197 | ENSG00000125144.13 | -2.021710957 | NA | 5 | 4 | 4 |
| 197 | ENSG00000125148.6 | -2.885975572 | NA | 5 | background | 3 |
| 197 | ENSG00000125266.6 | 1.167464281 | background | background | 5 | 4 |
| 197 | ENSG00000125508.3 | 1.904570591 | background | background | 5 | 4 |
| 197 | ENSG00000125531.6 | 5.90401264 | NA | background | background | 4 |
| 197 | ENSG00000125630.15 | -1.330854132 | background | background | background | 4 |
| 197 | ENSG00000125675.17 | 1.478811913 | background | background | background | 2 |
| 197 | ENSG00000125703.14 | -1.196074935 | background | background | background | 4 |
| 197 | ENSG00000125733.17 | 1.195665048 | 5 | 5 | 5 |
| 197 | ENSG00000125740.13 | 2.03421401 | NA | background | 4 | 2 |
| 197 | ENSG00000125772.12 | 1.639693593 | background | background | 5 | 4 |
| 197 | ENSG00000125845.6 | 5.90401264 | NA | background | 4 |
| 197 | ENSG00000125848.9 | 1.251481166 | background | background | background | 4 |
| 197 | ENSG00000125895.5 | 2.12741773 | NA | 5 | 5 | 4 |
| 197 | ENSG00000125898.12 | 1.182425862 | NA | 5 | background | 4 |
| 197 | ENSG00000125966.9 | 3.840964727 | 5 | 5 | 4 |
| 197 | ENSG00000126106.13 | -1.175458252 | background | background | 5 | 4 |
| 197 | ENSG00000126215.13 | 1.21478222 | background | background | 5 | 3 |
| 197 | ENSG00000126262.4 | -1.23061386 | 5 | 5 | 5 |
| 197 | ENSG00000126262.4 | 2.348199633 | NA | NA | background | 4 |
| 197 | ENSG00000126353.3 | 4.675294987 | background | background | 5 | 5 |
| 197 | ENSG00000126368.5 | 3.215231446 | 5 | 5 | 4 |
| 197 | ENSG00000126522.16 | -1.012286487 | 5 | background | background | 4 |
| 197 | ENSG00000126603.8 | 1.953246554 | 5 | 5 | 4 | 4 |
| 197 | ENSG00000126705.13 | 1.020037515 | background | 5 | 3 | 3 |
| 197 | ENSG00000126709.14 | -1.808914823 | NA | background | background | 4 |
| 197 | ENSG00000126749.14 | -1.063528462 | background | background | 5 | 4 |
| 197 | ENSG00000126759.13 | 2.421142509 | 5 | background | 5 | 5 |
| 197 | ENSG00000127129.9 | 2.925950603 | background | background | 5 | 4 |
| 197 | ENSG00000127564.16 | 1.853253461 | 4 | background | 5 | 4 |
| 197 | ENSG00000127585.11 | 2.326512429 | 5 | background | 5 | 4 |
| 197 | ENSG00000127586.16 | 1.366503343 | 5 | background | 4 | 4 |
| 197 | ENSG00000127588.4 | 4.534442703 | NA | background | 5 | 5 |
| 197 | ENSG00000127824.13 | -1.451814546 | 5 | background | 5 | 4 |
| 197 | ENSG00000127948.15 | -1.164211752 | background | background | background | 4 |
| 197 | ENSG00000127980.15 | -1.179508481 | background | background | background | 4 |
| 197 | ENSG00000128165.8 | 1.006621313 | 4 | background | background | 4 |
| 197 | ENSG00000128266.8 | 2.163327036 | 5 | 5 | 3 |
| 197 | ENSG00000128274.15 | 1.915092333 | NA | background | 5 | 4 |
| 197 | ENSG00000128285.4 | -1.305407604 | NA | background | 5 | 5 |
| Gene ID                | Log2 Fold Change | Classification | Expression | Status 1 | Status 2 | Status 3 |
|-----------------------|------------------|----------------|------------|----------|----------|----------|
| ENSG00000128298.16    | 1.941779385      | background     | 5          | 5        | 5        | 4        |
| ENSG00000128342.4     | 3.474335694      | background     | 5          | 4        |          |          |
| ENSG00000128510.10    | 2.636695181      | background     | 5          | 4        |          |          |
| ENSG00000128591.15    | 2.550899269      | background     | 4          | 4        |          | 3        |
| ENSG00000128683.13    | 3.150492651      | background     | 4          | 4        |          | 3        |
| ENSG00000128694.11    | -1.161199231     | background     | 4          |          |          |          |
| ENSG00000128918.14    | -1.637424463     | background     | 5          | 4        |          | 3        |
| ENSG00000129194.7     | 1.961451884      | NA             | 5          |          |          |          |
| ENSG00000129214.14    | -1.207066806     | background     | 4          |          |          |          |
| ENSG00000129353.14    | 1.192511888      | 5              | background | 4        |          |          |
| ENSG00000129354.11    | 1.119654082      | 5              | background | 4        |          |          |
| ENSG00000129437.9     | 3.072018914      | 5              | 4          |          |          |          |
| ENSG00000129646.14    | 1.020032018      | 5              | background | 4        |          |          |
| ENSG00000129673.9     | 2.690515102      | 5              | background | 5        |          |          |
| ENSG00000129749.3     | 2.072784107      | 5              | 5          | 4        |          |          |
| ENSG00000129965.14    | -2.854057038     | 4              | 4          | 5        |          | 3        |
| ENSG00000130045.15    | 1.05390069       | NA             | background | NA       |          |          |
| ENSG00000130052.13    | -1.02214546      | 5              | 5          | 3        |          |          |
| ENSG00000130164.13    | 1.475832208      | background     | 5          |          |          |          |
| ENSG00000130176.7     | 4.147719768      | background     | 5          |          |          |          |
| ENSG00000130208.9     | -1.093200818     | background     | 5          |          |          |          |
| ENSG00000130222.10    | 1.521829108      | background     | 5          | background |          |          |
| ENSG00000130477.15    | 3.715529667      | 5              | NA         | 5        |          | 2        |
| ENSG00000130513.6     | 2.797904012      | NA             | background | 3        |          |          |
| ENSG00000130518.16    | 1.827980818      | 4              | background | 4        |          |          |
| ENSG00000130584.10    | 1.61429388       | background     | 5          |          |          | 3        |
| ENSG00000130635.15    | 3.355189317      | 5              | 5          | 3        |          |          |
| ENSG00000130675.14    | 3.55460232       | background     | 5          |          |          |          |
| ENSG00000130702.15    | 1.471658754      | 4              | background | 5        |          | 2        |
| ENSG00000130711.3     | 1.90723652       | 5              | 5          |          |          | 4        |
| ENSG00000130751.9     | 1.631119613      | 5              | background | 3        |          |          |
| ENSG00000130768.14    | 3.267183106      | background     | 5          |          |          |          |
| ENSG00000130827.6     | 1.198354453      | 4              | background | 4        |          |          |
| ENSG00000131016.16    | -1.584691262     | background     | 5          |          |          |          |
| ENSG00000131037.14    | 3.63648212       | background     | 4          |          |          |          |
| ENSG00000131080.14    | 2.265800559      | 4              | background | 3        |          |          |
| ENSG00000131389.16    | -1.01024741      | background     | 5          |          |          | 4        |
| ENSG00000131398.13    | -1.487255505     | 5              | background | 3        |          | 3        |
| ENSG00000131409.12    | 5.806247082      | 5              | 5          | 3        |          | 3        |
| ENSG00000131435.12    | 3.510139229      | background     | 5          |          |          | 3        |
| ENSG00000131459.12    | 1.432142492      | 5              | background | 5        |          | 3        |
| Gene ID | Abundance | Fold Change | Background | Background |
|---------|------------|-------------|------------|------------|
| ENSG00000131652.13 | 1.512134559 | 5 | background | background |
| ENSG00000131711.14 | 2.536592013 | 5 | 5 | 5 | 3 |
| ENSG00000131781.12 | -1.330058945 | background | background | background | 4 |
| ENSG00000131831.17 | 2.246325558 | background | background | background | 3 |
| ENSG00000131944.9 | 1.068522646 | background | background | 5 | 5 |
| ENSG00000131979.18 | -1.09464762 | background | background | 4 | 4 |
| ENSG00000132003.9 | 1.22099807 | 5 | background | 4 | 2 |
| ENSG00000132016.11 | 1.921030702 | background | background | 5 | 4 |
| ENSG00000132031.12 | 2.556283098 | NA | background | background | 3 |
| ENSG00000132164.9 | 1.381136395 | 5 | background | 5 | 3 |
| ENSG00000132205.10 | 1.028529064 | background | background | 5 | 3 |
| ENSG00000132313.14 | -1.06110925 | background | background | 5 | 4 |
| ENSG00000132321.16 | 1.59786107 | background | 5 | background | 3 |
| ENSG00000132326.11 | 1.204850986 | 5 | background | 4 | 4 |
| ENSG00000132423.11 | -1.475190383 | background | background | background | 4 |
| ENSG00000132424.14 | 1.25561245 | background | background | background | 4 |
| ENSG00000132510.10 | 1.208191509 | 3 | background | 4 | 3 |
| ENSG00000132535.18 | 2.361197624 | 4 | 3 | 4 | 3 |
| ENSG00000132563.15 | 3.105012507 | 5 | background | background | 4 |
| ENSG00000132677.12 | -2.223218773 | 5 | background | background | 4 |
| ENSG00000132718.8 | 3.055285521 | background | background | 4 | 4 |
| ENSG00000132749.10 | 4.27543531 | background | 5 | 5 | 3 |
| ENSG00000132763.14 | -1.010428799 | NA | background | 4 | 4 |
| ENSG00000133111.3 | 1.036205754 | NA | background | 5 | 5 |
| ENSG00000133116.7 | 2.115638146 | background | background | 5 | 4 |
| ENSG00000133138.19 | -1.006108587 | 5 | background | 5 | 4 |
| ENSG00000133247.13 | 1.369175356 | 4 | 5 | 4 | 4 |
| ENSG00000133265.10 | -1.068400677 | 5 | 5 | 4 | 3 |
| ENSG00000133401.15 | 1.678157491 | 4 | background | 5 | 3 |
| ENSG00000133466.13 | 1.276642447 | background | background | 3 | 3 |
| ENSG00000133619.17 | 1.667084965 | background | background | 5 | 4 |
| ENSG00000133665.12 | -1.335092838 | NA | background | 5 | 4 |
| ENSG00000133704.9 | -1.61072624 | background | 5 | 4 | 4 |
| ENSG00000133739.15 | -1.75099764 | background | 5 | 5 | 4 |
| ENSG00000133812.15 | 1.692880803 | 5 | background | background | 3 |
| ENSG00000133985.2 | 1.17567394 | NA | background | 4 | 4 |
| ENSG00000134013.15 | 1.677411453 | 4 | 4 | 5 | 3 |
| ENSG00000134042.12 | -1.237123524 | background | background | 4 | 4 |
| ENSG00000134056.11 | -1.01158023 | background | background | background | 4 |
| ENSG00000134146.11 | -1.364163051 | background | background | 5 | 4 |
| ENSG00000134201.10 | -1.144765255 | 5 | background | 4 | 4 |
| GeneID   | Description | Value 1  | Value 2  | Value 3  | Value 4  | Value 5  |
|----------|-------------|---------|---------|---------|---------|---------|
| ENSG00000134253.9 | 1.325193411 | 4       | 5       | 4       | 3       |         |
| ENSG00000134278.15 | 1.15108391  |         |         |         |         |         |
| ENSG00000134333.13 | -1.901831924 | 5       |         |         |         |         |
| ENSG00000134365.12 | -3.254971379 | NA      |         |         |         |         |
| ENSG00000134389.9  | -1.16067668 |         |         |         |         |         |
| ENSG00000134480.13 | -1.090202893 |         |         |         |         |         |
| ENSG00000134531.9  | 2.131774533 | 5       |         |         |         |         |
| ENSG00000134757.6  | -1.12731915 |         |         |         |         |         |
| ENSG00000134987.11 | -1.028311554 |         |         |         |         |         |
| ENSG00000135046.13 | 1.39394995  |         |         |         |         |         |
| ENSG00000135049.15 | -1.391527964 | 4       |         |         |         |         |
| ENSG00000135063.17 | 2.199064001 |         |         |         |         |         |
| ENSG00000135094.10 | -1.956160043 | 5       |         |         |         |         |
| ENSG00000135241.16 | -1.00417093 |         |         |         |         |         |
| ENSG00000135318.11 | -1.742470639 |         |         |         |         |         |
| ENSG00000135407.10 | 1.92665369  | 5       |         |         |         |         |
| ENSG00000135414.9  | 1.47151418  |         |         |         |         |         |
| ENSG00000135423.12 | -1.373271801 |         |         |         |         |         |
| ENSG00000135480.15 | 1.10758013  |         |         |         |         |         |
| ENSG00000135519.6  | 4.028293469 | 5       |         |         |         |         |
| ENSG00000135596.17 | 1.059403473 | 3       |         |         |         |         |
| ENSG00000135638.13 | 1.977590527 |         |         |         |         |         |
| ENSG00000135643.4  | 2.93348752  |         |         |         |         |         |
| ENSG00000135679.22 | 1.170249677 |         |         |         |         |         |
| ENSG00000135736.5  | 2.247288487 | 5       |         |         |         |         |
| ENSG00000135749.18 | 1.252995023 |         |         |         |         |         |
| ENSG00000135835.11 | 2.215656995 |         |         |         |         |         |
| ENSG00000135842.16 | -1.63080211 |         |         |         |         |         |
| ENSG00000135919.12 | 1.051039673 |         |         |         |         |         |
| ENSG00000135976.17 | 1.08796637  |         |         |         |         |         |
| ENSG00000136010.13 | -1.356474657 |         |         |         |         |         |
| ENSG00000136051.13 | -1.103971407 |         |         |         |         |         |
| ENSG00000136098.16 | -1.17557874 |         |         |         |         |         |
| ENSG00000136193.16 | 2.543715849 |         |         |         |         |         |
| ENSG00000136274.8  | 5.56554336  |         |         |         |         |         |
| Gene ID | Value 1 | Value 2 | Value 3 | Value 4 | Value 5 |
|---------|---------|---------|---------|---------|---------|
| ENSG00000136279.20 | -1.043517363 | background | background | 4 | 3 |
| ENSG00000136383.6 | 1.605261835 | 5 | 4 | 4 | 4 |
| ENSG00000136535.14 | 3.352964999 | background | background | 5 | 3 |
| ENSG00000136542.8 | 2.832633794 | background | background | 5 | 3 |
| ENSG00000136732.14 | 4.566567794 | background | background | 3 |
| ENSG00000136810.12 | -1.068795042 | NA | background | background | 4 |
| ENSG00000136828.18 | 1.114750363 | background | 5 | 2 |
| ENSG00000136830.11 | 1.249541095 | background | 4 | 3 |
| ENSG00000136859.9 | 2.948588984 | background | background | 4 |
| ENSG00000136883.13 | 1.048032865 | background | 4 | 3 |
| ENSG00000136891.18 | -2.125739447 | background | background | 4 |
| ENSG00000136907.11 | 1.004799433 | background | 4 |
| ENSG00000136907.11 | -1.115269971 | background | background | 5 | 3 |
| Ensembl Transcript ID | Log2 Fold Change | Significance | p-value | q-value |
|----------------------|-----------------|--------------|---------|---------|
| ENSG00000138134.11   | -1.448571405     | background   | 5       | 5       |
| ENSG00000138161.13   | 2.175467278      | background   | 4       | 3       |
| ENSG00000138311.15   | 4.022804945      | background   | 4       | 3       |
| ENSG00000138622.3    | 3.549864661      | background   | 5       | 4       |
| ENSG00000138623.9    | 2.109527683      | background   | 5       | 4       |
| ENSG00000138678.10   | -1.881994713     | background   | 5       | 4       |
| ENSG00000138759.18   | 1.260891985      | background   | 4       | 2       |
| ENSG00000138764.14   | 1.314055042      | background   | 3       | 3       |
| ENSG00000138769.10   | -1.142568777     | background   | 4       | 4       |
| ENSG00000138834.12   | 1.395452715      | background   | 5       | 3       |
| ENSG00000138892.11   | 6.036204408      | NA           | NA      | 4       |
| ENSG00000139044.10   | 1.101157544      | background   | 4       | 3       |
| ENSG00000139190.16   | 1.01130788       | background   | 5       | 5       |
| ENSG00000139344.7    | -1.252500863     | background   | 4       | 4       |
| ENSG00000139364.10   | 1.210209596      | background   | 5       | 3       |
| ENSG00000139567.12   | -2.585451743     | background   | 4       | 3       |
| ENSG00000139625.12   | 1.518870277      | background   | 5       | 4       |
| ENSG00000139668.8    | 1.000784409      | background   | 4       | 3       |
| ENSG00000139734.17   | 2.408734856      | background   | 3       |         |
| ENSG00000139800.8    | 3.346736417      | NA           | NA      | 4       |
| ENSG00000139874.5    | -2.023721883     | background   | 5       | 4       |
| ENSG00000139880.19   | 1.840668327      | 4            | 5       | 3       |
| ENSG00000139890.9    | 2.510985063      | background   | 5       | 3       |
| ENSG00000139899.10   | 2.675655223      | NA           | background | 4 | 4 |
| ENSG00000139926.15   | 1.027231837      | background   | 4       |         |
| ENSG00000139970.16   | 1.669417971      | background   | 5       |         |
| ENSG00000140092.14   | 1.901537825      | 5            | 5       |         |
| ENSG00000140263.13   | -1.029905006     | background   | 5       |         |
| ENSG00000140367.11   | 1.050731395      | background   | 5       |         |
| ENSG00000140368.12   | 4.375848338      | 5            | 4       |         |
| ENSG00000140403.12   | 1.29044558       | background   | 5       |         |
| ENSG00000140465.13   | 2.477466349      | 5            | 5       |         |
| ENSG00000140505.6    | 2.988010963      | background   | 5       |         |
| ENSG00000140511.11   | 3.848834284      | NA           | background | 4 | 3 |
| ENSG00000140519.12   | -2.73289966      | background   | 5       |         |
| ENSG00000140564.11   | -1.013880713     | 4            | 5       |         |
| ENSG00000140682.18   | 1.93265212       | 4            | 5       |         |
| ENSG00000140931.19   | 1.13201724       | background   | 5       |         |
| ENSG00000140937.13   | 1.403189946      | background   | 5       |         |
| ENSG00000140993.10   | 2.355361111      | NA           | background | 5 |         |
| ENSG00000141040.14   | 2.010429761      | background   | 5       |         |
| Gene  | Value       | Stratum | Stratum | Background | Stratum |
|-------|-------------|---------|---------|------------|---------|
| ENSG00000141258.12 | 1.049976092 | 5 | background | 4 | 3 |
| ENSG00000141391.13 | 4.119535539 | background | background | 5 | 4 |
| ENSG00000141497.13 | 2.141407768 | 5 | background | background | 4 |
| ENSG00000141526.16 | 2.183811967 | NA | background | background | 3 |
| ENSG00000141639.11 | 2.702958339 | 5 | 4 | 3 |
| ENSG00000141738.13 | 1.406982717 | background | background | 4 | 4 |
| ENSG00000141971.12 | -1.114407519 | 4 | 5 | 5 | 4 |
| ENSG00000142173.14 | 1.23323446 | background | background | 5 | 4 |
| ENSG00000142227.10 | 1.393802704 | background | background | 5 | 4 |
| ENSG00000142273.10 | -1.179170168 | 5 | background | background | 4 |
| ENSG00000142279.12 | 2.671442492 | background | background | 5 | 3 | 3 |
| ENSG00000142303.13 | 2.969643935 | 4 | background | 5 | 4 |
| ENSG00000142549.9 | 1.519210778 | 5 | NA | 5 | 2 |
| ENSG00000142583.17 | 3.927300121 | 5 | 5 | 5 | 4 |
| ENSG00000142611.16 | 2.228006267 | 5 | background | 4 | 3 |
| ENSG00000142661.18 | 2.809229684 | 5 | 5 | 5 | 4 |
| ENSG00000142677.3 | -1.841545887 | 4 | background | 5 | 4 |
| ENSG00000142765.17 | 3.085925808 | background | background | 5 | 2 |
| ENSG00000142794.18 | 1.933823664 | background | background | 5 | 4 |
| ENSG00000142798.17 | 2.576520967 | 4 | background | 3 | 3 |
| ENSG00000142959.4 | 2.430179804 | background | NA | background | 5 |
| ENSG00000143147.14 | 2.180514495 | 3 | 5 | background | 3 |
| ENSG00000143257.11 | -1.116378361 | 4 | background | background | 4 |
| ENSG00000143333.6 | 2.32642904 | background | 5 | 5 | 4 |
| ENSG00000143369.14 | 1.720576231 | 5 | background | 5 | 5 |
| ENSG00000143382.14 | 1.185363697 | 4 | 5 | 4 | 4 |
| ENSG00000143387.12 | 2.616009785 | background | background | 5 |
| ENSG00000143515.16 | 1.083270274 | 5 | NA | 4 | 4 |
| ENSG00000143631.10 | -2.530318376 | NA | background | background | 4 |
| ENSG00000143797.11 | 3.497208389 | background | background | 5 | 4 |
| ENSG00000143816.7 | 2.522479258 | background | background | 4 | 3 |
| ENSG00000143845.14 | -1.594398193 | 5 | background | 5 | 3 |
| ENSG00000143858.11 | 2.449059739 | 5 | background | 4 | 4 |
| ENSG00000144035.3 | -1.78954833 | NA | background | background | 5 |
| ENSG00000144228.8 | 1.00088073 | background | background | 3 |
| ENSG00000144369.12 | 1.710287518 | background | background | 4 |
| ENSG00000144522.14 | 2.632397296 | 4 | background | background | 3 |
| ENSG00000144596.12 | 3.660036729 | background | background | 4 | 4 |
| ENSG00000144642.21 | 2.165876276 | background | background | 3 |
| ENSG00000144648.15 | -1.234380154 | NA | 5 | 5 | 4 |
| ENSG00000144668.11 | 1.902343859 | 5 | background | 5 | 3 |
| Gene ID          | Value             | Background 1 | Background 2 | Background 3 | Background 4 |
|-----------------|-------------------|--------------|--------------|--------------|--------------|
| ENSG00000144671.10 | 3.366893518       | 5            | background   | 3            |
| ENSG00000144681.10 | 2.461607833       | 5            | 5            | 5            | 3            |
| ENSG00000144824.20 | 1.228316316       | 5            | background   | 4            |
| ENSG00000144840.8  | -1.120057405      | background   | background   | 5            | 4            |
| ENSG00000144893.12 | 1.040155891       | 5            | background   | 3            |
| ENSG00000145014.17 | 1.986800354       | 5            | background   | 4            |
| ENSG00000145022.4  | -1.334363126      | background   | background   | 5            | 5            |
| ENSG00000145075.11 | 1.754235052       | NA           | background   | 4            |
| ENSG00000145075.11 | 1.754235052       | background   | background   | 4            |
| ENSG00000145192.12 | -2.27653889       | 5            | 5            | background   | 5            |
| ENSG00000145198.14 | 4.754883732       | 5            | background   | 4            | 2            |
| ENSG00000145311.13 | -1.036451993      | background   | background   | 4            | 4            |
| ENSG00000145358.6  | 2.198230068       | background   | background   | background   | background   | 5            |
| ENSG00000145476.15 | -1.188890963      | background   | 5            | background   | 4            |
| ENSG00000145506.13 | 2.832651504       | 5            | 5            | background   | 4            |
| ENSG00000145526.11 | 4.21287524        | background   | background   | 4            |
| ENSG00000145569.5  | 1.163837299       | background   | background   | 3            |
| ENSG00000145632.14 | 1.036110193       | background   | 5            | background   | 5            |
| ENSG00000145826.8  | -1.173965212      | 5            | background   | 4            |
| ENSG00000145832.12 | -3.546046987      | 4            | 5            | background   | 4            |
| ENSG00000145860.11 | 1.371616636       | 5            | background   | 4            |
| ENSG00000145934.16 | -1.704293574      | 5            | 5            | background   | 3            |
| ENSG00000145949.9  | 1.087428291       | 5            | background   | 4            | 3            |
| ENSG00000146038.11 | 1.572342607       | background   | 5            | 3            |
| ENSG00000146039.10 | 1.6396949         | 4            | 5            | 4            | 4            |
| ENSG00000146147.14 | -1.126461985      | NA           | background   | 3            |
| ENSG00000146267.11 | 4.151122252       | background   | 4            | 4            | 4            |
| ENSG00000146285.13 | -1.468638689      | 5            | background   | NA           | 4            |
| ENSG00000146426.17 | 1.011459224       | background   | background   | 2            |
| ENSG00000146555.18 | 1.582293914       | background   | background   | 4            | 3            |
| ENSG00000146648.17 | -1.656097363      | 4            | background   | 5            | 3            |
| ENSG00000146802.12 | -1.005935999      | background   | background   | 5            |
| ENSG00000146830.9  | 1.046593033       | 4            | 4            | 4            | 3            |
| ENSG00000146856.14 | 1.711084766       | background   | background   | 5            | 3            |
| ENSG00000147003.5  | 1.086035928       | background   | background   | 4            |
| ENSG00000147168.12 | 2.165686604       | 4            | background   | 5            | 4            |
| ENSG00000147174.11 | 1.270295633       | 5            | 5            | 5            | 3            |
| ENSG00000147394.18 | 1.394977632       | background   | background   | 5            | 2            |
| ENSG00000147872.9  | -1.371136286      | background   | background   | 4            |
| ENSG00000148082.9  | -1.213731708      | 5            | 4            | 3            | 4            |
| ENSG00000148399.12 | 1.051052169 | 5 | 5 | background | 3 |
| ENSG00000148468.16 | 1.261151682 | background | background | 5 | 3 |
| ENSG00000148655.14 | 1.031384013 | background | background | 5 | 3 |
| ENSG00000148677.6 | 2.166022067 | background | background | 5 | 4 |
| ENSG00000148789.10 | 2.700113586 | background | background | 5 | 4 |
| ENSG00000148848.14 | -2.597425866 | background | background | 5 | 3 |
| ENSG00000148908.14 | 1.722164557 | background | background | 5 | 3 |
| ENSG00000148926.9 | 1.218096984 | background | background | 5 | 5 |
| ENSG00000149150.8 | -1.013520387 | background | background | 4 | 4 |
| ENSG00000149182.14 | -1.076457859 | background | background | 4 | 4 |
| ENSG00000149243.15 | 2.766184273 | NA | background | 4 | 4 |
| ENSG00000149435.12 | 6.320106787 | background | background | 4 | 4 |
| ENSG00000149557.12 | 1.51664739 | 5 | 5 | background | 4 |
| ENSG00000149564.11 | 1.749716593 | 5 | 5 | background | 3 |
| ENSG00000149591.16 | 2.618794237 | background | background | 4 | 4 |
| ENSG00000149596.6 | 5.02917273 | 5 | 5 | background | 3 |
| ENSG00000149599.15 | 2.801125568 | background | background | 4 | 3 |
| ENSG00000149639.14 | 2.19262548 | background | background | 5 | 3 |
| ENSG00000149646.12 | 1.926013559 | background | background | 4 | 3 |
| ENSG00000149781.12 | 3.42617859 | 5 | 5 | background | 3 |
| ENSG00000150347.14 | 1.184571167 | background | background | 5 | 3 |
| ENSG00000150394.13 | 3.89646543 | 4 | 5 | background | 3 |
| ENSG00000150401.14 | 1.25496209 | background | background | 3 | 3 |
| ENSG00000150401.14 | 1.25496209 | NA | background | 4 | 3 |
| ENSG00000150433.9 | -1.193256507 | 5 | 5 | background | 5 |
| ENSG00000150457.8 | 1.089132317 | 5 | 5 | background | 4 |
| ENSG00000150839.10 | -1.967101881 | background | background | 5 | 4 |
| ENSG00000150938.9 | 1.230923091 | background | background | 4 | 4 |
| ENSG00000151023.16 | -1.191071233 | background | background | 4 | 4 |
| ENSG00000151067.21 | -3.115832175 | NA | background | 3 | 3 |
| ENSG00000151136.14 | -1.429861952 | 5 | 5 | background | 3 |
| ENSG00000151224.12 | -1.242607401 | background | background | 5 | 3 |
| ENSG00000151353.14 | 1.019665292 | background | background | 5 | 4 |
| ENSG00000151365.2 | 1.911610366 | NA | background | 5 | 5 |
| ENSG00000151388.10 | 3.294179998 | 3 | 5 | background | 3 |
| ENSG00000151466.11 | -1.0942392 | background | background | 5 | 5 |
| ENSG00000151632.17 | -2.258201696 | 5 | 5 | background | 4 |
| ENSG00000151651.15 | 2.065168937 | background | 5 | 4 |
| ENSG00000151651.15 | 2.065168937 | background | 4 | 4 |
| ENSG00000151687.14 | 1.18109614 | 5 | 5 | background | 4 |
| Ensembl ID | Gene Name | Feature | Length | Expression | Background | ENG | ENG |
|------------|-----------|---------|--------|------------|------------|-----|-----|
| ENSG00000151702.16 | 1.129115699 | 5 background | 5 | 3 |
| ENSG00000151726.13 | -1.748292604 background | background background background | 3 |
| ENSG00000151746.13 | 1.160962253 background | background background background | 3 |
| ENSG00000151773.12 | 1.291887487 background | background background | 5 |
| ENSG00000151806.13 | -0.64655303 background | background | 5 |
| ENSG00000152076.18 | 4.19863192 background | background background background | 4 |
| ENSG00000152137.6 | 1.885790874 background | background | 5 |
| ENSG00000152253.8 | 1.76345597 background | background | 5 |
| ENSG00000152270.8 | -1.238739875 background | background | 5 |
| ENSG00000152315.4 | 1.11499633 background | background | 5 |
| ENSG00000152377.13 | -1.978086701 background | background | 4 |
| ENSG00000152422.15 | -1.04264857 background | background background | 2 |
| ENSG00000152454.3 | 1.24881639 background | background | 4 |
| ENSG00000152518.7 | 1.50786368 NA | 4 | 4 |
| ENSG00000152582.13 | -1.294759708 background | background | 4 |
| ENSG00000152661.7 | 1.851921938 NA background | background | 5 |
| ENSG00000152669.8 | 1.239110024 NA background | background | 4 |
| ENSG00000152760.9 | -1.86753368 background | background | 5 |
| ENSG00000153201.15 | -1.026331899 background | background | 4 |
| ENSG00000153214.9 | -1.634477523 background | background | 5 |
| ENSG00000153246.12 | 1.83509148 background | background | 4 |
| ENSG00000153291.15 | 1.542400786 background background background | 4 |
| ENSG00000153395.9 | 1.069710943 background | background | 5 |
| ENSG00000153495.10 | 2.646810619 background background background | 4 |
| ENSG00000153558.13 | 1.662993618 background background background | 4 |
| ENSG00000153822.13 | 1.719364789 background background | 5 |
| ENSG00000153896.17 | 1.444911079 background background | 5 |
| ENSG00000154102.10 | 1.67536076 background background background | 3 |
| ENSG00000154240.16 | 1.07056861 background background background | 3 |
| ENSG00000154252.11 | 4.324519449 background | 5 background | 4 |
| ENSG00000154258.16 | -1.012161351 background background background | 4 |
| ENSG00000154358.20 | 4.378315969 NA NA | 2 |
| ENSG00000154545.16 | 1.89414771 background background | 3 |
| ENSG00000154548.8 | 2.896662854 background background | 4 |
| ENSG00000154620.5 | 1.17064043 NA background | 5 |
| ENSG00000154678.16 | 2.31882692 background background background | 3 |
| ENSG00000154743.17 | -1.095301237 background background | 4 |
| ENSG00000154783.11 | 1.812515064 background background | 3 |
| ENSG00000154917.10 | 1.602530368 background | 5 |
| ENSG00000155093.17 | 2.148562893 background background | 5 |
| ENSG00000155393.12 | -1.37120643 background | 5 |

| Gene  | Log2 Fold Change | Adj P Value | B  | C  |
|-------|-----------------|-------------|----|----|
| ENSG00000155428.12 | 1.51311879 | NA | background | 5 | 4 |
| ENSG00000155465.18 | 2.33240236 | 5 | 5 | background | 4 |
| ENSG00000155511.17 | 2.29197958 | background | background | 5 | 3 |
| ENSG00000155897.9 | 1.45026056 | 5 | 5 | background | 2 |
| ENSG00000155980.11 | 3.62030867 | 5 | background | 4 | 4 |
| ENSG00000156017.12 | -1.05566884 | background | background | background | 3 |
| ENSG00000156127.6 | 1.34763094 | NA | background | background | 4 |
| ENSG00000156136.9 | 1.03393754 | 5 | 5 | 5 | 4 |
| ENSG00000156206.13 | 3.58442811 | background | background | background | 3 |
| ENSG00000156232.7 | 1.32980918 | background | background | 4 | 4 |
| ENSG00000156313.12 | -1.13641897 | 5 | 5 | background | 3 |
| ENSG00000156384.14 | -1.16547634 | background | 5 | 4 | 4 |
| ENSG00000156398.12 | -1.26095957 | background | background | 4 | 4 |
| ENSG00000156413.13 | -1.20102266 | NA | 3 | background | 3 |
| ENSG00000156427.7 | 5.39335773 | background | background | background | 2 |
| ENSG00000156804.7 | 1.37785235 | background | background | 3 | 3 |
| ENSG00000156869.12 | -1.10628439 | background | 4 | background | 3 |
| ENSG00000156959.8 | 4.69043275 | 4 | 5 | 5 | 3 |
| ENSG00000157087.17 | -1.82260807 | 4 | 5 | 4 | 2 |
| ENSG00000157103.10 | -1.03404089 | 5 | background | 5 | 4 |
| ENSG00000157131.10 | -1.41253048 | background | background | background | 4 |
| ENSG00000157150.4 | -1.74652343 | background | 5 | 5 | 4 |
| ENSG00000157227.12 | 1.80899246 | background | background | 4 | 4 |
| ENSG00000157322.17 | 1.23857173 | background | background | 5 | 4 |
| ENSG00000157335.20 | 3.71270767 | 5 | background | 5 | 4 |
| ENSG00000157343.8 | 1.56529353 | background | background | background | 4 |
| ENSG00000157507.11 | 2.07787056 | background | background | 4 | 3 |
| ENSG00000157734.13 | 1.98607636 | background | background | 5 | 4 |
| ENSG00000158008.9 | 3.43906620 | 4 | 5 | 4 | 3 |
| ENSG00000158022.6 | 4.27147270 | 5 | background | background | 4 |
| ENSG00000158023.9 | 1.38162174 | 5 | 4 | 5 | 3 |
| ENSG00000158055.15 | 2.15074078 | 5 | background | background | 3 |
| ENSG00000158106.13 | 1.24169061 | 5 | background | 3 | 3 |
| ENSG00000158186.12 | 1.86324201 | background | background | 5 | 3 |
| ENSG00000158220.13 | 1.33507412 | 5 | background | 5 | 4 |
| ENSG00000158246.7 | 1.69525101 | NA | 5 | 5 | 4 |
| ENSG00000158286.12 | 1.13404632 | 4 | background | 4 | 4 |
| ENSG00000158402.18 | 6.01064858 | 5 | background | background | 3 |
| ENSG00000158528.11 | 1.10832853 | background | background | 5 | 3 |
| ENSG00000158571.10 | -1.14181383 | 5 | background | 5 | 3 |
| ENSG00000158806.13 | 1.37218617 | background | background | background | 3 |
| Gene | Chromosome Position | Expression Value | Annotation 1 | Annotation 2 | Annotation 3 | Annotation 4 | Annotation 5 |
|------|---------------------|------------------|--------------|--------------|--------------|--------------|--------------|
| ENSG00000158815.10 | 4.191072301 | S | S | S | 4 |
| ENSG00000158825.5 | -1.120234753 | background | background | S | 3 |
| ENSG00000158874.11 | -5.186797926 | S | background | background | 5 |
| ENSG00000159164.9 | 2.661390465 | S | S | S | 4 |
| ENSG00000159212.12 | 2.481832569 | background | NA | S | 5 |
| ENSG00000159307.18 | -1.801864464 | background | background | 4 | 3 |
| ENSG00000159314.11 | 1.478972068 | S | background | 5 | 4 |
| ENSG00000159374.17 | 3.780672922 | S | S | background | 4 |
| ENSG00000159388.5 | 1.64104316 | NA | background | 4 | 4 |
| ENSG00000159556.9 | 2.080544674 | S | S | S | 5 |
| ENSG00000159650.8 | -4.074378626 | S | S | S | 4 |
| ENSG00000159674.11 | 2.05636423 | S | S | S | 3 |
| ENSG00000159713.10 | 5.490503625 | background | background | S | 5 |
| ENSG00000159753.13 | 4.144902995 | S | NA | NA | 4 |
| ENSG00000159842.14 | 1.214901779 | S | S | background | 2 |
| ENSG00000160161.9 | 4.198628905 | background | background | 5 | 4 |
| ENSG00000160179.18 | 1.568139108 | S | background | 5 | 3 |
| ENSG00000160188.9 | 1.499862156 | background | background | S | 4 |
| ENSG00000160211.15 | -1.22196098 | S | S | S | 4 |
| ENSG00000160219.11 | 1.51551031 | S | background | S | 4 |
| ENSG00000160223.16 | 1.174916994 | background | background | S | 4 |
| ENSG00000160271.14 | 1.016257016 | S | background | S | 3 |
| ENSG00000160326.13 | 2.194370481 | S | S | S | 4 |
| ENSG00000160360.12 | 3.192043546 | S | background | S | 4 |
| ENSG00000160593.18 | 3.978330085 | background | background | S | 3 |
| ENSG00000160712.12 | -1.068307845 | background | S | S | 3 |
| ENSG00000160716.5 | 2.018363259 | S | S | S | 3 |
| ENSG00000160741.16 | 1.034720337 | S | background | S | 4 |
| ENSG00000160818.16 | -1.075460404 | S | background | S | 3 |
| ENSG00000160868.14 | 1.536366341 | S | S | S | 5 |
| ENSG00000160870.12 | 2.525436 | S | background | background | S | 4 |
| ENSG00000160957.12 | 1.365617063 | S | background | background | S | 4 |
| ENSG00000160999.10 | 1.60344921 | S | background | background | S | 3 |
| ENSG00000161031.12 | -3.092080999 | 4 | S | background | 4 |
| ENSG00000161180.10 | 3.779431993 | background | background | S | 4 |
| ENSG00000161249.20 | 1.554670931 | NA | background | S | 4 |
| ENSG00000161509.13 | 1.973509298 | 4 | S | background | S | 3 |
| ENSG00000161544.9 | 1.522029188 | background | S | background | S | 4 |
| ENSG00000161642.17 | 1.037027223 | background | background | S | 4 |
| ENSG00000161653.10 | -1.475232454 | S | background | background | S | 4 |
| Gene ID    | Value     | Background | Background | Background | Score |
|-----------|-----------|------------|------------|------------|-------|
| ENSG00000161682.14 | 1.807423761 | background | background | background | 4     |
| ENSG00000161692.17 | 1.069631087 | 5          | background | background | 4     |
| ENSG00000161714.11 | 1.018792842 | 5          | background | background | 4     |
| ENSG00000161996.18 | 1.456952749 | 5          | NA         | background | 4     |
| ENSG00000162004.16 | 1.951822974 | background | background | background | 5     |
| ENSG00000162078.11 | 2.681324391 | background | background | background | 4     |
| ENSG00000162188.5  | 2.556877295 | background | background | background | 5     |
| ENSG00000162194.12 | 1.10540952  | background | background | background | 4     |
| ENSG00000162267.12 | 1.178333334 | background | background | background | 3     |
| ENSG00000162341.16 | -1.190957077| 5          | background | background | 2     |
| ENSG00000162365.11 | -2.38944088 | 5          | background | background | 4     |
| ENSG00000162366.7  | 1.761304167 | background | background | background | 4     |
| ENSG00000162390.17 | 1.40197143  | 5          | background | background | 5     |
| ENSG00000162391.11 | 1.816381326 | 5          | background | background | 4     |
| ENSG00000162398.11 | -1.709510864| background | background | background | 4     |
| ENSG00000162426.14 | 2.001919014 | 4          | background | background | 4     |
| ENSG00000162458.12 | 2.105010115 | 4          | 5          | 5          | 3     |
| ENSG00000162526.6  | 2.35964303  | NA         | background | background | 3     |
| ENSG00000162572.20 | 1.346296617 | 5          | background | background | 4     |
| ENSG00000162591.15 | 1.641940237 | background | background | background | 5     |
| ENSG00000162614.18 | 1.708294782 | background | background | background | 4     |
| ENSG00000162688.16 | -1.506016623| 5          | background | background | 4     |
| ENSG00000162722.8  | 5.667621797 | background | background | background | 5     |
| ENSG00000162733.16 | 1.115145911 | 4          | background | background | 3     |
| ENSG00000162745.10 | 2.291930971 | 5          | background | background | 4     |
| ENSG00000162772.16 | 1.088576477 | background | background | background | 5     |
| ENSG00000162814.10 | 2.1075285638| background | background | background | 3     |
| ENSG00000162897.14 | 1.846252736 | background | background | background | 4     |
| ENSG00000162931.11 | 2.60099453  | background | background | background | 4     |
| ENSG00000162999.12 | -1.150085304| background | background | background | 4     |
| ENSG00000163013.11 | 2.245376176 | 5          | NA         | background | 5     |
| ENSG00000163032.11 | -1.901643874| background | background | background | 2     |
| ENSG00000163053.10 | 1.668079661 | NA         | background | background | 5     |
| ENSG00000163071.10 | 1.91269658  | 4          | 5          | 4          | 4     |
| ENSG00000163083.5  | 1.616465419 | NA         | background | background | 4     |
| ENSG00000163132.6  | 1.035468668 | NA         | background | background | 4     |
| ENSG00000163141.18 | 2.282962027 | 5          | background | background | 5     |
| ENSG00000163239.12 | 2.736070782 | 5          | 5          | 3          | 3     |
| ENSG00000163319.10 | -1.131953212| background | background | background | 4     |
| ENSG00000163328.13 | -1.722432465| background | background | background | 3     |
| ENSG00000163393.12 | 1.761087925 | background | background | background | 5     |
| Gene Symbol       | Fold Change | ANOVA p-value | Adj. FDR p-value | Background | Count | Size |
|-------------------|-------------|---------------|------------------|-----------|-------|------|
| ENSG00000163430.11| 4.456625608 |               |                  | background | 5     | 5    |
| ENSG00000163492.14| 3.165106661 |               |                  | background | 4     | 3    |
| ENSG00000163501.6 | 1.117253471 |               |                  | NA        | 5     | 4    |
| ENSG00000163520.13| 4.58342007  |               |                  | background | 5     | 2    |
| ENSG00000163522.79| 1.941513188 |               |                  | background | 4     | 3    |
| ENSG00000163554.8 | 1.958395908 |               |                  | background | 3     |      |
| ENSG00000163565.18| -1.03030633 |               |                  | background | 4     |      |
| ENSG00000163581.13| -2.00106451 |               |                  | background | 5     |      |
| ENSG00000163596.16| 1.46222626  |               |                  | background | 5     |      |
| ENSG00000163624.5 | 1.18870436  |               |                  | 3         | 3     |      |
| ENSG00000163686.14| -1.24286045 |               |                  | 5         | 3     |      |
| ENSG00000163702.18| -1.30301444 |               |                  | 4         | 4     |      |
| ENSG00000163734.4 | 1.09459344  |               |                  | background | 5     |      |
| ENSG00000163739.4 | 1.94718568  |               |                  | background | 5     |      |
| ENSG00000163827.12| -1.74730600 |               |                  | background | 5     |      |
| ENSG00000163884.3 | -1.05302230 |               |                  | background | 3     |      |
| ENSG00000163888.3 | 1.52770967  |               |                  | 5         | 5     |      |
| ENSG00000163931.15| -1.05260372 |               |                  | background | 4     |      |
| ENSG00000163975.11| 1.98932358  |               |                  | 3         | 3     |      |
| ENSG00000163995.19| 1.35941856  |               |                  | 5         |      |      |
| ENSG00000164007.10| 3.45970314  |               |                  | background | 4     |      |
| ENSG00000164070.11| -1.28828236 |               |                  | 5         |      |      |
| ENSG00000164082.14| 3.87161736  |               |                  | background | 2     |      |
| ENSG00000164089.8 | -1.28410726 |               |                  | background | 4     |      |
| ENSG00000164120.13| -1.07963907 |               |                  | background | 5     |      |
| ENSG00000164169.12| -1.26097063 |               |                  | background | 5     |      |
| ENSG00000164171.10| -1.12690966 |               |                  | background | 3     |      |
| ENSG00000164236.11| 2.46834736  |               |                  | background | 3     |      |
| ENSG00000164291.16| -1.28315876 |               |                  | background | 4     |      |
| ENSG00000164294.13| 3.56534291  |               |                  | background | 5     |      |
| ENSG00000164398.12| 1.32165670  |               |                  | background | 3     |      |
| ENSG00000164404.8 | 2.16071394  |               |                  | background | 5     |      |
| ENSG00000164619.8 | 1.130374137 |               |                  | background | 3     |      |
| ENSG00000164626.8 | -1.42028634 |               |                  | background | 4     |      |
| ENSG00000164659.14| 1.05501120  |               |                  | background | 3     |      |
| ENSG00000164663.14| 1.00328069  |               |                  | background | 4     |      |
| ENSG00000164692.17| 2.755074977 |               |                  | background | 4     |      |
| ENSG00000164694.16| 4.28337645  |               |                  | background | 5     |      |
| ENSG00000164825.3 | -1.69923801 |               |                  | background | 4     |      |
| ENSG00000164841.4 | -1.29343635 |               |                  | background | 3     |      |
| Ensembl Accession | Gene Name | Expression Value | Expression Type | Chromosome | Start Position | End Position |
|-------------------|-----------|------------------|-----------------|------------|----------------|--------------|
| ENSGO0000164850.14 | 197       | -1.292869865     | NA              | 5          | 4              | 5            |
| ENSGO0000164885.12 | 197       | -1.025021692     | background      | 5          | 4              | 4            |
| ENSGO0000164933.11 | 197       | -1.363040417     | background      | 5          | 5              | 4            |
| ENSGO0000164953.15 | 197       | -1.210848232     | background      | 4          | background     | 3            |
| ENSGO0000164989.16 | 197       | 1.033883245      | background      | 5          | 4              | 3            |
| ENSGO0000165072.9  | 197       | 4.196859002      | background      | 5          | background     | 4            |
| ENSGO0000165097.13 | 197       | -2.213581893     | background      | 5          | 4              | 4            |
| ENSGO0000165124.17 | 197       | 4.050031109      | 4              | 5          | 5              | 4            |
| ENSGO0000165194.15 | 197       | 1.450681684      | background      | 5          | 3              | 3            |
| ENSGO0000165272.14 | 197       | -1.013305675     | background      | 5          | 4              | 4            |
| ENSGO0000165338.16 | 197       | 1.338086866      | 4              | background | 4              | 4            |
| ENSGO0000165449.11 | 197       | 5.476803567      | background      | 4          | background     | 4            |
| ENSGO0000165617.14 | 197       | 5.120381559      | background      | 4          | background     | 4            |
| ENSGO0000165633.12 | 197       | 2.213202639      | NA             | background | background     | 3            |
| ENSGO0000165828.14 | 197       | -1.032738862     | 5              | background | 4              | 4            |
| ENSGO0000165887.11 | 197       | 2.770424254      | NA             | 4          | background     | 4            |
| ENSGO0000165917.9  | 197       | 2.319479563      | 5              | background | 5              | 4            |
| ENSGO0000165959.11 | 197       | -1.33384853      | 5              | 5          | 3              | 3            |
| ENSGO0000166073.10 | 197       | 2.970495749      | 5              | background | background     | 3            |
| ENSGO0000166145.14 | 197       | 3.297175326      | background      | 5          | 4              | 4            |
| ENSGO0000166147.13 | 197       | 3.044514005      | background      | 4          | 3              | 3            |
| ENSGO0000166165.12 | 197       | 2.168597682      | 5              | background | background     | 4            |
| ENSGO0000166183.15 | 197       | -3.37786052      | 5              | background | 4              | 4            |
| ENSGO0000166183.15 | 197       | -3.37786052      | background      | 4          | 4              | 4            |
| ENSGO0000166206.14 | 197       | 2.728475376      | background      | 5          | 3              | 3            |
| ENSGO0000166268.10 | 197       | 2.581125751      | 5              | background | background     | 4            |
| ENSGO0000166292.11 | 197       | -3.040897926     | NA             | background | background     | 4            |
| ENSGO0000166347.18 | 197       | -1.060959461     | background      | 4          | background     | 3            |
| ENSGO0000166391.14 | 197       | -1.682417385     | 5              | background | 5              | 4            |
| ENSGO0000166402.8  | 197       | 2.157237367      | 5              | background | 4              | 3            |
| ENSGO0000166405.14 | 197       | -2.857668724     | background      | 5          | 4              | 4            |
| ENSGO0000166450.12 | 197       | 3.625682402      | 5              | background | 4              | 4            |
| ENSGO0000166482.11 | 197       | 4.36559437       | background      | 4          | 4              | 4            |
| ENSGO0000166508.17 | 197       | 1.565732891      | background      | 5          | background     | 3            |
| ENSGO0000166510.13 | 197       | -1.113728498     | background      | 4          | background     | 4            |
| ENSGO0000166532.15 | 197       | 2.738370498      | 5              | 5          | background     | 4            |
| ENSGO0000166592.11 | 197       | 3.34325618       | background      | 5          | 5              | 5            |
| ENSGO0000166670.9  | 197       | -3.534240807     | 5              | background | background     | 5            |
| ENSGO0000166704.11 | 197       | 1.087755429      | 5              | background | 4              | 4            |
| ENSGO0000166736.11 | 197       | -4.06777483      | 5              | background | background     | 5            |
| ENSGO0000166741.7  | 197       | -2.573295366     | 5              | background | background     | 4            |
| Gene ID            | Value       | Background | Start | End |
|-------------------|-------------|------------|-------|-----|
| ENSG00000166813.14| 1.85755825  | background | 5     |     |
| ENSG00000166816.13| -1.16501447 | background | 5     |     |
| ENSG00000166845.13| 1.751394548 | background | 5     |     |
| ENSG00000166851.14| 1.4333695   | background | 5     |     |
| ENSG00000166924.8 | 1.779572779 | background | 5     |     |
| ENSG00000166974.12| -1.002994357| background | 4     |     |
| ENSG00000167100.14| 2.51960445  | background | 5     |     |
| ENSG00000167103.11| 2.145596867 | background | 4     |     |
| ENSG00000167105.7 | -2.28224535 | background | 5     |     |
| ENSG00000167114.12| -1.222538635| background | 5     |     |
| ENSG00000167123.18| 2.35462789  | background | 5     |     |
| ENSG00000167272.10| -1.027724359| background | 5     |     |
| ENSG00000167281.18| 3.389138584 | background | 4     |     |
| ENSG00000167393.17| 1.005636923 | background | 3     |     |
| ENSG00000167460.14| 1.008221159 | background | 4     |     |
| ENSG00000167525.13| 1.877097748 | background | 5     |     |
| ENSG00000167549.18| 2.00194548  | background | 5     |     |
| ENSG00000167552.13| 1.271645037 | background | 4     |     |
| ENSG00000167553.15| -1.469834636| background | 4     |     |
| ENSG00000167588.12| -1.33768463 | background | 5     |     |
| ENSG00000167595.14| 1.024259631 | background | 4     |     |
| ENSG00000167601.11| 1.018247253 | background | 5     |     |
| ENSG00000167604.14| 1.555589113 | background | 4     |     |
| ENSG00000167615.16| 1.624307416 | background | 4     |     |
| ENSG00000167642.12| 1.883304502 | background | 4     |     |
| ENSG00000167693.16| 2.061223727 | background | 3     |     |
| ENSG00000167702.11| 1.100124916 | background | 5     |     |
| ENSG00000167723.14| 2.620144643 | background | 4     |     |
| ENSG00000167767.13| 1.802987771 | background | 4     |     |
| ENSG00000167771.5 | 4.036628654 | background | 4     |     |
| ENSG00000167772.11| -1.560880009| background | 4     |     |
| ENSG00000167880.7 | 3.671856328 | background | 4     |     |
| ENSG00000167964.12| 1.471397979 | background | 4     |     |
| ENSG00000167968.12| 1.547559918 | background | 5     |     |
| ENSG00000167992.12| 1.62878443 | background | 3     |     |
| ENSG00000168140.4 | 1.269950911 | background | 3     |     |
| ENSG00000168209.4 | 1.08155452 | background | 5     |     |
| ENSG00000168216.10| -1.220470048| background | 4     |     |
| ENSG00000168237.17| -1.741747688| background | 5     |     |
| ENSG00000168275.14| -1.003324296| background | 4     |     |
| Gene ID          | Log2 Fold Change | Std Dev | Background | Major Group |
|-----------------|------------------|---------|------------|-------------|
| ENSG00000168280.12 | 2.90344784       | 5       | background | 3           |
| ENSG00000168298.6  | 2.676492059      | NA      | background | 5           |
| ENSG00000168386.18 | 1.396410402      | background | background | 4           |
| ENSG00000168389.17 | -1.478957397     | 5       | background | 4           |
| ENSG00000168453.14 | 3.04041326       | 5       | 5          | 4           |
| ENSG00000168477.17 | 1.414969803      | 5       | 5          | 3           |
| ENSG00000168487.17 | 1.225349526      | 5       | background | 4           |
| ENSG00000168502.17 | 1.577963637      | 4       | background | 3           |
| ENSG00000168538.15 | -1.134194585     | 5       | background | 4           |
| ENSG00000168539.3  | 4.95331144       | NA      | background | 4           |
| ENSG00000168542.14 | 2.252707763      | background | background | 5           |
| ENSG00000168564.5  | 1.02756425       | background | background | background |
| ENSG00000168671.9  | 1.101154462      | background | background | 5           |
| ENSG00000168676.10 | 4.713330712      | background | background | 3           |
| ENSG00000168824.14 | 2.684032581      | background | background | 5           |
| ENSG00000168874.12 | 1.198681381      | NA      | background | 4           |
| ENSG00000168916.15 | 1.242839864      | 5       | 5          | background |
| ENSG00000168928.12 | 3.607446179      | 5       | 5          | 4           |
| ENSG00000168961.16 | 3.297018746      | background | background | 5           |
| ENSG00000169181.12 | 2.953283366      | background | background | 5           |
| ENSG00000169184.5  | 1.698373575      | NA      | 4          | 4           |
| ENSG00000169245.5  | 4.143955173      | background | background | background |
| ENSG00000169246.16 | 1.043092405      | background | background | 5           |
| ENSG00000169255.13 | 1.718449616      | background | background | 5           |
| ENSG00000169359.13 | -1.099904586     | background | background | 5           |
| ENSG00000169418.9  | 1.519005845      | 5       | 5          | 4           |
| ENSG00000169429.10 | 1.952582204      | background | background | background |
| ENSG00000169432.14 | 1.98793816       | background | background | 5           |
| ENSG00000169594.13 | 4.145095655      | 5       | 5          | 4           |
| ENSG00000169604.19 | 1.248696053      | background | background | 5           |
| ENSG00000169607.12 | 2.422593731      | background | background | 5           |
| ENSG00000169710.8  | 1.274031031      | 3       | 5          | 4           |
| ENSG00000169715.14 | -2.474795235     | NA      | background | background |
| ENSG00000169752.16 | -1.37786132      | background | background | 4           |
| ENSG00000169783.12 | 7.54635663      | NA      | background | 5           |
| ENSG00000169851.15 | 1.576040164     | NA      | 5          | background |
| ENSG00000169860.6  | 1.531424313      | 5       | 5          | 5           |
| ENSG00000169896.16 | 2.6137192       | 5       | background | 2           |
| ENSG00000169914.5  | 1.197513161      | background | NA       | 5           |
| ENSG00000169981.10 | -1.200810667     | background | 5          | background |
| ENSG00000169981.10 | -1.200810667     | background | 5          | background |
| 197 | ENSG00000169992.9 | 1.289769009 | background | 5 | 4 | 4 |
|-----|------------------|-------------|------------|---|---|---|
| 197 | ENSG0000017006.11 | -1.924426152 | background | 5 | 5 | 4 |
| 197 | ENSG00000170214.4 | -1.970462068 | NA         | 5 | background | 4 |
| 197 | ENSG00000170325.14 | 1.594842073 | background | background | 4 |
| 197 | ENSG00000170345.9 | 2.42770947  | NA         | 5 | background | 5 |
| 197 | ENSG00000170382.11 | 1.622173454 | NA         | 5 | 5 | 3 |
| 197 | ENSG00000170390.15 | 1.648904239 | 5          | 5 | 5 | 4 |
| 197 | ENSG00000170442.11 | 5.087424045 | background | background | 5 |
| 197 | ENSG00000170458.13 | -2.151540243 | NA         | background | 5 |
| 197 | ENSG00000170500.12 | 1.241108691 | background | 4 | 4 | 4 |
| 197 | ENSG00000170509.11 | -2.524802117 | background | background | 5 |
| 197 | ENSG00000170561.12 | 2.656677959 | background | background | background | 5 |
| 197 | ENSG00000170577.7 | 4.505197258 | NA         | background | 4 | 4 |
| 197 | ENSG00000170667.14 | 2.739830919 | 5          | background | 4 | 3 |
| 197 | ENSG00000170801.9 | 3.500570503 | background | background | 5 | 3 |
| 197 | ENSG00000170837.2 | 2.599521996 | NA         | NA         | background | 5 |
| 197 | ENSG00000170917.13 | -1.20536171 | background | background | background | 4 |
| 197 | ENSG00000170927.14 | 1.582375217 | 4          | background | 5 | 3 |
| 197 | ENSG00000170962.12 | 2.943254377 | 5          | background | 4 | 3 |
| 197 | ENSG00000170989.8 | -1.386058507 | NA         | 5 | 5 | 5 |
| 197 | ENSG00000171094.17 | 4.027412016 | 5          | background | 2 |
| 197 | ENSG00000171103.10 | -1.452004095 | background | background | background | 4 |
| 197 | ENSG00000171121.16 | 1.409712075 | background | background | background | 4 |
| 197 | ENSG00000171124.12 | 4.846320352 | 5          | 5 | background | 5 |
| 197 | ENSG00000171163.15 | 1.002017716 | background | background | background | 3 |
| 197 | ENSG00000171202.6 | -1.051652369 | background | background | background | 5 |
| 197 | ENSG00000171208.9 | 1.973803827 | background | background | 5 | 4 |
| 197 | ENSG00000171219.8 | 1.050669998 | 5          | NA         | 5 | 4 |
| 197 | ENSG00000171223.5 | 1.5312232   | NA         | background | 5 | 5 |
| 197 | ENSG00000171234.13 | 1.592438573 | background | background | background | 5 |
| 197 | ENSG00000171236.9 | -1.383820207 | NA         | 5 | 5 | 5 |
| 197 | ENSG00000171291.8 | 3.108455294 | background | background | background | 4 |
| 197 | ENSG00000171310.10 | 2.135658441 | background | 4 | 5 | 3 |
| 197 | ENSG00000171345.13 | 3.036370165 | NA         | background | background | 2 |
| 197 | ENSG00000171345.13 | 3.036370165 | background | background | background | 2 |
| 197 | ENSG00000171408.13 | -1.386080251 | 5          | background | 5 | 3 |
| 197 | ENSG00000171448.8 | 1.31548089  | NA         | background | background | 4 |
| 197 | ENSG00000171517.5 | -2.133824141 | 3          | background | background | 3 |
| 197 | ENSG00000171533.11 | 3.866204622 | background | 5 | background | 4 |
| 197 | ENSG00000171551.11 | 5.110875107 | 5          | background | 5 | 3 |
| 197 | ENSG00000171557.16 | -1.046129412 | background | background | background | 5 |
| Gene Symbol | Log2 Fold Change | Expression Level | Gene Symbol | Log2 Fold Change | Expression Level |
|-------------|-----------------|-----------------|-------------|-----------------|-----------------|
| ENSG00000171564.11 | -1.1153126 | background | ENSG00000171603.16 | 1.1389529 | background |
| ENSG00000171649.11 | 1.665807941 | 5 | ENSG00000171680.21 | 1.356927899 | 5 |
| ENSG00000171714.10 | -1.487857377 | 5 | ENSG00000171729.13 | 2.459976199 | background |
| ENSG00000171747.8 | 1.262102778 | 5 | ENSG00000171766.15 | 1.002640815 | background |
| ENSG00000171786.5 | 4.53128414 | 5 | ENSG00000171798.17 | 2.94320698 | 5 |
| ENSG00000171840.11 | -1.146846966 | 5 | ENSG00000172014.12 | 1.678246342 | background |
| ENSG00000172183.14 | 1.1384127 | background | ENSG00000172201.11 | 1.031139531 | background |
| ENSG00000172234.14 | 1.593592198 | 3 | ENSG00000172379.20 | 2.526421424 | 5 |
| ENSG00000172382.9 | 1.90596819 | 4 | ENSG00000172403.10 | -1.280810633 | 5 |
| ENSG00000172497.8 | 1.0759774 | 5 | ENSG00000172638.12 | 1.26811574 | background |
| ENSG00000172738.11 | 2.24358422 | background | ENSG00000172766.18 | 1.849336203 | background |
| ENSG00000172803.17 | 1.8510284 | 5 | ENSG00000172818.9 | 3.809644554 | 5 |
| ENSG00000172819.16 | 1.384904077 | 4 | ENSG00000172878.13 | -1.83796478 | background |
| ENSG00000172955.17 | -1.164143512 | background | ENSG00000172977.12 | 1.224724632 | 5 |
| ENSG00000173040.12 | 1.185580756 | 5 | ENSG00000173083.16 | -2.743707794 | background |
| ENSG00000173209.22 | 1.3282608 | 5 | ENSG00000173212.4 | -1.421803939 | background |
| ENSG00000173275.12 | 1.516372703 | background | ENSG00000173366.11 | 1.438383996 | 5 |
| ENSG00000173535.13 | 1.523751491 | 4 | ENSG00000173567.14 | -2.151389574 | background |
| ENSG00000173575.20 | 1.793025456 | 5 | ENSG00000173597.8 | -1.53895279 | background |
| ENSG00000173918.14 | 2.980235795 | 5 | ENSG00000173930.8 | -1.267469282 | background |
| ENSG00000173991.5 | 1.874316273 | NA | ENSG00000171564.11 | -1.1153126 | background |
| Gene Symbol                  | Value          | Other Values | CDS Region | CTG Region |
|-----------------------------|----------------|--------------|------------|------------|
| ENSG00000174130.12          | -1.419525415   | NA           | background | 5          |
| ENSG00000174307.6           | 2.559618352    | background   | background | 3          |
| ENSG00000174332.5           | 4.92746853     | 3            | background | 4          |
| ENSG00000174370.9           | 3.829407736    | 5            | 4          | 4          |
| ENSG00000174500.12          | 2.455273754    | 5            | 5          | 5          |
| ENSG00000174564.12          | 3.092970441    | 5            | background | 4          |
| ENSG00000174792.10          | 5.041281461    | NA           | background | 4          |
| ENSG00000174808.11          | 1.075680012    | 5            | background | 4          |
| ENSG00000174871.10          | 2.402970998    | 5            | background | 4          |
| ENSG00000174885.12          | -2.021067072   | 5            | NA         | NA         |
| ENSG00000174917.8           | -1.046567631   | background   | background | 3          |
| ENSG00000174938.14          | 3.242347779    | 5            | 5          | 4          |
| ENSG00000174939.10          | 1.565669727    | NA           | background | 4          |
| ENSG00000174992.7           | -1.060674484   | 5            | background | 5          |
| ENSG00000175040.5           | 2.337036485    | NA           | 5          | background | 4          |
| ENSG00000175084.11          | 2.092871319    | 5            | background | 5          |
| ENSG00000175115.11          | 1.273911835    | 5            | 5          | 3          |
| ENSG00000175130.6           | 1.827093175    | NA           | 5          | background | 5          |
| ENSG00000175155.8           | 1.01707404     | background   | 5          | 3          |
| ENSG00000175197.11          | 1.793422578    | background   | background | 4          |
| ENSG00000175264.7           | -3.547944825   | 5            | 5          | 4          |
| ENSG00000175265.17          | 2.045723815    | background   | NA         | 4          |
| ENSG00000175274.18          | 3.064447963    | 4            | 4          | 4          |
| ENSG00000175315.2           | 4.110513492    | NA           | 5          | background | 4          |
| ENSG00000175344.17          | 1.998104801    | background   | 5          | 2          |
| ENSG00000175356.12          | 3.986827257    | background   | 3          | background | 2          |
| ENSG00000175449.13          | -2.334895712   | background   | 5          | background | 4          |
| ENSG00000175482.8           | -1.11180375    | background   | 5          | 5          |
| ENSG00000175592.8           | 2.030169223    | NA           | background | 4          |
| ENSG00000175643.8           | 1.486044151    | NA           | background | 4          |
| ENSG00000175787.16          | 1.234656398    | background   | background | 4          |
| ENSG00000175920.16          | 2.435482635    | background   | 5          | 4          |
| ENSG00000175928.5           | 3.715900801    | NA           | 4          | background | 4          |
| ENSG00000176153.11          | -1.326537335   | NA           | background | 5          |
| ENSG00000176383.8           | 1.840287773    | background   | background | 4          |
| ENSG00000176401.5           | 1.498289837    | NA           | background | background |
| ENSG00000176563.9           | 1.541476861    | background   | 4          | 4          |
| ENSG00000176678.5           | 2.963447089    | NA           | background | 5          |
| ENSG00000176697.18          | 1.472825969    | NA           | background | 5          |
| ENSG00000176714.9           | -1.098119993   | NA           | background | 5          |
| ENSG00000176749.8           | 2.060430461    | NA           | background | 5          |
| Gene ID | ENSG00000176771.16 | Score | Background | Tissue 1 | Tissue 2 |
|---------|-------------------|-------|------------|----------|----------|
|         | -1.14798382       | 5     | background | 5        | 3        |
|         | 2.144639687       |       | background | 5        |          |
|         | 1.235291529       |       | background | 5        |          |
|         | 1.291628248       |       | background | 5        |          |
|         | -1.421649669      |       | background | 5        |          |
|         | 1.890522522       |       | background | 5        |          |
|         | 1.132022968       |       | background | 4        |          |
|         | 3.050739039       |       | background | 5        | 5        |
|         | 1.926527214       |       | background | 5        | 4        |
|         | 1.973560859       |       | background | 4        | 3        |
|         | -1.838300172      |       | background | 4        |          |
|         | 4.969356718       |       | background | 3        |          |
|         | 2.914104567       |       | background | 4        |          |
|         | 1.331660019       |       | background | 5        |          |
|         | 4.449048629       |       | background | 4        |          |
|         | 4.268310159       |       | background | 5        |          |
|         | 5.713732148       |       | background | 5        |          |
|         | -1.238511749      |       | background | 4        |          |
|         | 1.032361177       |       | background | 4        |          |
|         | 1.42661951        |       | background | 4        |          |
|         | 1.134322389       |       | background | 4        |          |
|         | 2.885755025       |       | background | 5        |          |
|         | 1.085121907       |       | background | 3        |          |
|         | 1.268666908       |       | background | 5        |          |
|         | -2.949237192      |       | background | 5        |          |
|         | 2.277256726       |       | background | 4        |          |
|         | -1.297038826      |       | background | 4        |          |
|         | 2.015499078       |       | background | 4        |          |
|         | 4.327356518       |       | background | 5        |          |
|         | 2.940995143       |       | background | 4        |          |
|         | 1.354384391       |       | background | 5        |          |
|         | 1.01813134        |       | background | 5        |          |
|         | 1.253794073       |       | background | 5        |          |
|         | -2.985363457      |       | background | 3        |          |
|         | -1.215469399      |       | background | 4        |          |
|         | -1.097828055      |       | background | 5        |          |
|         | 1.033659564       |       | background | 4        |          |
|         | 3.702499144       |       | background | 5        |          |
|         | 4.060090027       |       | background | 3        |          |
| 197 | ENSG00000179256.2 | -1.788895057 | NA | background | background | 5 |
| 197 | ENSG00000179299.16 | 2.555579295 | background | background | 5 | 4 |
| 197 | ENSG00000179304.16 | 1.821357264 | NA | 5 | 5 | 4 |
| 197 | ENSG00000179314.13 | -1.052034001 | 5 | background | 4 | 3 |
| 197 | ENSG00000179348.11 | 3.868935598 | background | background | 4 | 3 |
| 197 | ENSG00000179431.6 | 1.855646781 | NA | background | 5 | 5 |
| 197 | ENSG00000179477.9 | 3.227557051 | 5 | background | 5 | 4 |
| 197 | ENSG00000179542.15 | 2.515597832 | NA | background | 5 | 4 |
| 197 | ENSG00000179588.8 | 1.14638682 | 5 | background | 3 | 2 |
| 197 | ENSG00000179598.5 | 1.715291057 | 5 | background | 4 | 3 |
| 197 | ENSG00000179698.13 | 2.472090772 | 5 | background | 4 | 2 |
| 197 | ENSG00000179776.17 | 2.54407065 | 5 | background | 4 | 3 |
| 197 | ENSG00000179846.9 | 2.436080835 | NA | 5 | 4 | 4 |
| 197 | ENSG00000180061.9 | 2.378719409 | 5 | background | background | 3 |
| 197 | ENSG00000180071.19 | 1.970172116 | background | background | 4 | 4 |
| 197 | ENSG00000180089.5 | 1.316412354 | 5 | 5 | 5 | 4 |
| 197 | ENSG00000180353.10 | 2.494410834 | 4 | background | 5 | 4 |
| 197 | ENSG00000180592.16 | -1.04017406 | 5 | 5 | 4 | 4 |
| 197 | ENSG00000180611.6 | 1.04886298 | NA | 5 | background | 3 |
| 197 | ENSG00000180626.9 | 1.639842009 | NA | background | 5 | 5 |
| 197 | ENSG00000180773.14 | -1.486316113 | background | background | 4 | 4 |
| 197 | ENSG00000180875.4 | -2.16950989 | NA | 4 | 5 | 4 |
| 197 | ENSG00000180914.10 | 1.70215415 | 5 | background | 4 | 4 |
| 197 | ENSG00000180938.5 | -1.216169167 | NA | background | background | 4 | 4 |
| 197 | ENSG00000181016.9 | 1.210179912 | NA | background | background | 5 |
| 197 | ENSG00000181019.12 | -1.595882162 | background | 5 | 4 | 3 |
| 197 | ENSG00000181392.14 | 1.233690759 | background | background | 4 | 4 |
| 197 | ENSG00000181408.3 | 3.494994008 | NA | background | background | 5 |
| 197 | ENSG00000181409.11 | 2.2515448 | 5 | background | 5 | 4 |
| 197 | ENSG00000181418.7 | 2.912619789 | NA | background | 5 | 4 |
| 197 | ENSG00000181652.17 | -1.116693964 | background | background | background | 4 |
| 197 | ENSG00000181781.9 | -3.705429086 | NA | background | background | 4 |
| 197 | ENSG00000182013.17 | 2.942640492 | background | 5 | 5 | 5 |
| 197 | ENSG00000182022.17 | 1.575980169 | 5 | 5 | 4 | 3 |
| 197 | ENSG00000182199.10 | -1.131746544 | background | background | 4 | 4 |
| 197 | ENSG00000182218.9 | 2.200713673 | 5 | 5 | 4 | 3 |
| 197 | ENSG00000182240.15 | 3.026579017 | background | 5 | background | 3 |
| 197 | ENSG00000182264.8 | 3.403439159 | background | background | background | 4 |
| 197 | ENSG00000182308.6 | 3.676925053 | NA | background | background | 5 |
| 197 | ENSG00000182324.6 | 1.038338981 | background | background | 5 | 4 |
|     | ENSG00000182379.9 | 1.783861368 | NA | 4 | 4 | 4 |
|-----|------------------|-------------|----|---|---|---|
|     | ENSG00000182389.19 | 1.56119488  | background | background | background | 3 |
|     | ENSG00000182472.8 | 1.620495455 | 4 | 4 | 5 | 3 |
|     | ENSG00000182492.15 | 2.30121182  | 5 | 5 | 4 | 4 |
|     | ENSG00000182600.9 | 1.514104738 | NA | 5 | background | 4 |
|     | ENSG00000182636.5 | 1.629457282 | NA | background | background | background |
|     | ENSG00000182676.4 | 2.512499839 | background | 5 | 5 | 5 |
|     | ENSG00000182752.9 | 4.15732988  | 5 | 5 | background | 3 |
|     | ENSG00000182793.11 | -1.994877815 | background | background | background | 5 |
|     | ENSG00000183066.14 | 1.99699825  | background | background | background | 4 |
|     | ENSG00000183114.7 | 2.047802996 | NA | 5 | 5 | 5 |
|     | ENSG00000183186.7 | 3.068528149 | NA | background | background | 5 |
|     | ENSG00000183248.11 | 3.103698674 | background | background | 4 |
|     | ENSG00000183307.3 | 3.435243158 | NA | background | background | 4 |
|     | ENSG00000183317.16 | 3.57208297 | 4 NA | 4 | 2 |
|     | ENSG00000183336.8 | -1.038537732 | background | background | background | 4 |
|     | ENSG00000183401.11 | 1.277673787 | 5 | background | background | 4 |
|     | ENSG00000183496.5 | 2.091524691 | NA | 5 | background | 5 |
|     | ENSG00000183580.9 | 3.760417793 | NA | background | background | 5 |
|     | ENSG00000183598.3 | 2.35051321 | NA | NA | NA | background |
|     | ENSG00000183647.10 | 4.139489795 | background | 5 | 5 | 4 |
|     | ENSG00000183671.12 | 3.431036736 | background | background | background | 4 |
|     | ENSG00000183691.4 | 6.515412388 | NA | 5 | background | 4 |
|     | ENSG00000183722.7 | 1.664307547 | background | 5 | background | 4 |
|     | ENSG00000183763.8 | 1.431989709 | 5 | background | 5 | 4 |
|     | ENSG00000183770.5 | 4.511645156 | NA | background | 5 | 5 |
|     | ENSG00000183780.12 | 1.337494829 | background | background | background | 3 |
|     | ENSG00000183784.6 | -1.484405517 | NA | 5 | background | 5 |
|     | ENSG00000183943.5 | 1.172410138 | background | 5 | background | 3 |
|     | ENSG00000183971.6 | -1.456744989 | NA | NA | NA | 4 |
|     | ENSG00000184083.11 | 1.104677481 | 5 | background | 5 | 4 |
|     | ENSG00000184160.7 | 1.791518589 | NA | background | 5 | 4 |
|     | ENSG00000184163.3 | 3.073191981 | 4 | background | background | 4 |
|     | ENSG00000184166.2 | 1.207747676 | NA | NA | NA | 3 |
|     | ENSG00000184206.11 | 1.187081475 | background | background | 5 | 4 |
|     | ENSG00000184292.6 | 1.457179415 | NA | background | 5 | 5 |
|     | ENSG00000184304.14 | 1.069161338 | 5 | 5 | background | 3 |
| Ensembl | Transcript | Log2FoldChange | Galaxy | Background | Chromosome | Feature | FeatureType | FeatureValue |
|---------|------------|----------------|--------|------------|------------|---------|-------------|--------------|
| ENSG00000184368.15 | 1.589287114 | background | background | background | 3 |
| ENSG00000184635.15 | 2.096201009 | background | background | background | 3 |
| ENSG00000184786.5 | 2.473899942 | NA | background | 5 | 2 |
| ENSG00000184828.9 | 1.296647485 | NA | background | 5 | 3 |
| ENSG00000184916.8 | 2.026291731 | S | S | S | 3 |
| ENSG00000184925.11 | 1.418290262 | background | NA | NA | 3 |
| ENSG00000184949.15 | 2.105907816 | background | background | background | 3 |
| ENSG00000184985.16 | 1.937336952 | S | S | S | 3 |
| ENSG00000185038.14 | 2.406643277 | background | background | 2 |
| ENSG00000185101.12 | 4.311510482 | background | background | 3 |
| ENSG00000185112.5 | 1.263319419 | NA | 4 | 5 | 4 |
| ENSG00000185130.5 | 2.385799416 | NA | background | background | 2 |
| ENSG00000185198.11 | 6.424409255 | S | background | 4 |
| ENSG00000185291.11 | 2.993245687 | S | S | background | 3 |
| ENSG00000185339.8 | 1.064199639 | S | S | 4 | 3 |
| ENSG00000185386.14 | 1.227287152 | S | S | S | 4 |
| ENSG00000185467.7 | -1.376917657 | S | background | 4 |
| ENSG00000185499.16 | 4.551496912 | S | background | 5 |
| ENSG00000185513.14 | 1.875003656 | S | background | 4 |
| ENSG00000185522.8 | 1.185411736 | S | background | 4 |
| ENSG00000185559.13 | 3.935453809 | S | background | 4 |
| ENSG00000185561.9 | -1.041486728 | S | background | 4 |
| ENSG00000185563.11 | 1.807680615 | S | background | 3 |
| ENSG00000185633.10 | 3.448112591 | S | background | 5 | 5 |
| ENSG00000185668.7 | 3.793232907 | NA | background | 4 | 4 |
| ENSG00000185697.16 | 1.65581339 | S | background | 5 | 4 | 4 |
| ENSG00000185761.10 | 1.034053091 | S | background | 5 | 4 | 4 |
| ENSG00000185818.7 | 2.565249651 | NA | NA | 4 | 4 |
| ENSG00000185864.16 | 1.114736774 | S | background | 4 |
| ENSG00000185875.12 | -1.660937119 | S | background | 5 | 5 |
| ENSG00000185880.12 | -1.102435315 | S | background | 5 | 5 |
| ENSG00000185946.15 | 1.738920399 | S | background | 5 |
| ENSG00000185955.4 | 3.28856908 | NA | 5 | 5 | 5 |
| ENSG00000186081.11 | -3.988293876 | S | background | 5 |
| ENSG00000186185.13 | 2.382279859 | S | background | 5 | 3 |
| ENSG00000186205.12 | -1.303328894 | S | background | 4 | 4 |
| ENSG00000186310.9 | 3.520688252 | NA | 5 | background | 5 |
| ENSG00000186340.14 | 2.198255186 | 4 | background | background | 4 |
|------------------|-------------|---|------------|------------|---|
| ENSG00000186340.14 | 2.198255186 | 5 | background | background | 4 |
| ENSG00000186354.10 | 2.588282431 | background | background | 4 | 4 |
| ENSG00000186472.19 | 3.121652901 | 4 | background | 5 | 4 |
| ENSG00000186566.5 | 1.515066327 | NA | 5 | 5 | 5 |
| ENSG00000186577.12 | -1.007716628 | background | 4 | 5 | 4 |
| ENSG00000187024.14 | -1.602631813 | background | 4 | background | 3 |
| ENSG00000187048.12 | -2.0639046 | 5 | background | 5 | 4 |
| ENSG00000187134.13 | -1.665584127 | 5 | 5 | 5 | 4 |
| ENSG00000187144.11 | 5.102758922 | 5 | background | 4 | 4 |
| ENSG00000187193.8 | -1.972057251 | background | background | 5 | 4 |
| ENSG00000187243.16 | 1.316733414 | background | 5 | background | 2 |
| ENSG00000187244.10 | 1.656604239 | 5 | background | 5 | 4 |
| ENSG00000187266.13 | 1.432073598 | 5 | background | 5 | 4 |
| ENSG00000187288.10 | -1.972057251 | background | background | 4 | 4 |
| ENSG00000187391.19 | 3.140675866 | NA | background | background | background |
| ENSG00000187498.14 | 1.337951867 | 5 | background | 5 | 3 |
| ENSG00000187609.15 | 1.240257698 | 4 | background | background | 3 |
| ENSG00000187634.11 | 3.510160065 | 4 | background | background | 4 |
| ENSG00000187800.13 | 1.962101154 | 4 | 5 | 5 | 3 |
| ENSG00000187840.4 | -1.050355464 | NA | background | 4 | 3 |
| ENSG00000188015.9 | 1.554780313 | background | background | 5 | 4 |
| ENSG00000188130.13 | 1.963851446 | background | background | 5 | 3 |
| ENSG00000188157.14 | 1.508912899 | background | 5 | 5 | 3 |
| ENSG00000188229.5 | -1.500169386 | background | 5 | background | 5 |
| ENSG00000188257.10 | -2.72145763 | background | 5 | background | 4 |
| ENSG00000188263.10 | -2.72145763 | background | 5 | background | 4 |
| ENSG00000188290.10 | 1.605514492 | background | background | 5 | 3 |
| ENSG00000188375.4 | 1.071101719 | NA | background | background | background |
| ENSG00000188549.12 | 3.218153173 | background | background | 4 | 4 |
| ENSG00000188573.7 | 2.168765275 | NA | 4 | background | 4 |
| ENSG00000188601.8 | 2.049656353 | background | 4 | background | 4 |
| ENSG00000188613.6 | -1.365938137 | NA | background | 4 | 4 |
| ENSG00000188677.14 | 1.067783857 | background | 4 | 3 | 3 |
| ENSG00000188760.10 | 1.150197824 | background | 5 | 3 | 3 |
| ENSG00000188766.12 | 3.941163366 | 5 | background | 4 | 4 |
| ENSG00000188783.5 | 2.09967171 | 5 | 5 | 4 | 3 |
| ENSG00000188807.12 | 1.037739859 | 5 | background | 4 | 4 |
| ENSG00000188818.12 | 1.063193911 | 4 | 4 | 5 | 4 |
| ENSG00000188820.12 | 4.538680471 | background | background | 4 | 4 |
| Gene ID      | Value       | Background | Score | P-value | Count |
|-------------|-------------|------------|-------|---------|-------|
| ENSG0000018833.9 | -1.08941962 | background | 5     | background | 4     |
| ENSG00000188878.19 | 1.155164629 | background | background | NA | 4     |
| ENSG00000188981.10 | 1.52224631 | 4          | 4     | background | 4     |
| ENSG00000189030.9 | 4.645254975 | NA         | background | background | 4     |
| ENSG00000189056.13 | -1.46619792 | 3          | 5     | background | 3     |
| ENSG00000189120.4 | 2.025914073 | NA         | 4     | 4     | 4     |
| ENSG00000189195.11 | -1.03378283 | background | background | background | 4     |
| ENSG00000189292.15 | 4.001185858 | background | background | background | 5     |
| ENSG00000189350.12 | 1.852835054 | 5          | background | background | 5     |
| ENSG00000189367.14 | 3.178500483 | background | background | background | 4     |
| ENSG00000189409.13 | 3.248434115 | 5          | background | background | 5     |
| ENSG00000189431.7 | 3.073567069 | NA         | NA    | background | 4     |
| ENSG00000196116.7 | -1.76124676 | background | background | background | 4     |
| ENSG00000196118.11 | 1.768491641 | background | 5     | background | 4     |
| ENSG00000196139.13 | -1.183834709 | background | background | background | 4     |
| ENSG00000196155.12 | 3.470879059 | 5          | 5     | 5     | 4     |
| ENSG00000196208.13 | 1.137220658 | 5          | background | 4     | 2     |
| ENSG00000196218.12 | 5.289638719 | 5          | NA    | NA    | 3     |
| ENSG00000196218.12 | 5.289638719 | 4          | NA    | NA    | 3     |
| ENSG00000196230.12 | -1.143870909 | background | background | 5     | 5     |
| ENSG00000196338.12 | 2.045323779 | background | background | background | 4     |
| ENSG00000196358.10 | 2.151895876 | 5          | 5     | 4     | 3     |
| ENSG00000196372.12 | -1.342268841 | 5          | background | 4     | 4     |
| ENSG00000196378.11 | 1.18583251 | background | background | background | 4     |
| ENSG00000196388.8 | 1.32477344 | 4          | 4     | 5     | 4     |
| ENSG00000196407.11 | 1.306054975 | background | background | 4     | 3     |
| ENSG00000196436.8 | 1.158627777 | background | 4     | NA    | 4     |
| ENSG00000196526.10 | 1.750793252 | background | background | 3     | 3     |
| ENSG00000196542.8 | 1.834990164 | NA         | 4     | 5     | 4     |
| ENSG00000196549.10 | -1.111091919 | background | background | background | 3     |
| ENSG00000196550.10 | 2.198625747 | background | 4     | background | 4     |
| ENSG00000196557.12 | 1.298820757 | 4          | background | background | 3     |
| ENSG00000196584.2 | 1.655623539 | background | background | 5     | 4     |
| ENSG00000196611.4 | -3.121877655 | background | background | background | 4     |
| ENSG00000196620.9 | 2.337305485 | background | background | background | 4     |
| ENSG00000196735.11 | -1.560657578 | background | background | background | 3     |
| ENSG00000196747.4 | 1.0568994 | NA         | background | background | background |
| ENSG00000196792.11 | -1.05594014 | 4          | 5     | 5     | 3     |
| ENSG00000196890.4 | 2.38798395 | NA         | background | 5     | 5     |
| ENSG00000196924.14 | 1.991910076 | 5          | 5     | 3     | 5     |
| ENSG00000196950.13 | 1.248327818 | 5          | background | background | 3     |
| Gene ID   | Log2FoldChange | P-value | Adjusted P-value | Background | 
|-----------|----------------|---------|------------------|------------| 
| ENSG00000198542.13 | 2.531631437 | background | 4 | background | 4 |
| ENSG00000198556.13 | 1.130051876 | background | background | background | 4 |
| ENSG00000198590.11 | 3.223579144 | background | background | background | 4 |
| ENSG00000198650.10 | -1.01918542 | 5 | background | 5 | 5 |
| ENSG00000198680.4 | 1.092991238 | NA | 5 | background | 5 |
| ENSG00000198729.4 | 1.969961979 | NA | background | 5 | 4 |
| ENSG00000198736.11 | -1.03911179 | background | background | background | 4 |
| ENSG00000198754.5 | 1.305818244 | NA | background | 5 | 3 |
| ENSG00000198756.10 | 2.219435481 | background | 5 | background | 5 |
| ENSG00000198758.10 | 1.586071167 | 5 | background | background | 4 |
| ENSG00000198774.4 | 3.171345355 | NA | background | 4 | 4 |
| ENSG00000198829.6 | -2.134388885 | background | background | background | 5 |
| ENSG00000198832.10 | 1.967436831 | background | background | background | 4 |
| ENSG00000198835.3 | 4.078428953 | NA | background | 5 | 4 |
| ENSG00000198838.13 | 2.728732235 | 5 | background | background | 3 |
| ENSG00000198933.9 | 1.180766344 | 5 | 4 | 5 | 3 |
| ENSG00000198959.11 | -1.60193092 | 5 | 5 | 4 | 3 |
| ENSG00000203666.12 | -1.008300789 | background | background | background | 4 |
| ENSG00000203667.9 | -1.279457715 | background | 5 | background | 5 |
| ENSG00000203668.2 | 1.718131192 | NA | background | background | 4 |
| ENSG00000203697.11 | -3.354400915 | background | 5 | 4 | 3 |
| ENSG00000203722.7 | -1.112782959 | 5 | 5 | background | 4 |
| ENSG00000203811.1 | 2.332294467 | NA | background | 5 | 5 |
| ENSG00000203852.3 | 2.332294467 | NA | background | 5 | 5 |
| ENSG00000204052.4 | 1.510573232 | 4 | 4 | background | 4 |
| ENSG00000204060.7 | 2.108378814 | NA | NA | NA | 3 |
| ENSG00000204175.5 | 3.045822236 | NA | background | 4 | 3 |
| ENSG00000204176.13 | 1.278564303 | 5 | background | background | 4 |
| ENSG00000204179.6 | 2.022235236 | 4 | background | background | 4 |
| ENSG00000204220.11 | -1.213374016 | background | background | background | 4 |
| ENSG00000204248.10 | 3.937466115 | 5 | 5 | 5 | 3 |
| ENSG00000204305.13 | 1.46618039 | background | background | background | 5 |
| ENSG00000204334.7 | -2.722075961 | background | background | background | 4 |
| ENSG00000204335.3 | 1.491656499 | NA | background | 5 | 5 |
| ENSG00000204387.12 | 1.007626308 | background | background | background | 4 |
| ENSG00000204388.6 | 1.105293794 | NA | background | 5 | 5 |
| ENSG00000204390.9 | 1.140200615 | NA | background | background | 4 |
| ENSG00000204397.7 | 1.200876263 | NA | background | background | 4 |
| ENSG00000204444.10 | -2.209372523 | 5 | 5 | background | 5 |
| ENSG00000204524.6 | 1.182743987 | background | NA | NA | 3 |
| ENSG00000204538.3 | 4.010536564 | NA | background | 5 | 5 |
| Gene ID          | Value   | Type | Background | STR | lineage |
|-----------------|---------|------|------------|-----|---------|
| ENSG00000213886.3 | 2.503769245 | NA   | background | 4   |         |
| ENSG00000213903.8 | 1.002712281 | NA   | background | 4   |         |
| ENSG00000213920.8 | -1.124348181 | 5    | background | 5   |         |
| ENSG00000213937.3 | 1.109291318 | NA   | background | 4   |         |
| ENSG00000213983.11 | 1.043518214 | 4    | background | 4   |         |
| ENSG00000213996.12 | 1.148151379 | 5    | background | 4   |         |
| ENSG00000213999.15 | 1.576112061 | 5    | background | 3   |         |
| ENSG00000214021.15 | 1.174078453 | 5    | background | NA  |         |
| ENSG00000214140.10 | 2.13279386  | NA   | background | 4   |         |
| ENSG00000214193.10 | 1.169632568 | 5    | background | 4   |         |
| ENSG00000214226.8 | 1.094217088 | background | 4   |         |
| ENSG00000214279.13 | 2.253203535 | NA   | background | 4   |         |
| ENSG00000214413.7 | -1.012972548 | NA  | background | 4   |         |
| ENSG00000214860.4 | 1.39064904  | NA   | background | 4   |         |
| ENSG00000215218.3 | 1.24543817  | NA   | background | 4   |         |
| ENSG00000215375.6 | 1.126542475 | 5    | background | 3   |         |
| ENSG00000215440.11 | 1.38582779  | background | 3   |         |
| ENSG00000215529.12 | 4.18883461  | background | NA  |         |
| ENSG00000215784.5 | 3.10997126  | background | 4   |         |
| ENSG00000215790.6 | 1.094135428 | 5    | background | 4   |         |
| ENSG00000216588.8 | 1.682292234 | 5    | background | 4   |         |
| ENSG00000218336.8 | -1.631280907 | 5    | background | 3   |         |
| ENSG00000219438.8 | 1.385158553 | background | 5   |         |
| ENSG00000219481.10 | 1.003817905 | background | 5   |         |
| ENSG00000219626.8 | 1.20784322  | background | NA  | NA   |         |
| ENSG00000220008.3 | 4.328856025 | NA   | background | 5   |         |
| ENSG00000220205.8 | 2.04135147  | 5    | 5          | 4   |         |
| ENSG00000221829.9 | 1.0374594   | 4    | background | 5   |         |
| ENSG00000221869.4 | -1.136095397 | NA  | 4          | background | 4   |
| ENSG00000221887.5 | 2.240491799 | NA   | 5          | 4   |         |
| ENSG00000221890.3 | 1.173091234 | background | 5   | 5   |         |
| ENSG00000221995.5 | 1.716737754 | NA   | 4          | 4   |         |
| ENSG00000223573.6 | 2.912024765 | background | 5   |       |         |
| ENSG00000223609.7 | -1.521052337 | background | 5   |         |
| ENSG00000223953.5 | 2.992775768 | 5    | background | 5   |         |
| ENSG00000224420.3 | 2.441166425 | NA   | 4          | background | 4   |
| ENSG00000225556.1 | 1.253302038 | NA   | 3          | 5   | 3       |
| ENSG00000225614.2 | 3.977101476 | NA   | NA         | 4   |         |
| ENSG00000225828.1 | 2.424328996 | NA   | background | 4   |         |
| ENSG00000226124.6 | -1.046108676 | background | 4   |         |
| ENSG00000226174.6 | 2.548297407 | NA   | background | 4   |         |
| Gene ID | Description | Expression | Background | Value 1 | Value 2 | Value 3 |
|--------|-------------|------------|------------|---------|---------|---------|
| ENSG00000226733.2 | -2.667462839 | NA | background | 5 | 4 |
| ENSG00000226887.7 | -2.273503263 | background | 5 | background | 4 | 4 |
| ENSG00000228278.3 | -1.669527219 | 5 | background | 4 | 4 | 3 |
| ENSG00000229314.5 | -1.588653703 | 5 | background | 4 | 3 | 5 |
| ENSG00000232434.2 | 1.707380737 | NA | NA | 4 |
| ENSG00000233493.3 | -1.107846367 | NA | background | background | 5 | 4 |
| ENSG00000233822.4 | 1.091470757 | NA | NA | background | 5 | 4 |
| ENSG00000233954.6 | 1.736425573 | NA | background | 5 |
| ENSG0000023444.9 | 1.037442181 | background | 5 | 3 |
| ENSG00000235162.8 | 1.866171495 | 5 | 3 |
| ENSG00000237172.3 | 1.287182431 | NA | 3 | 3 |
| ENSG00000237441.9 | 1.227211044 | 4 | 5 | 4 |
| ENSG00000239713.8 | 1.30492986 | background | background | 4 |
| ENSG00000239732.3 | 6.59898915 | NA | 4 | 5 | 4 |
| ENSG00000240053.8 | 1.73538253 | NA | 5 | 4 |
| ENSG00000240204.2 | 2.907853005 | NA | background | background | 4 |
| ENSG00000240230.5 | 1.033061446 | background | background | 5 | 3 |
| ENSG00000241106.6 | 3.376281141 | background | background | 4 | 3 |
| ENSG000002411224.7 | -1.243606215 | background | background | background | 4 |
| ENSG00000241421.1 | -4.185471776 | NA | NA | NA | 4 |
| ENSG00000241399.6 | -1.345089901 | NA | background | 5 | 4 |
| ENSG00000241404.6 | 2.234353611 | background | background | 5 | 5 |
| ENSG00000241852.9 | 1.409931536 | 5 | background | 4 | 3 |
| ENSG00000242265.5 | 1.48543901 | NA | 4 | 4 | 3 |
| ENSG00000242689.2 | 1.468021933 | background | 5 | 4 | 3 |
| ENSG00000242852.6 | 1.47298297 | background | background | 4 | 4 |
| ENSG00000243207.6 | 1.364809346 | background | NA | NA | 4 |
| ENSG00000243444.7 | -1.450420304 | background | background | 4 | 2 |
| ENSG00000243477.5 | 1.32042388 | NA | background | background | 4 |
| ENSG00000243708.10 | 2.207886689 | background | background | 4 |
| ENSG00000243943.9 | 1.36502719 | 5 | background | 4 | 5 |
| ENSG00000244067.2 | 1.063940254 | background | background | 4 |
| ENSG00000244165.1 | 1.159165089 | NA | background | 5 | 5 |
| ENSG00000244187.7 | -1.01336824 | background | background | 5 | 4 |
| ENSG00000244242.1 | 4.509449202 | NA | background | 4 | 4 |
| ENSG00000244274.7 | 1.15234902 | NA | background | 5 | 4 |
| ENSG00000244414.6 | -1.279989639 | NA | background | 4 |
| ENSG00000244474.5 | 1.344251035 | background | background | 4 | 4 |
| ENSG00000244486.8 | 2.733256405 | background | 4 | 5 | 3 |
| ENSG00000244607.5 | 1.449480795 | 5 | background | 5 | 4 |
| ENSG00000244694.7 | 3.346187629 | background | background | background | 4 |
| Gene ID | Score | Stratum 1 | Stratum 2 | Stratum 3 | Stratum 4 |
|---------|-------|-----------|-----------|-----------|-----------|
| ENSG00000244734.3 | -1.48300895 | background | background | background | background |
| ENSG00000244752.2 | 6.218268216 | background | 5 | background | 4 |
| ENSG00000248144.5 | -1.607280762 | background | background | background | 4 |
| ENSG00000248167.7 | 5.670559727 | 5 | background | background | 4 |
| ENSG00000248485.1 | -1.507503043 | background | 5 | 4 | 4 |
| ENSG00000248592.7 | -1.115023498 | background | background | 5 | 4 |
| ENSG00000248672.5 | -4.945384256 | background | background | NA | 4 |
| ENSG00000249141.1 | -7.264151579 | background | NA | background | 4 |
| ENSG00000249967.1 | -1.933490456 | background | 5 | 3 |
| ENSG00000249992.1 | 2.29760495 | NA | background | background | 5 |
| ENSG00000250067.11 | 2.172544302 | background | background | 4 |
| ENSG00000250091.2 | -1.205465107 | NA | background | 5 | 5 |
| ENSG00000250305.8 | -1.41504123 | background | background | 5 | 4 |
| ENSG0000025044.4 | 6.001907713 | 5 | NA | background | 4 |
| ENSG00000250486.3 | 3.039710911 | NA | background | background | background |
| ENSG00000250644.3 | 2.417234355 | 5 | background | 5 | 3 |
| ENSG00000251246.1 | 5.065240438 | background | background | 5 | 3 |
| ENSG00000251247.10 | 1.366573767 | NA | background | background | 4 |
| ENSG00000251369.8 | 1.232128007 | background | background | 5 | 4 |
| ENSG00000253304.1 | 1.74105812 | NA | 5 | 5 | 4 |
| ENSG00000253305.2 | 1.20993706 | 5 | NA | 5 | 4 |
| ENSG00000253313.5 | -1.557594163 | NA | background | background | 4 |
| ENSG00000254206.5 | 1.286371141 | background | background | 4 |
| ENSG00000254901.7 | -1.372861247 | background | 5 | 5 | 3 |
| ENSG00000256162.2 | -1.234439657 | NA | background | 5 | 5 |
| ENSG00000256463.8 | 2.847874727 | 3 | NA | 5 | 3 |
| ENSG00000258311.5 | 1.328717353 | background | background | 5 | 5 |
| ENSG00000258674.5 | 2.463781431 | background | background | 5 | 4 |
| ENSG00000258839.3 | 1.411197636 | NA | background | background | 4 |
| ENSG00000258986.6 | 3.879268163 | background | 5 | background | 3 |
| ENSG00000259417.2 | -1.335358263 | background | background | 4 | 4 |
| ENSG00000260007.2 | 1.805879758 | NA | background | background | 4 |
| ENSG00000260230.2 | 1.715086324 | background | NA | 5 | 4 |
| ENSG00000260272.1 | 1.743575403 | background | 5 | 4 |
| ENSG00000260342.2 | -1.155545302 | background | background | NA | 5 |
| ENSG00000261115.5 | 4.332598124 | NA | background | 5 | 3 |
| ENSG00000261150.2 | 1.531669766 | background | background | 4 |
| ENSG00000261594.3 | 2.128225927 | NA | background | 5 | 5 |
| ENSG00000262246.5 | 1.051097498 | 5 | background | 4 | 3 |
| ENSG00000262406.2 | 4.335254217 | background | background | background | 4 |
| ENSG00000262484.1 | 2.863393404 | NA | background | 4 | 4 |
| Gene ID           | Log2 Ratio  | Annotation 1 | Annotation 2 | Annotation 3 | Annotation 4 |
|------------------|-------------|--------------|--------------|--------------|--------------|
| ENSG00000262655.3 | 2.929435926 | background   | 5            | background   | 3            |
| ENSG00000263020.6 | 2.973727008 | background   | 5            | background   | 4            |
| ENSG00000263528.7 | -1.475610869| background   | 5            | background   | 4            |
| ENSG00000263874.2 | 3.323354381 | NA           | background   | 5            | 5            |
| ENSG00000265190.6 | 5.342532096 | background   | background   | 5            | 5            |
| ENSG00000265590.9 | -5.324987418| NA           | NA           | NA           | 3            |
| ENSG00000266086.1 | 1.608619547 | background   | background   | 4            | 4            |
| ENSG00000266714.7 | -2.730673886| background   | 4            | background   | 3            |
| ENSG00000266964.5 | 1.897263203 | background   | 4            | background   | 4            |
| ENSG00000267281.2 | 1.510237744 | background   | 3            | background   | 5            |
| ENSG00000267561.2 | -1.598189864| background   | background   | 4            | 4            |
| ENSG00000268163.1 | 3.684064855 | background   | 4            | background   | 4            |
| ENSG00000269547.1 | 5.562840335 | background   | NA           | background   | 3            |
| ENSG00000269720.2 | 3.44715459 | background   | NA           | NA           | 4            |
| ENSG00000269964.2 | -1.53373351 | 5            | background   | 5            | 4            |
| ENSG00000270168.2 | 1.974537028 | NA           | background   | background   | 3            |
| ENSG00000270885.1 | -2.531055411| background   | 4            | background   | 4            |
| ENSG00000270898.5 | 1.925151885 | background   | 5            | background   | 4            |
| ENSG00000271824.1 | 1.778431294 | NA           | background   | background   | 3            |
| ENSG00000272899.3 | 1.515653558 | NA           | 5            | 4            | 4            |
| ENSG00000273045.5 | 1.23200997 | background   | 5            | background   | 5            |
| ENSG00000273047.1 | 2.263917071 | NA           | NA           | NA           | 4            |
| ENSG00000273154.3 | 1.306297415 | 3            | NA           | NA           | 2            |
| ENSG00000273238.2 | 5.286096648 | NA           | background   | 4            | 4            |
| ENSG00000273604.1 | 1.51132321 | NA           | 5            | 5            | 4            |
| ENSG00000274267.1 | 6.721750609 | NA           | NA           | NA           | 5            |
| ENSG00000274276.4 | -1.396270061| 5            | background   | background   | 3            |
| ENSG00000274290.2 | 1.557327688 | NA           | background   | background   | 5            |
| ENSG00000274897.2 | 1.226011293 | NA           | background   | 5            | 4            |
| ENSG00000275342.4 | 1.405890943 | 5            | 5            | 5            | 4            |
| ENSG00000275713.2 | 2.161636111 | NA           | NA           | 5            | 5            |
| ENSG00000276289.4 | -4.444163233 | 5            | background   | 5            | 5            |
| ENSG00000276966.2 | 2.776604859 | NA           | background   | 5            | 5            |
| ENSG00000277075.2 | 1.015729369 | NA           | background   | 5            | 5            |
| ENSG00000277363.4 | 2.00757835  | 4            | background   | 4            | 3            |
| ENSG00000277481.1 | 2.421929907 | 5            | NA           | NA           | 3            |
| ENSG00000277775.1 | 2.841786891 | NA           | NA           | 5            | 5            |
| ENSG00000277972.1 | -1.142703182| NA           | background   | 5            | 5            |
| ENSG00000278129.1 | 1.036303075 | background   | background   | 4            | 4            |
| Gene ID   | Log2 Fold Change | Background | Background | Background | Background |
|-----------|------------------|------------|------------|------------|------------|
| ENSG00000278619.4 | -1.136468077    | 5          | background | background | 4          |
| ENSG00000280165.1  | -1.49774497   | NA         | 4          | 5          | 4          |
| ENSG00000282301.1  | 1.995175142   | 5          | background | background | 4          |
| ENSG00000282936.1  | 2.063874524   | NA         | NA         | NA         | 5          |
| ENSG00000282988.1  | 1.179460384   | background | background | 2          | 2          |
| ENSG00000283297.1  | 4.658861192   | background | background | background | 4          |
| ENSG00000283765.1  | 2.100626771   | background | background | 5          | 4          |
| ENSG00000284505.1  | 1.513058609   | 4          | 4          | 4          | 2          |
| ENSG00000001617.11 | -1.018552913  | background | background | 5          | 3          |
| ENSG00000004468.12 | -1.28186572   | background | background | 4          | 4          |
| ENSG00000004766.15 | -1.029696595  | background | background | 3          |            |
| ENSG00000005339.14 | 1.139540059   | background | 5          | 5          | 3          |
| ENSG00000005448.16 | -1.017512349  | background | background | 5          |            |
| ENSG00000005471.15 | -1.126924029  | 5          | 5          | background | 4          |
| ENSG00000005961.17 | 2.990504644   | 5          | background | 5          | 4          |
| ENSG00000006015.17 | -1.001082645  | 5          | background | background | 5          |
| ENSG00000006534.15 | -1.090805355  | 5          | background | 4          | 3          |
| ENSG00000007216.14 | -2.35878353   | 5          | 5          | 5          | 4          |
| ENSG00000007314.12 | 4.356405141   | 5          | background | 4          | 3          |
| ENSG00000007402.11 | 1.675499062   | 4          | NA         | 5          | 2          |
| ENSG00000007944.14 | 1.416239483   | background | background | background | 4          |
| ENSG00000008735.13 | 2.576782495   | background | background | 4          | 3          |
| ENSG00000008853.16 | 2.065813875   | 4          | 5          | 5          | 3          |
| ENSG00000009694.13 | -1.289762631  | 4          | background | 5          | 4          |
| ENSG00000009950.15 | -1.090459679  | 3          | background | 5          | 3          |
| ENSG00000010379.15 | -1.454407409  | 5          | background | background | 4          |
| ENSG00000011426.10 | -1.284877216  | background | background | background | 4          |
| ENSG00000013016.15 | -1.03678759   | background | background | 4          | 4          |
| ENSG00000013588.7  | -1.272002068  | 4          | 5          | 4          | 4          |
| ENSG00000017427.15 | -1.791209326  | 5          | 5          | 4          | 3          |
| ENSG00000021461.16 | -1.111521662  | 5          | NA         | NA         | 4          |
| ENSG00000021826.14 | -1.902444582  | background | background | background | 4          |
| ENSG00000024422.11 | -1.02891621   | background | 5          | 4          | 3          |
| ENSG00000026025.15 | -1.073445171  | background | 5          | background | 4          |
| ENSG00000029363.16 | 1.264277478   | background | background | 5          |            |
| ENSG00000034693.14 | -1.374725163  | background | background | 5          |            |
| ENSG00000039537.13 | -1.194750729  | 5          | background | background | 4          |
| ENSG00000047457.13 | -1.841934806  | 5          | background | background | 4          |
| ENSG00000048342.15 | -1.028287249  | 5          | background | background | 3          |
| ENSG00000048392.11 | 1.097158973   | background | background | background | 4          |
| ENSG          | 198     | -1.336713559 | 5 | background | 5 | 3 |
|--------------|--------|--------------|---|------------|---|---|
| ENSG000000055208.18 | -1.033686726 | 5 | background | background | 3 |
| ENSG000000063180.8 | 1.902049155 | 5 | 5 | background | 4 |
| ENSG000000065911.11 | 1.005003552 | background | background | 5 | 4 |
| ENSG000000066422.4 | 1.184417533 | background | 5 | 5 | 4 |
| ENSG000000067445.20 | -1.152608874 | background | background | background | 4 |
| ENSG000000068028.17 | 2.096304523 | 5 | background | 4 | 4 |
| ENSG000000068831.18 | -2.214896147 | NA | NA | NA | 5 |
| ENSG000000068885.14 | -1.200878533 | background | background | background | 4 |
| ENSG000000068976.13 | 2.06093609 | background | 5 | 5 | 4 |
| ENSG000000069188.16 | -3.17351159 | S | NA | 4 | 3 |
| ENSG000000069482.6 | 1.01224582 | background | 4 | background | 4 |
| ENSG000000069493.14 | -1.691696143 | background | background | 4 | 3 |
| ENSG000000070031.3 | 3.911132744 | NA | NA | NA | 5 |
| ENSG000000072182.12 | 3.815638218 | 5 | background | 4 | 3 |
| ENSG000000072315.3 | -1.118684397 | background | 4 | 5 | 3 |
| ENSG000000073734.8 | -1.601488486 | background | background | 5 | 4 |
| ENSG000000073737.16 | -1.436234949 | background | background | background | 4 |
| ENSG000000074211.13 | 1.153033265 | 5 | background | background | 3 |
| ENSG000000074219.13 | -1.040188533 | 4 | 5 | 4 | 4 |
| ENSG000000074660.15 | -1.055279028 | 5 | background | 5 | 3 |
| ENSG000000074706.13 | 6.456216943 | background | background | 4 | 3 |
| ENSG000000074935.13 | 1.010999844 | background | background | background | 4 |
| ENSG000000075218.18 | 1.863859 | background | 5 | background | 3 |
| ENSG000000075340.22 | 2.526626302 | background | background | 4 | 3 |
| ENSG000000076258.9 | -1.48210628 | background | background | 5 | 3 |
| ENSG000000077616.10 | -1.13260707 | background | 4 | background | 4 |
| ENSG000000078403.16 | 1.036889742 | 5 | 5 | 5 | 3 |
| ENSG000000079557.4 | -1.594516176 | 5 | background | background | 4 |
| ENSG000000080007.7 | 1.551693741 | background | background | background | 4 |
| ENSG000000080573.6 | -1.328332686 | 5 | background | 5 | 3 |
| ENSG000000080709.14 | -1.24220412 | background | background | background | 4 |
| ENSG000000080910.11 | -1.030789386 | NA | background | background | 4 |
| ENSG000000081041.8 | -1.377068939 | background | 4 | background | 4 |
| ENSG000000081386.12 | 1.10882228 | background | 5 | background | 4 |
| ENSG000000081665.13 | 1.094297197 | 5 | background | 5 | 4 |
| ENSG000000082196.20 | -1.319498073 | background | background | background | 3 |
| ENSG000000082684.14 | -3.003514877 | 5 | 5 | background | 3 |
| ENSG000000083807.9 | -1.046933283 | background | background | background | 4 |
| ENSG000000087206.16 | 1.109608296 | 5 | background | background | 4 |
| ENSG000000087250.8 | -2.214896147 | NA | 5 | 5 | 4 |
| Gene ID       | Value         | Background | 5 | 5 | 3 | 3 |
|--------------|---------------|------------|---|---|---|---|
| ENSG00000105650.21 | 1.784655227   | background | 5 | 5 | 3 | 3 |
| ENSG00000105771.13 | 1.007890267   | background | 4 | 4 | 5 | 4 |
| ENSG00000105792.19 | -1.135514132  | background | 5 | 5 | 4 | 4 |
| ENSG00000106003.12 | -1.40394826    | background | 4 | 4 | 4 | 4 |
| ENSG00000106701.11 | 1.02020455     | background | 5 | 5 | 4 | 4 |
| ENSG00000106804.7  | -1.096713379   | background | 5 | 5 | 4 | 4 |
| ENSG00000106948.16 | -1.089406367   | background | 4 | 4 | 3 | 3 |
| ENSG00000106976.20 | -2.071381513   | background | 5 | 5 | 3 | 3 |
| ENSG00000107201.9  | -1.021392734   | background | 5 | 5 | 4 | 4 |
| ENSG00000107242.17 | 2.21061017     | background | 5 | 5 | 4 | 4 |
| ENSG00000107485.15 | 3.550389778    | background | 4 | 5 | 3 | 3 |
| ENSG00000107518.16 | -1.192469272   | background | 5 | 5 | 4 | 4 |
| ENSG00000107562.16 | -1.156258189   | background | 5 | 5 | 2 | 2 |
| ENSG00000107821.14 | 1.700760384    | background | 5 | 5 | 4 | 4 |
| ENSG00000107831.12 | 3.510051452    | background | 5 | 5 | 4 | 4 |
| ENSG00000108242.12 | -1.208739582   | background | 5 | 5 | 4 | 4 |
| ENSG00000110848.21 | 1.095672196    | background | 5 | 5 | 4 | 4 |
| ENSG000001108691.9 | -1.375349089   | background | 5 | 5 | 4 | 4 |
| ENSG000001108813.10 | -2.488643885   | background | 5 | 5 | 3 | 3 |
| ENSG000001109063.14 | 1.484413518    | background | 5 | 5 | 4 | 4 |
| ENSG000001109321.10 | 1.512700431    | background | 5 | 5 | 4 | 4 |
| ENSG000001109927.9 | 2.650027172    | NA         | NA | NA | 3 | 3 |
| ENSG000001110076.18 | 1.860993844    | background | 5 | 5 | 5 | 2 |
| ENSG000001110436.11 | -2.115771047   | background | 5 | 5 | 3 | 3 |
| ENSG000001110721.11 | 1.248678035    | background | 4 | 4 | 4 | 4 |
| ENSG000001111665.11 | -1.319562938   | background | 5 | 5 | 4 | 4 |
| ENSG000001111700.12 | -1.746675227   | background | 5 | 5 | 4 | 4 |
| ENSG000001111713.2 | -1.038292162   | background | 5 | 5 | 4 | 4 |
| ENSG000001111879.18 | 1.129895052    | background | 5 | 5 | 4 | 4 |
| ENSG000001112029.9 | 2.051593753    | background | 5 | 5 | 4 | 4 |
| ENSG000001112096.16 | -1.0525837     | background | 5 | 5 | 4 | 4 |
| ENSG000001112561.17 | 1.150744973    | background | 5 | 5 | 3 | 3 |
| ENSG000001112877.7  | 1.545357005    | background | 5 | 5 | 4 | 4 |
| ENSG000001112893.9  | -1.223069772   | background | 5 | 5 | 4 | 4 |
| ENSG000001112902.11 | -1.848271242   | background | 5 | 5 | 2 | 2 |
| ENSG000001112972.14 | -1.105251514   | background | 5 | 5 | 4 | 4 |
| ENSG000001112981.4  | -2.285249344   | background | 5 | 5 | 4 | 4 |
| ENSG000001113262.14 | 2.702687593    | background | 5 | 5 | 4 | 4 |
| ENSG000001113361.12 | -1.003489162   | background | 5 | 4 | 4 | 4 |
| ENSG000001113361.12 | -1.003489162   | background | 5 | 4 | 4 | 4 |
| ENSG00000113369.8 | 1.8509023 | background | background | background | 3 |
|-------------------|-----------|------------|------------|------------|---|
| ENSG00000113494.16 | -1.323467503 | 5 | background | background | 4 |
| ENSG00000113600.10 | -1.031541576 | background | 5 | background | 4 |
| ENSG00000113657.12 | -1.223564564 | 4 | background | background | 3 |
| ENSG00000113758.13 | -1.317629347 | 4 | 5 | background | 4 |
| ENSG00000113946.3 | -1.619221753 | background | 5 | background | 3 |
| ENSG00000114270.17 | 2.23498289 | 5 | background | 5 | 2 |
| ENSG00000114349.9 | -2.06645587 | background | 4 | 4 | 4 |
| ENSG00000114757.18 | 2.65255184 | background | 4 | 5 | 3 |
| ENSG00000114854.7 | 2.323276912 | background | background | background | 4 |
| ENSG00000115112.7 | 1.846729554 | 5 | background | background | 4 |
| ENSG00000115163.14 | 4.875824944 | background | background | 5 | background | 3 |
| ENSG00000115221.10 | -1.041001753 | background | background | background | 3 |
| ENSG00000115380.19 | -1.12113246 | 5 | background | background | 4 |
| ENSG00000115525.17 | -1.162788518 | background | background | background | 5 | 4 |
| ENSG00000115556.13 | 1.72632013 | 5 | 5 | background | 4 |
| ENSG00000115844.10 | 3.008503683 | background | 4 | 5 | 4 |
| ENSG00000116741.7 | -1.035931547 | background | background | background | 5 |
| ENSG00000116748.21 | 5.141187651 | background | background | background | 4 |
| ENSG00000116774.11 | -1.138154761 | 5 | background | background | 4 |
| ENSG00000116785.13 | -1.172818645 | NA | background | background | 4 |
| ENSG00000117013.14 | 2.55461209 | 5 | background | 5 | 3 |
| ENSG00000117245.12 | 3.216139352 | 5 | background | 5 | 3 |
| ENSG00000117834.12 | -1.161758405 | 5 | background | 5 | 4 |
| ENSG00000118194.18 | 2.532374075 | background | background | background | 3 |
| ENSG00000118257.16 | -1.284651068 | 5 | background | background | 3 |
| ENSG00000118298.10 | 1.497577509 | 4 | 5 | 5 | 4 |
| ENSG00000118520.14 | -1.131099732 | 5 | background | background | 5 |
| ENSG00000118620.12 | 1.052355749 | background | 5 | background | 4 |
| ENSG00000119042.16 | 1.161071194 | 5 | background | 5 | 4 |
| ENSG00000119737.5 | 1.367290151 | NA | background | background | 5 |
| ENSG00000119844.15 | 1.040503005 | background | 5 | background | 4 |
| ENSG00000120437.8 | -1.00582215 | background | 5 | background | 4 |
| ENSG00000120498.13 | -1.804515893 | background | NA | background | 3 |
| ENSG00000120875.8 | 1.75310425 | background | 5 | 5 | 4 |
| ENSG00000121068.13 | 3.04470238 | background | background | 5 | 4 |
| ENSG00000121486.11 | -1.297575129 | 5 | background | 5 | 3 |
| ENSG00000121743.3 | 1.101878797 | NA | background | 5 | 4 |
| ENSG00000121769.7 | 1.21753316 | background | background | 5 | 4 |
| ENSG00000121931.15 | 1.696839024 | 5 | background | background | 4 |
| ENSG00000122121.10 | -1.062038734 | 5 | 5 | 5 | 3 |
| Gene ID          | Value         | Strain | Strain 1 | Strain 2 | Strain 3 | Strain 4 | Strain 5 |
|-----------------|--------------|--------|----------|----------|----------|----------|----------|
| ENSG00000122420.9 | -1.244320333 | NA     | background | background | background | 3        |
| ENSG00000122786.19 | -1.352018549 | background | background | background | 3        |
| ENSG00000122787.14 | -1.038092891 | background | background | background | 3        |
| ENSG00000122863.5 | 1.335127922  | 4      | background | 5        |
| ENSG00000123066.7 | 1.179538659  | 4      | background | 5        |
| ENSG00000123095.5 | 3.053005049  | background | background | 4        |
| ENSG00000123136.14 | 1.542973569  | 5      | background | 5        |
| ENSG00000123342.15 | -1.001399804 | background | background | 4        |
| ENSG00000123700.4 | -1.548459914 | NA     | background | 5        |
| ENSG00000123999.4 | 1.785935555  | NA     | background | 3        |
| ENSG00000124159.15 | 2.791954849  | NA     | background | 4        |
| ENSG00000124171.8 | 1.326435556  | background | 4        |
| ENSG00000124215.16 | -1.327363183 | background | background | 4        |
| ENSG00000124251.10 | 1.512803283  | 5      | background | 5        |
| ENSG00000124635.8 | 1.082916879  | NA     | NA       | NA       | 4        |
| ENSG00000124713.5 | -1.684661644 | background | background | background | 4        |
| ENSG00000124785.8 | -1.138668101 | background | 4        |
| ENSG00000124875.9 | -1.304057018 | background | 5        |
| ENSG00000125144.13 | -1.082061883 | NA     | 5        |
| ENSG00000125508.3 | 1.970547345  | background | background | 4        |
| ENSG00000125531.6 | 5.081528443  | NA     | background | 4        |
| ENSG00000125551.18 | -1.12162295  | background | background | 4        |
| ENSG00000126368.5 | 4.619445544  | 5      | 5        |
| ENSG00000126705.13 | 1.19467495   | background | 5        |
| ENSG00000126759.13 | 2.266747479  | 5      | background | 5        |
| ENSG00000127528.5 | 1.603793919  | background | background | 5        |
| ENSG00000127585.11 | 2.590448024  | 5      | background | 4        |
| ENSG00000127863.15 | -1.054411985 | background | background | 1        |
| ENSG00000128284.19 | -1.116098114 | background | background | 3        |
| ENSG00000129159.7 | -5.054832028 | 4      | 4        |
| ENSG00000129194.7 | 1.400697094  | NA     | 5        |
| ENSG00000129521.13 | -1.317401974 | background | background | 4        |
| ENSG00000129749.3 | 2.821944936  | 5      | 5        |
| ENSG00000130173.13 | 1.056789929  | 5      | background | 4        |
| ENSG00000130222.10 | 1.035276526  | background | background | background |
| ENSG00000130413.15 | -1.541965098 | background | 5        |
| ENSG00000130427.2 | -3.344191848 | 5      | 4        |
| ENSG00000130513.6 | 2.965427841  | NA     | background | 3        |
| ENSG00000130518.16 | 2.159401527  | 4      | background | 4        |
| ENSG00000130649.9 | -1.20624533  | 5      | background | 3        |
| ENSG00000130711.3 | 2.360551211  | background | 5        |


| Gene ID       | Log2 Fold Change | p-value  | Status        | Background Ratio | Count |
|--------------|------------------|----------|---------------|------------------|-------|
| ENSG00000130997.16 | -1.581965035     | NA       | background    | 3                | 3     |
| ENSG00000131080.14  | 1.580927821      | 4        | background    | 3                | 3     |
| ENSG00000131152.4   | 1.565876823      | 4        | NA            | background       | 3     |
| ENSG00000131409.12  | 1.824057111      | 5        | 5             | 5                | 3     |
| ENSG00000131471.6   | 1.179051249      | background | background    | background       | 5     |
| ENSG00000131480.8   | 1.026759295      | background | background    | background       | 4     |
| ENSG00000131482.9   | 1.058037077      | background | background    | background       | 5     |
| ENSG00000131652.13  | 1.263488135      | 5        | background    | background       | 4     |
| ENSG00000131711.14  | -1.196506139     | 5        | 5             | 5                | 3     |
| ENSG00000131910.4   | 1.042699891      | NA       | background    | 4                | 4     |
| ENSG00000131944.9   | 1.093096422      | 5        | 5             | 5                | 5     |
| ENSG00000132326.11  | 1.274181635      | 5        | 5             | 4                | 4     |
| ENSG00000132639.12  | -1.10903814      | background | 5             | 5                | 5     |
| ENSG00000132749.10  | 3.689369128      | 5        | 5             | 3                | 3     |
| ENSG00000132855.4   | -1.018427106     | background | background    | background       | 5     |
| ENSG00000133111.3   | 1.371950723      | NA       | background    | 5                | 5     |
| ENSG00000133256.12  | -1.524430998     | 5        | background    | 4                | 4     |
| ENSG00000133812.15  | 1.721335486      | 5        | background    | 3                | 3     |
| ENSG00000134201.10  | -1.095213488     | 5        | background    | 4                | 4     |
| ENSG00000134240.11  | -1.089069485     | 5        | background    | 4                | 4     |
| ENSG00000134321.11  | 1.420499116      | background | background    | 4                | 4     |
| ENSG00000134339.8   | -1.147616934     | background | background    | 4                | 4     |
| ENSG00000134389.9   | -1.302759965     | NA       | background    | 5                | 5     |
| ENSG00000134538.2   | -1.487760019     | 5        | background    | 4                | 4     |
| ENSG00000134986.13  | -1.241131144     | background | background    | 3                | 3     |
| ENSG00000135094.10  | 1.723824389      | 5        | 4             | 5                | 3     |
| ENSG00000135218.17  | -1.269466162     | background | background    | 4                | 4     |
| ENSG00000135373.12  | 1.984254885      | background | background    | 4                | 4     |
| ENSG00000135407.10  | 2.008560164      | 5        | 5             | NA               | 4     |
| ENSG00000135519.6   | 3.356473329      | 5        | 5             | 3                | 3     |
| ENSG00000135679.22  | 1.28264964       | background | background    | 4                | 4     |
| ENSG00000135837.15  | 1.005456763      | background | 4             | 5                | 3     |
| ENSG00000136040.8   | -1.095038536     | background | background    | 5                | 3     |
| ENSG00000136098.16  | -1.163989985     | background | background    | 4                | 4     |
| ENSG00000136490.8   | -1.6304485       | background | 5             | 4                | 4     |
| ENSG00000136535.14  | 4.680013649      | background | background    | 5                | 3     |
| ENSG00000136689.18  | -1.329867498     | background | background    | 4                | 4     |
| ENSG00000136826.14  | 1.047736117      | 5        | background    | 5                | 5     |
| ENSG00000136883.13  | -1.069556949     | 5        | background    | 4                | 3     |
| ENSG00000137203.10  | 2.237400072      | 5        | background    | 5                | 3     |
| ENSG00000137204.14  | -1.102370363     | 5        | background    | 5                | 4     |
| Gene Accession | Log2 Fold Change | Adj.P.Value | Chromosome | Strand |
|---------------|-----------------|-------------|------------|--------|
| ENSG00000137727.12 | 1.103840258 | 5 | background | background | 4 |
| ENSG00000137809.16 | -1.233165484 | 5 | background | background | 3 |
| ENSG00000137812.19 | -1.008277724 | background | background | 5 | 4 |
| ENSG00000137834.14 | 1.9492265 | NA | 5 | 5 | 4 |
| ENSG00000137941.16 | -1.1426035 | 5 | background | background | 4 |
| ENSG00000137968.16 | -1.253823424 | 5 | background | background | 3 |
| ENSG00000137996.12 | -1.08655524 | background | 5 | 4 | 4 |
| ENSG00000138002.14 | -1.054331569 | 5 | background | background | 4 |
| ENSG00000138075.11 | -1.24520326 | 5 | background | background | 4 |
| ENSG00000138639.17 | -1.301091952 | background | background | 5 | 3 |
| ENSG00000138759.18 | -1.357939759 | 4 | background | background | 4 | 2 |
| ENSG00000138769.10 | -1.372789302 | background | 4 | 5 | 4 |
| ENSG00000138778.11 | -2.028730712 | background | background | background | 4 |
| ENSG00000138892.11 | 5.990243058 | 5 | NA | NA | 4 |
| ENSG00000139269.2 | -1.087674602 | NA | background | 5 | 5 |
| ENSG00000139540.11 | -1.126634191 | 5 | 5 | background | 4 |
| ENSG00000139547.7 | -1.217456917 | 5 | 5 | background | 4 |
| ENSG00000139629.15 | -1.128833468 | 5 | background | background | 5 | 4 |
| ENSG00000139800.8 | 3.073577326 | NA | 5 | background | 4 |
| ENSG00000139890.9 | 2.469116395 | 5 | background | 5 | 3 |
| ENSG00000140287.10 | 2.345623891 | background | background | background | 4 |
| ENSG00000140368.12 | 2.453955931 | S | 5 | 4 | 5 | 2 |
| ENSG00000140488.15 | -1.727885024 | background | 5 | 5 | 3 |
| ENSG00000140505.6 | 1.094436939 | 5 | background | 5 | 5 |
| ENSG00000140993.10 | 2.793127977 | NA | 5 | background | 5 |
| ENSG00000141040.14 | 1.182787998 | background | background | background | 4 |
| ENSG00000141337.12 | -1.161309447 | background | background | 5 | 3 |
| ENSG00000141338.13 | -1.018219879 | background | background | background | 3 |
| ENSG00000141485.16 | -1.088057349 | background | 5 | 4 | 3 |
| ENSG00000141639.11 | 1.948806555 | background | 5 | 4 | 3 |
| ENSG00000141644.17 | 1.103526978 | background | background | background | 4 |
| ENSG00000141934.9 | 1.305757248 | 5 | 4 | 5 | 3 |
| ENSG00000142173.14 | 2.702468448 | background | background | 5 | 4 |
| ENSG00000142273.10 | -1.078579388 | 5 | background | background | 4 |
| ENSG00000142528.15 | 1.272402396 | background | 5 | 5 | 4 |
| ENSG00000142549.9 | 1.441820933 | NA | 5 | 2 |
| ENSG00000142552.7 | -1.052708634 | background | background | 5 | 4 |
| ENSG00000142583.17 | 5.33768243 | 5 | 5 | 5 | 4 |
| ENSG00000142609.17 | -2.825457328 | 5 | background | background | 4 |
| ENSG00000142661.18 | 1.944626271 | 5 | 5 | 5 | 4 |
| ENSG00000143257.11 | -1.003819471 | background | 5 | 4 | 4 |
| Ensembl Gene ID | log2 Fold Change | Value | Background | Blast Hits |
|-----------------|-----------------|-------|------------|------------|
| ENSG00000160870.12 | -1.165124446 | 5 | background | background | 4 |
| ENSG00000160999.10 | 1.303760412 | 5 | background | background | 3 |
| ENSG00000161180.10 | 3.934726277 | 4 | 5 | background | 3 |
| ENSG00000161544.9 | 1.553608921 | 5 | background | background | 4 |
| ENSG00000161896.11 | 1.259102515 | 5 | background | background | 4 |
| ENSG00000162069.14 | 2.628469295 | 5 | background | background | 4 |
| ENSG00000162344.3 | 2.117669118 | 4 | 4 | background | 4 |
| ENSG00000162366.7 | -1.197270924 | background | background | background | 4 |
| ENSG00000162390.17 | 1.160611721 | 5 | background | background | 3 |
| ENSG00000162591.15 | -1.056173611 | 5 | 2 | background | 2 |
| ENSG00000162688.16 | -1.016050649 | 5 | background | background | 4 |
| ENSG00000162692.10 | -1.562493537 | NA | background | background | 4 |
| ENSG00000162771.7 | 4.218411132 | NA | background | background | 5 |
| ENSG00000162944.10 | 1.452361437 | 5 | background | background | 4 |
| ENSG00000163013.11 | 1.808262241 | 5 | NA | 5 | 4 |
| ENSG00000163032.11 | -1.158762092 | background | background | background | 2 |
| ENSG00000163053.10 | 2.211895411 | NA | background | background | 4 |
| ENSG00000163071.10 | 1.653061678 | 4 | 5 | 4 | 4 |
| ENSG00000163141.18 | 1.512020207 | 5 | background | background | 3 |
| ENSG00000163239.12 | 2.111994628 | background | 5 | 5 | 3 |
| ENSG00000163257.10 | 1.039988904 | background | 5 | 5 | 4 |
| ENSG00000163328.13 | -1.368030285 | 5 | background | background | 3 |
| ENSG00000163581.13 | -1.216488542 | 5 | background | background | 5 |
| ENSG00000163596.16 | 1.006479151 | background | background | background | 4 |
| ENSG00000163602.10 | 1.007595085 | NA | NA | 5 | 4 |
| ENSG000001637339.4 | -1.177843788 | background | 5 | background | 5 |
| ENSG00000163993.6 | 2.767860787 | NA | 5 | background | 4 |
| ENSG00000164048.13 | 1.086266657 | background | background | 5 | 3 |
| ENSG00000164066.12 | -1.025631279 | 5 | 5 | 4 | 3 |
| ENSG00000164082.14 | 3.084900614 | 4 | 5 | background | 2 |
| ENSG00000164116.16 | -1.228208123 | 4 | background | background | 4 |
| ENSG00000164171.10 | -1.031078556 | background | 5 | 5 | 4 |
| ENSG00000164220.6 | 1.943707196 | NA | background | background | 5 |
| ENSG00000164404.8 | 1.968492358 | background | background | background | 5 |
| ENSG00000164659.14 | 1.0533945 | 5 | background | background | 3 |
| ENSG00000164692.17 | -1.23350125 | background | 4 | 5 | 4 |
| ENSG00000164953.15 | -1.082950974 | 5 | background | background | 3 |
| ENSG00000164972.12 | 3.888171075 | 5 | background | background | 4 |
| ENSG00000165097.13 | -1.41982542 | 5 | background | background | 5 |
| ENSG00000165194.15 | 1.419769256 | 5 | background | NA | 5 | 3 |
| ENSG00000165434.7 | -1.524572052 | background | background | 5 | 4 |
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| ENSG00000165494.11 | 1.111176759 | background | background | 5 | 4 | 4 |
| ENSG00000165841.9 | -1.44138816 | 5 | background | background | 4 |
| ENSG00000166111.9 | -3.725937655 | 4 | 3 | 4 | 3 |
| ENSG00000166206.14 | 2.690830735 | background | background | 5 | 3 |
| ENSG00000166670.9 | 2.327625248 | 5 | background | background | 5 |
| ENSG00000166741.7 | -1.389089139 | 5 | background | background | 4 |
| ENSG00000166743.9 | -1.545366604 | 5 | background | background | 3 |
| ENSG00000166845.13 | 1.590905635 | background | background | 4 |
| ENSG00000166920.12 | -1.629002636 | background | background | 3 |
| ENSG00000167371.17 | -1.252701598 | background | background | 5 |
| ENSG00000167508.11 | 2.9622018 | background | 5 | background | 4 |
| ENSG00000167715.5 | -1.04213632 | 5 | 5 | background | 4 |
| ENSG00000167780.11 | -1.289815892 | 5 | background | background | 3 |
| ENSG00000167800.7 | 2.557327574 | 4 | 4 | background | 4 |
| ENSG00000167910.3 | -3.140648335 | 5 | background | background | 5 |
| ENSG00000168003.16 | 1.766407279 | 4 | background | background | 3 |
| ENSG00000168010.10 | -1.076309216 | background | background | 4 |
| ENSG00000168014.16 | 1.272889893 | 4 | background | background | 4 |
| ENSG00000168237.17 | -1.027859664 | 5 | background | background | 5 | 5 |
| ENSG00000168273.7 | 1.301839917 | NA | background | background | 4 |
| ENSG00000168298.6 | 2.725577026 | NA | background | background | 5 |
| ENSG00000168386.18 | -1.376770385 | background | background | 4 |
| ENSG00000168497.4 | -1.531230516 | NA | 5 | background | 4 |
| ENSG00000168542.14 | -2.632749271 | background | background | 5 | 4 |
| ENSG00000168564.5 | 1.333903355 | background | background | background | background |
| ENSG00000168661.14 | 1.266258789 | background | 3 | background | 3 |
| ENSG00000168913.6 | -1.221748543 | NA | 5 | background | 5 |
| ENSG00000168928.12 | 3.765199445 | 5 | 5 | 4 | 4 |
| ENSG00000168961.16 | -1.201132098 | background | 5 | 5 | 4 |
| ENSG00000168970.22 | -1.377916246 | 4 | background | background | 4 |
| ENSG00000169085.11 | -1.85515489 | background | background | 5 | 3 |
| ENSG00000169181.12 | 2.396687258 | 5 | background | 5 | 2 |
| ENSG00000169291.9 | 1.91038423 | background | background | 5 | 4 |
|   | ENSG00000169710.8 | -1.021102892 | 3 | 5 | 4 | 3 |
|---|----------------|----------------|---|---|---|---|
|   | ENSG00000169752.16 | -1.43868545 | background | background | background | 4 |
|   | ENSG00000169783.12 | 6.16379688 | NA | background | 5 | 2 |
|   | ENSG00000169962.4 | 2.107867992 | 5 | background | 4 | 4 |
|   | ENSG00000170325.14 | 1.803116448 | background | background | background | 4 |
|   | ENSG00000170482.16 | -1.252109459 | 5 | background | background | 4 |
|   | ENSG00000170836.11 | 1.354895726 | background | 5 | 4 | 4 |
|   | ENSG00000170837.2 | 2.55410363 | NA | NA | background | 5 |
|   | ENSG00000171103.10 | -1.224611676 | background | background | background | 4 |
|   | ENSG00000171124.12 | 6.439836951 | 5 | 5 | background | 5 |
|   | ENSG00000171241.8 | -1.33989619 | background | background | background | 4 |
|   | ENSG00000171291.8 | 3.114178875 | background | background | background | 4 |
|   | ENSG00000171388.11 | -2.04463654 | background | 5 | 5 | 4 |
|   | ENSG00000171557.16 | -1.011622194 | background | background | background | 5 |
|   | ENSG00000171560.14 | -1.012159879 | background | background | background | 5 |
|   | ENSG00000171564.11 | -1.001838943 | background | background | background | 5 |
|   | ENSG00000171606.17 | 1.106357111 | background | 5 | background | 4 |
|   | ENSG00000171631.14 | -2.230231172 | 5 | 5 | 5 | 3 |
|   | ENSG00000171649.11 | 2.5864413 | background | 5 | 5 | 4 |
|   | ENSG00000171714.10 | -1.14879931 | 5 | 5 | background | 4 |
|   | ENSG00000171786.5 | 3.760293103 | NA | 5 | 3 | 3 |
|   | ENSG00000172482.4 | -1.134506723 | background | 5 | background | 3 |
|   | ENSG00000172497.8 | -1.074304259 | 5 | background | 5 | 4 |
|   | ENSG00000172766.18 | 1.872421354 | background | 5 | background | 4 |
|   | ENSG00000172915.18 | -1.1988283 | 4 | background | background | 3 |
|   | ENSG00000173068.17 | -2.221474056 | 5 | background | 4 | 3 |
|   | ENSG00000173110.7 | 3.250167967 | NA | background | background | 5 |
|   | ENSG00000173262.11 | -1.45855136 | 5 | background | background | 3 |
|   | ENSG00000173275.12 | 1.223415553 | background | background | background | 4 |
|   | ENSG00000173366.11 | 1.894332281 | 5 | NA | 5 | 4 |
|   | ENSG00000173406.15 | -1.188520385 | 5 | background | 5 | 3 |
|   | ENSG00000173535.13 | 1.246433918 | 4 | 4 | 4 | 4 |
|   | ENSG00000173559.12 | -1.536411916 | background | 5 | background | 4 |
|   | ENSG00000173575.20 | 1.700130489 | background | 5 | 4 | 4 |
|   | ENSG00000173930.8 | -1.363047409 | background | 5 | background | 4 |
|   | ENSG00000173991.5 | 1.697710722 | NA | 4 | background | 4 |
|   | ENSG00000174307.6 | 1.570293934 | background | background | background | 3 |
|   | ENSG00000174500.12 | 1.096452654 | background | 5 | 5 | 5 |
|   | ENSG00000174564.12 | 3.750545715 | 5 | background | background | 4 |
|   | ENSG00000174792.10 | -1.669723516 | NA | background | 4 | 4 |
|   | ENSG00000175197.11 | 1.785629499 | background | background | background | 4 |
| Gene ID          | Value     | Column 1 | Column 2 | Column 3 | Column 4 |
|-----------------|-----------|----------|----------|----------|----------|
| ENSG00000175287.18 | -1.093026702 | 4        | 5        | 3        | 3        |
| ENSG00000175356.12 | 2.998551228 | background | 3 | background | 2 |
| ENSG00000175449.13 | -1.838880061 | background | 5 | background | 4 |
| ENSG00000175592.8 | 1.061094621 | background | 4 | background | 4 |
| ENSG00000175707.8 | 1.447529786 | NA       | background | 4 | background | 4 |
| ENSG00000175744.12 | 2.07592652  | NA       | background | 5 | background | 4 |
| ENSG00000175749.8 | 1.338270569 | NA       | background | 5 | background | 5 |
| ENSG00000175788.8 | -1.123325093 | NA       | background | 5 | background | 4 |
| ENSG00000176163.14 | 3.03075678 | NA       | 5        | 5        | 5        |
| ENSG00000176374.12 | 2.07592652  | NA       | background | 5 | background | 4 |
| ENSG00000176401.5 | 1.3903027   | NA       | background | 5 | background | 5 |
| ENSG00000176404.2 | 1.50883668  | 4        | background | 4 | background | 3 |
| ENSG00000176706.6 | 2.517630153 | 5        | 5        | background | 3 |
| ENSG00000176823.11 | 1.82732959  | 4        | background | 4 | background | 4 |
| ENSG00000177374.12 | 1.3903027   | NA       | background | 5 | background | 4 |
| ENSG00000177453.7 | -1.3140907  | 4        | background | 3 | background | 3 |
| ENSG000001778531.5 | -1.07953461 | NA       | background | 4 | background | 4 |
| ENSG000001778965.13 | -3.52973656 | background | background | background | background | 3 |
| ENSG000001779111.8 | 2.242369629 | background | NA      | NA      | 3        |
| ENSG00000179256.2 | -1.319807523 | NA       | background | background | 5        |
| ENSG00000179348.11 | 2.223756713 | background | background | 4 | background | 3 |
| ENSG00000179455.7 | 1.420104832 | NA       | background | background | background | 4 |
| ENSG00000179588.8 | 1.018881814 | 5        | background | 5 | background | 3        |
| ENSG00000179598.5 | 1.260599228 | NA       | background | 4 | background | 4        |
| ENSG00000179698.13 | 1.060252841 | 5        | background | 4 | background | 2        |
| ENSG00000179698.13 | 1.060252841 | background | background | 4 | background | 2        |
| ENSG00000179846.9 | 3.814223613 | NA       | 5        | 4        | 4        |
| ENSG00000179859.9 | 1.822107251 | NA       | background | 5 | background | 4        |
| ENSG00000180071.19 | 2.201922206 | background | background | 5 | background | 4        |
| ENSG00000180425.11 | 1.152371669 | NA       | background | background | background | 4 |
| ENSG00000180626.9 | 1.147816349 | NA       | background | 5 | background | 5        |
| ENSG00000180834.7 | 1.600206188 | background | background | 5 | background | 4        |
| ENSG00000180875.4 | -1.428863397 | NA       | 4        | 5        | 4        |
| ENSG00000181007.8 | 1.163950158 | background | background | background | background | 4 |
| Gene Symbol | Log2 Fold Change | p-value | N/A | Background | Experimental |
|-------------|-----------------|---------|-----|------------|--------------|
| ENSG00000197124.11 | 1.047736543 | background | background | background | 4 |
| ENSG00000197128.11 | 1.147749391 | background | background | background | 5 |
| ENSG00000197444.9 | -1.19626354 | 5 | background | background | 2 |
| ENSG00000197483.9 | 1.871005832 | NA | 5 | background | 3 |
| ENSG00000197558.11 | -3.502981998 | 3 | NA | background | 5 |
| ENSG00000197580.11 | -1.146763021 | 5 | background | background | 4 |
| ENSG00000197647.11 | 1.479732671 | background | 5 | background | 4 |
| ENSG00000197653.15 | -1.310530897 | 4 | background | background | 4 |
| ENSG00000197653.15 | -1.310530897 | 5 | background | background | 4 |
| ENSG00000197714.8 | 1.031686218 | background | background | background | 5 |
| ENSG00000197768.10 | -1.402497857 | 4 | background | background | 5 |
| ENSG00000197779.13 | 1.321753362 | background | background | background | 3 |
| ENSG00000197857.13 | 1.093165028 | background | background | background | 3 |
| ENSG00000197915.5 | 1.727161464 | background | background | background | 5 |
| ENSG00000197921.5 | 6.22411082 | background | background | background | 5 |
| ENSG00000198074.9 | 1.373753469 | background | background | background | 4 |
| ENSG00000198075.9 | 4.009138281 | background | background | background | 5 |
| ENSG00000198077.10 | -1.559019712 | background | background | background | 4 |
| ENSG00000198093.10 | 1.034507301 | background | background | background | 4 |
| ENSG00000198099.8 | -1.64090692 | background | background | background | 5 |
| ENSG00000198182.12 | 1.321695519 | background | background | background | 5 |
| ENSG00000198211.8 | 7.440085721 | background | background | background | 4 |
| ENSG00000198342.5 | 1.47514991 | background | background | background | 3 |
| ENSG00000198417.6 | -1.206716805 | NA | 4 | background | 5 |
| ENSG00000198590.11 | 2.246483638 | background | background | background | 4 |
| ENSG00000198610.10 | -1.031565671 | background | background | background | 5 |
| ENSG00000198670.11 | -1.174319045 | 5 | background | background | 3 |
| ENSG00000198680.4 | 1.43956821 | NA | 5 | background | 5 |
| ENSG00000198758.10 | -1.412219493 | 5 | background | background | 4 |
| ENSG00000198796.6 | -1.144474791 | 4 | background | background | 3 |
| ENSG00000198835.3 | 2.550258774 | NA | background | background | 5 |
| ENSG00000198901.13 | -1.080280524 | background | background | background | 5 |
| ENSG0000020323.11 | 1.042980739 | background | background | background | 4 |
| ENSG00000203668.2 | 1.25663364 | NA | background | background | 4 |
| ENSG00000203727.3 | 1.21071899 | NA | background | background | 3 |
| ENSG00000203985.10 | -1.45949977 | background | background | background | 3 |
| ENSG00000204060.7 | 1.769731772 | NA | NA | background | 3 |
| ENSG00000204174.7 | -3.144430416 | 4 | 4 | background | 4 |
| ENSG00000204175.5 | -1.684351911 | NA | background | background | 4 |
| ENSG00000204176.13 | 1.72783046 | 5 | background | background | 4 |
| ENSG00000204228.3 | -1.00899866 | background | background | background | 5 |
| ENSG00000204248.10 | 1.769669812 | 5   | 5   | 5   | 3   |
|-------------------|-------------|-----|-----|-----|-----|
| ENSG00000204305.13 | 1.094924661 | background | 5   | background | background | 5   |
| ENSG00000204334.7 | -2.799072489 | background | background | background | 4   |
| ENSG00000204335.3 | 1.393266146 | NA      | background | 5   | 5   |
| ENSG00000204388.6 | 1.830717912 | NA      | background | 5   | 5   |
| ENSG00000204396.10 | -1.411982327 | 5   | 3   | background | 3   |
| ENSG00000204519.10 | 1.071129591 | background | background | background | 4   |
| ENSG000002044524.6 | 1.133230142 | background | NA   | NA   | 3   |
| ENSG00000204604.9 | 1.105646315 | background | background | background | 4   |
| ENSG00000204618.8 | 1.04561553  | background | background | 5   | 4   |
| ENSG00000204946.9 | 1.509317424 | background | background | 5   | 4   |
| ENSG00000205111.8 | 3.701869    | background | NA   | 5   | 4   |
| ENSG00000205358.3 | -1.605021353 | NA      | background | background | 5   |
| ENSG00000205436.7 | -1.209388045 | background | 5   | background | 4   |
| ENSG00000205544.3 | -1.02848389  | background | background | background | 5   |
| ENSG00000205853.10 | 4.79192238  | background | background | background | 4   |
| ENSG00000205856.3 | 1.618600768 | background | 5   | background | 4   |
| ENSG00000205861.11 | 2.077004376 | background | background | background | 4   |
| ENSG00000205978.5 | -1.216949252 | 4   | 5   | 5   | 4   |
| ENSG00000213020.9 | 1.110261969 | background | 5   | background | 3   |
| ENSG00000213186.7 | 1.135545811 | background | background | 4   | 4   |
| ENSG00000213512.1 | -1.321972465 | background | background | background | 5   |
| ENSG00000213638.5 | 1.23000418  | NA      | background | 5   | 4   |
| ENSG00000213760.10 | 1.88450749  | background | background | 5   | 5   |
| ENSG00000214140.10 | 3.6379447   | NA      | background | background | 4   |
| ENSG00000214226.8 | 1.301901792 | background | background | background | 3   |
| ENSG00000214367.7 | 1.08093532  | background | background | 4   | 4   |
| ENSG00000214456.8 | -1.095731396 | 5   | background | 5   | 5   |
| ENSG00000215529.12 | 5.327039196 | background | background | NA   | 3   |
| ENSG00000215788.9 | -1.02478955 | 5   | background | 5   | 4   |
| ENSG00000216937.13 | 1.308915493 | background | background | background | 4   |
| ENSG00000218336.8 | -2.110344236 | 5   | background | 5   | 3   |
| ENSG00000220205.8 | 1.291941585 | 5   | 5   | 4   | 4   |
| ENSG00000221821.3 | 1.108031135 | NA      | background | background | 4   |
| ENSG00000221883.2 | 1.261888109 | NA      | background | background | 4   |
| ENSG00000221886.3 | 1.118342651 | NA      | background | background | 4   |
| ENSG00000221916.3 | 1.842805646 | NA      | background | background | 3   |
| ENSG00000221923.8 | 1.032562262 | background | background | background | 4   |
| ENSG00000221995.5 | 2.021366963 | NA      | 4   | 4   | 4   |
| ENSG00000223573.6 | 4.654618943 | background | background | 5   | 3   |
| ENSG00000224916.9 | -1.016581981 | 4   | background | background | 4   |
| Gene ID   | Log2 Fold Change | P-Value | Status | Background | Chromosome | Start Coordinates |
|----------|-----------------|---------|--------|------------|------------|-------------------|
| ENSG00000226174.6 | 2.867585148 | NA      | background | 4          | 3          | 198               |
| ENSG00000227268.3 | 1.129989307 | NA      | 4      | 5          | 4          | 198               |
| ENSG00000228049.7 | -1.387677928 | 5        | background | NA | NA | 5          |
| ENSG00000231852.6 | 1.398566184 | NA      | 4       | 4          | 3          | 198               |
| ENSG00000232434.2 | 1.090202012 | NA      | 5       | 4          | 4          | 198               |
| ENSG00000234444.9 | 1.6625798    | 5        | background | NA | NA | 4          |
| ENSG00000235568.6 | -2.94252082  | 4        | background | 4          | 3          | 198               |
| ENSG00000241322.4 | 1.310543672 | NA      | background | 4          | 4          | 198               |
| ENSG00000242689.2 | 2.517054239 | NA      | 5       | 5          | 4          | 198               |
| ENSG00000243660.9 | 1.001000728 | NA      | 5       | NA | NA | 4          |
| ENSG00000243708.10 | 1.75952433  | 4        | background | background | 4          | 198               |
| ENSG00000244067.2 | -1.08134671  | background | background | 4          | 4          | 198               |
| ENSG00000244242.1 | 3.029311284 | NA      | background | 4          | 4          | 198               |
| ENSG00000244414.6 | -1.010548636 | NA      | background | background | 4          | 198               |
| ENSG00000244607.5 | 1.223522415 | 5        | background | 5          | 4          | 198               |
| ENSG00000247315.3 | 1.156856526 | NA      | background | 5          | 4          | 198               |
| ENSG00000248672.5 | -5.39342198  | background | background | NA | 4          | 198               |
| ENSG00000249459.8 | 1.411725221 | 4        | background | 4          | 2          | 198               |
| ENSG00000249624.8 | -1.27943221  | background | NA | NA | 4          | 198               |
| ENSG00000249888.4 | 2.175884885 | background | background | 3          | 198               |
| ENSG00000250091.2 | -1.317492974 | NA      | background | 5          | 5          | 198               |
| ENSG00000250486.3 | 3.877511523 | NA      | background | background | 4          | 198               |
| ENSG00000250644.3 | 1.250782786 | 5        | background | 5          | 3          | 198               |
| ENSG00000251349.3 | 1.762505188 | background | background | 3          | 198               |
| ENSG00000251369.8 | 1.082557468 | background | background | 5          | 4          | 198               |
| ENSG00000255071.3 | -1.196787283 | background | background | 4          | 4          | 198               |
| ENSG00000255974.7 | -1.070238412 | background | background | 4          | 198               |
| ENSG00000256463.8 | 2.582063605 | 3        | NA      | 5          | 3          | 198               |
| ENSG00000257335.8 | -1.746355843 | background | background | 3          | 198               |
| ENSG00000258674.5 | 1.32995165 | background | background | 5          | 4          | 198               |
| ENSG00000258839.3 | 1.005612026 | NA      | background | 4          | 198               |
| ENSG00000258947.6 | -1.398043632 | background | background | 5          | 4          | 198               |
| ENSG00000260007.2 | 1.461127506 | NA      | background | background | 4          | 198               |
| ENSG00000260272.1 | 1.416859136 | background | 5          | 5          | 4          | 198               |
| ENSG00000261701.6 | -1.485907367 | 5        | background | background | 4          | 198               |
| ENSG00000262406.2 | -1.03176347 | background | background | 4          | 198               |
| ENSG00000263020.6 | 3.953333376 | 5        | background | 5          | 4          | 198               |
| ENSG00000263528.7 | -1.280736204 | background | background | 5          | 4          | 198               |
| ENSG00000263874.2 | 1.933739254 | NA      | background | 5          | 5          | 198               |
| ENSG00000264668.1 | -1.250153001 | 4        | background | 4          | 3          | 198               |
| Gene ID | Gene Name | Value | Description | Chromosome | Position |
|--------|-----------|-------|-------------|------------|----------|
| ENSG00000265972.5 | background | 1.727415984 | background | 5 | 5 |
| ENSG00000267041.5 | background | 1.16394458 | background | 4 | 4 |
| ENSG00000268163.1 | background | 3.658766286 | background | 4 | 3 |
| ENSG00000269720.2 | background | 2.382329523 | NA | NA | 4 |
| ENSG00000270011.6 | background | 1.575938572 | 4 | background | 3 |
| ENSG00000270885.1 | background | -2.480879579 | 4 | 4 | 3 |
| ENSG00000272031.2 | background | 1.256626518 | 5 | 4 | 4 | 4 |
| ENSG00000272899.3 | background | 1.430119176 | NA | 5 | 4 | 4 |
| ENSG00000274267.1 | background | 2.385916666 | NA | 5 | 5 |
| ENSG00000274290.2 | background | 2.35801612 | NA | background | 5 |
| ENSG00000275832.4 | background | 1.211768776 | 5 | 4 | 4 |
| ENSG00000276966.2 | background | 1.820750539 | NA | 5 | background | 5 |
| ENSG00000277075.2 | background | 1.313203822 | NA | 5 | background | 5 |
| ENSG00000277117.4 | background | 2.035062097 | background | 4 | 4 |
| ENSG00000277481.1 | background | 2.771364298 | 5 | NA | 3 |
| ENSG00000277639.2 | background | 1.301589536 | background | 5 | 5 | 4 |
| ENSG00000277775.1 | background | 2.535541248 | NA | NA | 5 |
| ENSG00000277893.1 | background | -1.450757292 | 5 | background | 5 | 4 |
| ENSG00000278677.1 | background | 2.734879579 | NA | 5 | 5 |
| ENSG00000280670.2 | background | 2.152172411 | background | 5 | 4 |
| ENSG00000282301.1 | background | -1.032883328 | 5 | background | 5 | 4 |
| ENSG00000284505.1 | background | 1.502406717 | 4 | 4 | 4 | 2 |
| ENSG00000285054.1 | background | 1.033342557 | background | 4 | 4 |
| ENSG00000290464.17 | background | -1.0511044 | background | 4 | 4 |
| ENSG00000295549.13 | background | -1.04595595 | background | 4 | 4 |
| ENSG00000305697.7 | background | 1.061203535 | NA | background | background | background |
| ENSG00000117245.12 | background | -1.001289972 | background | 5 | 5 |
| ENSG00000118514.13 | background | 1.037591939 | background | 5 | 5 |
| ENSG00000118520.14 | background | 1.066725127 | 5 | background | 5 | 5 |
| ENSG00000123171.6 | background | -1.05832877 | NA | background | background | background |
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| ENSG00000130592.15 | background | -1.224032575 | background | 5 | 5 |
| ENSG00000131482.9 | background | 1.11338465 | background | 5 | 5 |
| ENSG00000137204.14 | background | 1.131536093 | background | 5 | 5 |
| ENSG00000154310.16 | background | -1.10618755 | background | 5 | 5 |
| ENSG00000164266.10 | background | 1.594296074 | background | 5 | 5 |
| ENSG00000169247.11 | background | -1.026442691 | background | 5 | 5 |
| ENSG00000177984.6 | background | 1.070369668 | background | 5 | 5 |
| ENSG00000188766.12 | background | -1.304504179 | background | 5 | 5 |
| ENSG00000198203.9 | background | 1.19849931 | background | 5 | 5 |
| ENSG00000281028.1 | background | -6.313619984 | background | 5 | 5 |
| Gene ID     | Chrm | Start | End   | Log2FoldChange | PValue   | Analysis | Freq |
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| ENSG00000003137.8 | 202  |       |       | -1.172679323  | NA       | background | 4    |
| ENSG00000003147.17 | 202  |       |       | -1.523164655  | NA       | background | 4    |
| ENSG000000005108.15 | 202  |       |       | -2.859299502  | NA       | background | 4    |
| ENSG000000005513.9 | 202  |       |       | 2.728799777   | NA       | background | 4    |
| ENSG000000005844.17 | 202  |       |       | 1.331384384   | NA       | background | 4    |
| ENSG000000005884.17 | 202  |       |       | -1.996980589  | NA       | background | 4    |
| ENSG000000006638.11 | 202  |       |       | 2.723615932   | NA       | background | 4    |
| ENSG000000006747.14 | 202  |       |       | -1.288416131  | NA       | background | 4    |
| ENSG000000007372.21 | 202  |       |       | -2.184433747  | NA       | background | 4    |
| ENSG000000011052.21 | 202  |       |       | 1.258994973   | NA       | background | 4    |
| ENSG000000013588.7 | 202  |       |       | -2.181817653  | NA       | background | 4    |
| ENSG000000013619.13 | 202  |       |       | 1.176288311   | NA       | background | 4    |
| ENSG000000014914.20 | 202  |       |       | -1.235855929  | NA       | background | 4    |
| ENSG000000019102.11 | 202  |       |       | -1.094497042  | NA       | background | 4    |
| ENSG000000019505.7 | 202  |       |       | -2.128419342  | NA       | background | 4    |
| ENSG000000020181.17 | 202  |       |       | -1.388677894  | NA       | background | 4    |
| ENSG000000020633.18 | 202  |       |       | 1.176288311   | NA       | background | 4    |
| ENSG000000021461.16 | 202  |       |       | 1.139895926   | NA       | background | 4    |
| ENSG000000023171.16 | 202  |       |       | -1.30877567   | NA       | background | 4    |
| ENSG000000027869.11 | 202  |       |       | -1.640842455  | NA       | background | 4    |
| ENSG000000030419.16 | 202  |       |       | -1.557951555  | NA       | background | 4    |
| ENSG000000034510.5 | 202  |       |       | -1.203898292  | NA       | background | 4    |
| ENSG000000039068.18 | 202  |       |       | -1.284778058  | NA       | background | 4    |
| ENSG000000040608.13 | 202  |       |       | -1.777220172  | NA       | background | 4    |
| ENSG000000043355.11 | 202  |       |       | -1.443297383  | NA       | background | 4    |
| ENSG000000049323.15 | 202  |       |       | -2.680451472  | NA       | background | 4    |
| ENSG000000052344.15 | 202  |       |       | -1.10678518   | NA       | background | 4    |
| ENSG000000054179.11 | 202  |       |       | -1.279628656  | NA       | background | 4    |
| ENSG000000055118.14 | 202  |       |       | -1.129069237  | NA       | background | 4    |
| ENSG000000057019.15 | 202  |       |       | -1.372193227  | NA       | background | 4    |
| ENSG000000060566.13 | 202  |       |       | -1.516476644  | NA       | background | 4    |
| ENSG000000061492.11 | 202  |       |       | 2.573924334   | NA       | background | 4    |
| ENSG000000063660.8 | 202  |       |       | -1.180609538  | NA       | background | 4    |
| ENSG000000064300.8 | 202  |       |       | -2.244164339  | NA       | background | 4    |
| ENSG000000064787.13 | 202  |       |       | -1.263958269  | NA       | background | 4    |
| ENSG000000065320.8 | 202  |       |       | 1.00565915    | NA       | background | 4    |
| ENSG000000065325.12 | 202  |       |       | 1.441415393   | NA       | background | 4    |
| ENSG000000065618.18 | 202  |       |       | -3.643705423  | NA       | background | 4    |
| ENSG000000066230.10 | 202  |       |       | 1.448701665   | NA       | background | 4    |
| ENSG000000068831.18 | 202  |       |       | 4.01840669    | NA       | background | 4    |
| Accession         | log2FC  | Background 1 | Background 2 | Background 3 | Count |
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| ENSG00000068976.13 | 1.9058 | background   | background   | background   | 5     |
| ENSG00000069812.11 | -2.1923 | background   | background   | background   | 5     |
| ENSG00000070985.13 | 4.6223 | background   | background   | background   | 5     |
| ENSG00000071242.11 | 1.0527 | background   | background   | background   | 4     |
| ENSG00000071242.11 | 1.0527 | background   | background   | background   | 5     |
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| ENSG00000074181.8  | 2.8519 | background   | background   | background   | 5     |
| ENSG00000074211.13 | 1.0681 | background   | background   | background   | 5     |
| ENSG00000074410.13 | -1.7195 | background   | background   | background   | 5     |
| ENSG00000074590.13 | -1.1331 | background   | background   | background   | 5     |
| ENSG00000075223.13 | -1.7772 | background   | background   | background   | 5     |
| ENSG00000075275.16 | -1.7656 | background   | background   | NA           | 4     |
| ENSG00000076706.16 | 1.1850 | background   | background   | background   | 5     |
| ENSG00000079308.16 | 1.6453 | background   | background   | 5           | 5     |
| ENSG00000079689.13 | -1.1621 | background   | background   | background   | 5     |
| ENSG00000079691.17 | -1.3575 | background   | background   | background   | 5     |
| ENSG00000081479.12 | 1.6918  | background   | background   | background   | 3     |
| ENSG00000084628.9  | -1.4482 | background   | background   | background   | 5     |
| ENSG00000084710.13 | -1.4851 | background   | background   | background   | 5     |
| ENSG00000087237.10 | 3.5048  | background   | background   | background   | 4     |
| ENSG00000087245.12 | 3.0761  | background   | background   | background   | 5     |
| ENSG00000088882.7  | 6.1927  | background   | background   | background   | 5     |
| ENSG00000089327.14 | -1.9038 | background   | background   | NA           | 5     |
| ENSG00000089558.8  | 1.6420  | background   | background   | background   | 5     |
| ENSG00000090238.11 | 1.1277  | background   | background   | background   | 5     |
| ENSG00000091592.15 | 2.5183  | background   | NA           | NA           | 5     |
| ENSG00000091879.13 | 3.0191  | background   | background   | background   | 5     |
| ENSG00000092051.16 | 1.0348  | background   | background   | background   | 5     |
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| ENSG00000095970.16 | 2.2155  | background   | background   | background   | 5     |
| ENSG00000096433.10 | -1.1902 | background   | background   | background   | 5     |
| ENSG00000099338.22 | -1.7523 | background   | background   | background   | 5     |
| ENSG00000100033.16 | -1.6842 | background   | background   | background   | 5     |
| ENSG00000100092.20 | 1.1520  | background   | background   | background   | 5     |
| ENSG00000100276.9  | 1.4713  | background   | background   | background   | 5     |
| ENSG00000100290.2  | -1.6372 | background   | background   | background   | 5     |
| ENSG00000100292.16 | 1.5539  | background   | background   | background   | 5     |
| ENSG00000100314.3  | 1.0567  | background   | background   | background   | 5     |
| ENSG00000100321.14 | 1.5557  | background   | background   | background   | 5     |
| ENSG00000100399.15 | 1.6159  | background   | background   | background   | 5     |
| ENSG00000100557.9 | -2.046106011 | background | background | background | 5 |
| ENSG00000100626.16 | 2.345243849 | background | background | background | 5 |
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| ENSG00000101203.16 | 2.606074235 | background | background | background | 5 |
| ENSG00000101265.15 | -2.334136202 | background | background | background | 5 |
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| ENSG00000101470.9 | 1.22552007 | background | background | background | 5 |
| ENSG00000102003.10 | 2.015479784 | background | background | background | 5 |
| ENSG00000102032.12 | 2.396650328 | background | background | background | 5 |
| ENSG00000102230.13 | -1.120617496 | background | background | background | 5 |
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| ENSG00000103534.16 | 1.11788352 | background | background | background | 5 |
| ENSG00000103546.18 | 2.042163918 | background | background | background | 5 |
| ENSG00000103647.12 | -1.509489566 | background | background | background | 5 |
| ENSG00000104055.15 | -1.066756305 | background | background | background | 5 |
| ENSG00000104267.9 | 2.23792911 | background | background | background | background |
| ENSG00000104327.7 | 3.660653837 | background | background | background | background |
| ENSG00000104371.4 | 1.095155472 | background | background | background | background |
| ENSG00000104537.16 | -1.04325508 | background | background | background | background |
| ENSG00000104760.16 | 1.00681089 | background | background | background | 5 |
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| ENSG00000105146.12 | 1.271530591 | background | background | background | background |
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| ENSG00000105664.10 | 1.316280818 | background | background | background | background |
| ENSG00000105672.14 | 1.329503072 | background | background | background | background |
| ENSG00000105695.14 | 2.300381955 | background | background | background | 5 |
| ENSG00000105697.7 | 1.512508827 | background | background | background | 5 |
| ENSG00000105737.9 | 4.845954749 | background | background | NA | 5 |
| ENSG00000105792.19 | 1.155750015 | background | background | background | 4 |
| Gene ID | Chromosome | Start Position | Log2 Fold Change | p-value | Enrichment Score |
|---------|-------------|----------------|-----------------|---------|-----------------|
| ENSG00000105825.11 | 202 | 105825 | -1.67904316 | NA | background |
| ENSG00000105855.9 | 202 | 105855 | -1.150939445 | NA | background |
| ENSG00000106541.11 | 202 | 106541 | -1.04795909 | NA | background |
| ENSG00000106991.13 | 202 | 106991 | 2.002677562 | NA | background |
| ENSG00000107130.9 | 202 | 107130 | -1.109173323 | NA | background |
| ENSG00000107159.12 | 202 | 107159 | -1.372072711 | NA | background |
| ENSG00000107331.16 | 202 | 107331 | -1.186618121 | NA | background |
| ENSG00000107738.19 | 202 | 107738 | 1.634194603 | NA | background |
| ENSG00000108602.17 | 202 | 108602 | 2.357643001 | NA | background |
| ENSG00000108821.13 | 202 | 108821 | -2.259194044 | NA | background |
| ENSG00000108932.11 | 202 | 108932 | 1.425907299 | NA | background |
| ENSG00000108947.4 | 202 | 108947 | 1.374384229 | NA | background |
| ENSG00000109113.19 | 202 | 109113 | 1.586890139 | NA | background |
| ENSG00000109265.13 | 202 | 109265 | -1.23373872 | NA | background |
| ENSG00000109625.18 | 202 | 109625 | 1.516243016 | NA | background |
| ENSG00000109819.8 | 202 | 109819 | 1.142939106 | NA | background |
| ENSG00000110427.14 | 202 | 10427 | -1.243298838 | NA | background |
| ENSG00000110651.11 | 202 | 10651 | 1.856847352 | NA | background |
| ENSG00000110777.11 | 202 | 10777 | 1.310478607 | NA | background |
| ENSG00000110799.13 | 202 | 10799 | -1.335485483 | NA | background |
| ENSG00000111319.12 | 202 | 11319 | -1.005774005 | NA | background |
| ENSG00000111678.10 | 202 | 11678 | 1.189287663 | NA | background |
| ENSG00000111752.10 | 202 | 11752 | 1.205388409 | NA | background |
| ENSG00000111799.20 | 202 | 11799 | -4.626716395 | NA | background |
| ENSG00000111981.4 | 202 | 11981 | -1.599424364 | NA | background |
| ENSG00000112186.11 | 202 | 12186 | -1.225271098 | NA | background |
| ENSG00000112299.7 | 202 | 12299 | -2.625840971 | NA | background |
| ENSG00000112494.9 | 202 | 12494 | -1.467714605 | NA | background |
| ENSG00000112559.13 | 202 | 12559 | 1.826275185 | NA | background |
| ENSG00000112818.9 | 202 | 12818 | 1.359969728 | NA | background |
| ENSG00000113212.6 | 202 | 13212 | -2.346090143 | NA | background |
| ENSG00000113555.5 | 202 | 13555 | 1.469682295 | NA | background |
| ENSG00000113742.12 | 202 | 13742 | 1.060237076 | NA | background |
| ENSG00000113749.7 | 202 | 13749 | 3.827186595 | NA | background |
| ENSG00000114626.17 | 202 | 14626 | 1.005480913 | NA | background |
| ENSG00000114698.14 | 202 | 14698 | 1.512880117 | NA | background |
| ENSG00000114948.12 | 202 | 14948 | 2.937090703 | NA | background |
| ENSG00000115009.11 | 202 | 15009 | 1.915143214 | NA | background |
| ENSG00000115085.13 | 202 | 15085 | 2.161662625 | NA | background |
| ENSG00000115194.10 | 202 | 15194 | 1.869684733 | NA | background |
| ENSG00000115457.9 | 202 | 15457 | 1.03688243 | NA | background |
| ENSG00000115461.4 | -2.639482902 | background | background | background | 5 |
| ENSG00000115648.13 | 1.735494299 | background | background | background | 5 |
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| ENSG00000116194.12 | 2.01564926 | background | background | background | 5 |
| ENSG00000116254.17 | 1.41787671 | background | background | background | 5 |
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| ENSG00000116852.14 | 1.13118002 | background | background | background | 5 |
| ENSG00000116977.18 | 1.250525706 | background | background | background | 5 |
| ENSG00000116990.10 | -1.072437558 | NA | background | background | 5 |
| ENSG00000117226.11 | -1.424774654 | background | background | background | 5 |
| ENSG00000117407.16 | 1.443288266 | background | background | background | 5 |
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| ENSG00000117586.10 | 1.223413456 | background | background | background | 5 |
| ENSG00000117983.17 | 3.801590288 | background | background | background | 5 |
| ENSG00000118004.17 | 1.751912817 | NA | background | background | 5 |
| ENSG00000118402.5 | 1.863401671 | background | background | background | 5 |
| ENSG00000118513.18 | -2.531180384 | 5 | background | background | 5 |
| ENSG00000118785.13 | 2.371742049 | background | background | background | 5 |
| ENSG00000118971.7 | -1.024754796 | background | background | background | 5 |
| ENSG00000119547.5 | 1.121134804 | NA | background | background | 5 |
| ENSG00000119681.11 | -1.805016514 | background | background | background | 5 |
| ENSG00000119866.20 | -1.944393082 | NA | background | background | 5 |
| ENSG00000119915.4 | -1.053413074 | background | background | background | 5 |
| ENSG00000120057.4 | 4.03417134 | NA | background | background | 5 |
| ENSG00000120217.13 | -2.313786527 | NA | background | background | 5 |
| ENSG00000120738.7 | 1.493220018 | NA | background | background | 5 |
| ENSG00000120833.13 | -1.808327382 | background | background | background | 5 |
| ENSG00000121005.8 | 3.21164608 | background | background | background | 5 |
| ENSG00000121552.3 | -1.182267613 | NA | background | background | 5 |
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| ENSG00000122122.9 | 3.753096754 | background | background | background | 5 |
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| ENSG00000122877.15 | 1.429666682 | NA | background | background | 5 |
| ENSG00000122986.13 | 1.062104151 | background | background | background | 5 |
| ENSG00000123095.5 | -1.916510656 | background | background | background | 5 |
| ENSG00000123119.11 | 2.682182344 | 5 | background | background | 5 |
| Gene ID     | Value       | Annotation | Background | | | |
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| ENSG00000123171.6 | -1.929748964 | NA | background | background | background |
| ENSG00000123358.19 | 1.60816484  | background | background | background | 4 |
| ENSG00000123560.13 | -1.277682076 | background | background | background | background |
| ENSG00000124103.8 | 2.650090189 | NA | background | background | 5 |
| ENSG00000124126.13 | 1.581588612 | background | background | background | 5 |
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| ENSG00000124635.8 | 1.790852328 | NA | NA | NA | background |
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| ENSG00000124882.3 | -1.447718118 | background | background | background | background |
| ENSG00000125735.10 | -1.129729309 | background | background | background | background |
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| ENSG00000126838.9 | 4.003611892 | background | background | background | background |
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| ENSG00000127578.6 | 1.523427708 | NA | background | background | background |
| ENSG00000127585.11 | -1.98003281 | background | background | background | 5 |
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| ENSG00000127824.13 | 2.101723673 | background | background | background | 5 |
| ENSG00000128285.4 | 1.577300247 | NA | background | background | background |
| ENSG00000128340.14 | -1.874969804 | background | background | background | background |
| ENSG00000128422.15 | -1.427713149 | background | background | background | background |
| ENSG00000128510.10 | -3.805196647 | 5 background | background | background | 5 |
| ENSG00000128564.6 | 1.311284084 | NA | background | background | background |
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| ENSG00000129038.15 | -1.21065225 | background | background | background | 5 |
| ENSG00000129244.8 | 1.996561262 | background | background | background | background |
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| ENSG00000130300.8 | 5.425117993 | background | background | background | background |
| ENSG00000130307.11 | 1.669656691 | background | background | background | 5 |
| ENSG00000130487.5 | 2.655327816 | NA | background | background | background |
| ENSG00000130513.6 | 1.20593212 | NA | background | background | background |
| ENSG00000130529.15 | -1.04653572 | background | background | background | background |
| ENSG00000130584.10 | 1.586722005 | background | background | background | 5 |
| Ensembl Gene ID  | Feature  | Value     | Background 1 | Background 2 | Background 3 | Background 4 | Background 5 |
|------------------|----------|-----------|--------------|--------------|--------------|--------------|--------------|
| ENSG00000130701.3 |          | -1.291513764 | background   | background   | background   | background   | background   |
| ENSG00000130720.12 |          | -1.855758586 | background   | background   | background   | background   | background   |
| ENSG00000130751.9 |          | 1.673196162 | background   | background   | background   | background   | background   |
| ENSG00000130876.11 |          | 3.10549412 | background   | background   | background   | background   | background   |
| ENSG00000130997.16 |          | 1.045725726 | background   | NA           | background   | background   | background   |
| ENSG00000131016.16 |          | -1.431874551 | background   | background   | background   | background   | background   |
| ENSG00000131019.10 |          | -1.552198319 | background   | NA           | background   | background   | background   |
| ENSG00000131061.13 |          | 1.667455872 | background   | background   | background   | background   | background   |
| ENSG00000131650.13 |          | 1.865563638 | background   | background   | background   | background   | background   |
| ENSG00000131914.10 |          | 3.009245252 | background   | background   | background   | background   | background   |
| ENSG00000131951.10 |          | 1.67745735 | background   | background   | background   | background   | background   |
| ENSG00000132297.11 |          | 2.52696109 | background   | background   | background   | background   | background   |
| ENSG00000132535.18 |          | 1.02116526 | background   | background   | background   | background   | background   |
| ENSG00000132669.12 |          | -1.89835886 | background   | background   | background   | background   | background   |
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| ENSG00000133048.12 |          | -2.171808709 | background   | background   | background   | background   | background   |
| ENSG00000133055.8 |          | 1.97470771 | background   | background   | background   | background   | background   |
| ENSG00000133300.8 |          | -1.982976198 | background   | background   | background   | background   | background   |
| ENSG00000133816.13 |          | -1.077700347 | background   | background   | background   | background   | background   |
| ENSG00000133863.7 |          | -2.148606101 | background   | background   | background   | background   | background   |
| ENSG00000133985.2 |          | -1.590591037 | background   | background   | background   | background   | background   |
| ENSG00000134013.15 |          | -2.011688406 | background   | background   | background   | background   | background   |
| ENSG00000134240.11 |          | 1.170869373 | background   | background   | background   | background   | background   |
| ENSG00000134323.11 |          | 4.472602675 | background   | background   | background   | background   | background   |
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| ENSG00000134531.9 |          | -1.450905893 | background   | background   | background   | background   | background   |
| ENSG00000134548.9 |          | -2.455039796 | background   | background   | background   | background   | background   |
| ENSG00000134668.12 |          | -2.423441075 | background   | background   | background   | background   | background   |
| ENSG00000134864.10 |          | -1.195302385 | background   | background   | background   | background   | background   |
| ENSG00000135074.15 |          | -2.526679987 | background   | background   | background   | background   | background   |
| ENSG00000135097.6 |          | 3.593626564 | background   | background   | background   | background   | background   |
| ENSG00000135409.10 |          | 1.682026976 | background   | background   | background   | background   | background   |
| ENSG00000135439.11 |          | 1.252694419 | background   | background   | background   | background   | background   |
| ENSG00000135517.6 |          | 1.826453606 | background   | background   | background   | background   | background   |
| ENSG00000135625.7 |          | 1.237301619 | background   | background   | background   | background   | background   |
| ENSG00000135898.9 |          | -1.597318235 | background   | background   | background   | background   | background   |
| ENSG00000135917.13 |          | 1.255502674 | background   | background   | background   | background   | background   |
| ENSG00000136161.12 |          | 1.120809819 | background   | background   | background   | background   | background   |
| ENSG00000136286.14 |          | 1.0242384 | background   | background   | background   | background   | background   |
| ENSG00000136490.8 |          | 1.100780033 | background   | background   | background   | background   | background   |
|    | ENSG00000136842.13 | -1.258685902 | background | background | background | 5  |
|----|-------------------|--------------|------------|------------|------------|----|
|    | ENSG00000136869.13 | -1.933928552 | background | background | background | 5  |
|    | ENSG00000136960.12 | 1.133978157  | background | background | background | 5  |
|    | ENSG00000137078.8  | -1.34607346  | background | background | background | 5  |
|    | ENSG00000137101.12 | 1.930207794  | background | background | background | 5  |
|    | ENSG00000137103.17 | -1.010043231 | background | background | background | 5  |
|    | ENSG00000137193.13 | 1.310365971  | background | background | background | 5  |
|    | ENSG00000137265.14 | 1.244885951  | background | background | background | 5  |
|    | ENSG00000137270.10 | 1.766024026  | background | background | background | 5  |
|    | ENSG00000137331.11 | 1.297772755  | NA         | background | background | 5  |
|    | ENSG00000137501.17 | -1.050036232 | background | background | background | 5  |
|    | ENSG00000137571.10 | -1.23149257  | background | background | background | 5  |
|    | ENSG00000137767.13 | -1.386422097 | background | background | background | 5  |
|    | ENSG00000137868.18 | 1.104722338  | background | background | background | 5  |
|    | ENSG00000138080.13 | 1.398589054  | background | background | background | 5  |
|    | ENSG00000138100.13 | 1.508819572  | background | background | background | 5  |
|    | ENSG00000138119.16 | -2.886456862 | background | background | background | 5  |
|    | ENSG00000138316.10 | -2.969976052 | NA         | background | background | 5  |
|    | ENSG00000138347.15 | 2.503749093  | background | background | background | 5  |
|    | ENSG00000138496.16 | -1.126577161 | background | background | background | 5  |
|    | ENSG00000138606.19 | 1.51250987   | 5          | background | background | 5  |
|    | ENSG00000138669.9  | -3.90445674  | background | background | background | 5  |
|    | ENSG00000138772.12 | -1.529301424 | background | background | background | 5  |
|    | ENSG00000138795.9  | 1.392885588  | background | background | background | 5  |
|    | ENSG00000139055.6  | -1.013201584 | background | background | background | 5  |
|    | ENSG00000139219.17 | 1.613167835  | background | background | background | 5  |
|    | ENSG00000139278.9  | -1.415794194 | background | background | background | 5  |
|    | ENSG00000139318.7  | 1.457433443  | NA         | background | background | 5  |
|    | ENSG00000139410.14 | -1.073383357 | background | background | background | 5  |
|    | ENSG00000139547.7  | 1.279370144  | background | background | background | 5  |
|    | ENSG00000139625.12 | 1.102096149  | background | background | background | 5  |
|    | ENSG00000139880.19 | -1.183963653 | background | background | background | 5  |
|    | ENSG00000139941.6  | 1.331208344  | NA         | background | background | 5  |
|    | ENSG00000140092.14 | 1.414883638  | background | background | background | 5  |
|    | ENSG00000140379.7  | -2.182898435 | NA         | background | background | 5  |
|    | ENSG00000140465.13 | 1.228151296  | background | background | background | 5  |
|    | ENSG00000140470.13 | -1.735242629 | background | background | background | 5  |
|    | ENSG00000140511.11 | 1.702800408  | NA         | background | background | 5  |
|    | ENSG00000141040.14 | -2.898338141 | background | background | background | 5  |
|    | ENSG00000141744.3  | 3.003024523  | background | background | background | 5  |
|    | ENSG00000141753.6  | 1.007304673  | background | background | background | 5  |
| Gene ID       | Value       | Description                  | Count |
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| ENSG00000141934.9 | 1.769961468 | background                  | 5     |
| ENSG00000142046.14 | 1.226160255 | background                  | 5     |
| ENSG00000142116.14 | -1.246749393 | background                  | 5     |
| ENSG00000142227.10 | -1.02960485  | background                  | 5     |
| ENSG00000142335.8  | -1.125364684 | background                  | 5     |
| ENSG00000142513.5  | 1.481031061  | background                  | 5     |
| ENSG00000142549.9  | 1.227001007  | background                  | 5     |
| ENSG00000142583.17 | -1.52946649  | background                  | 4     |
| ENSG00000142606.15 | -3.647716257 | background                  | 5     |
| ENSG00000143172.12 | 1.011344948  | background                  | 5     |
| ENSG00000143147.14 | -1.141715851 | background                  | 5     |
| ENSG00000143195.12 | 1.541553731  | background                  | 5     |
| ENSG00000143365.17 | -1.24762367  | background                  | 5     |
| ENSG00000143631.10 | -2.845120461 | background                  | 5     |
| ENSG00000143816.7  | 1.171557902  | background                  | 4     |
| ENSG00000144130.11 | -1.829129983 | background                  | 5     |
| ENSG00000144452.14 | -1.57096268  | background                  | 5     |
| ENSG00000144488.14 | -1.24071975  | background                  | 5     |
| ENSG00000144596.12 | 2.155898185  | background                  | 5     |
| ENSG00000144730.17 | -2.406056753 | background                  | 5     |
| ENSG00000144834.13 | -2.008268956 | background                  | 5     |
| ENSG00000144908.13 | 1.12880861   | background                  | 5     |
| ENSG00000145287.10 | 1.189108935  | background                  | 5     |
| ENSG00000145391.13 | -1.898994048 | background                  | 5     |
| ENSG00000145569.5  | -1.462174611 | background                  | 5     |
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| ENSG00000146013.10 | 1.76284936   | background                  | 5     |
| ENSG00000146054.17 | -2.175075107 | background                  | 5     |
| ENSG00000146215.13 | -1.201620192 | background                  | 5     |
| ENSG00000146233.7  | -3.246276452 | background                  | 5     |
| ENSG00000146386.7  | -1.431959261 | background                  | 5     |
| ENSG00000146592.16 | -1.414450262 | background                  | 5     |
| ENSG00000146674.14 | 1.997318627  | background                  | 5     |
| ENSG00000146678.9  | 1.159591708  | background                  | 5     |
| ENSG00000146839.18 | 1.521725352  | background                  | 5     |
| ENSG00000147100.10 | -1.934505248 | background                  | 5     |
| ENSG00000147262.3  | 1.508538158  | background                  | 5     |
| ENSG00000147394.18 | -1.29501143  | background                  | 5     |
| ENSG00000148204.11 | 1.356999394  | background                  | 5     |
| ENSG00000148225.15 | -1.038202652 | background                  | 5     |
| ENSG00000148680.15 | -1.310363393 | background                  | 5     |
| Gene ID   | Log2 Ratio | p-value | Background | Adj. p-value |
|----------|------------|---------|------------|--------------|
| ENSG00000148702.14 | -2.633341103 | 5        | background  | 5            |
| ENSG00000148832.15 | -1.134044986 | background | background | background  |
| ENSG00000148965.9 | -1.160082379 | background | background | background  |
| ENSG00000149218.4 | -1.24233031  | 5        | background  | 5            |
| ENSG00000149260.15 | 1.966041136  | background | background | background  |
| ENSG00000149564.11 | -1.635671613 | background | background | background  |
| ENSG00000149591.16 | -1.056865395 | background | background | background  |
| ENSG00000149968.11 | -1.942878977 | 5        | background  | 5            |
| ENSG00000150782.11 | -2.278343689 | background | background | background  |
| ENSG00000151474.21 | -1.018806529 | background | background | background  |
| ENSG00000151632.17 | 2.091087471  | 5        | background  | 5            |
| ENSG00000151715.7 | -1.440896006 | background | background | background  |
| ENSG00000151967.18 | -1.966407103 | background | background | background  |
| ENSG00000152056.16 | -1.235409983 | background | background | background  |
| ENSG00000152128.13 | 1.409061531  | background | background | background  |
| ENSG00000152217.16 | 1.355315217  | background | background | background  |
| ENSG00000152527.13 | -1.315828769 | background | background | background  |
| ENSG00000152672.7 | 2.353109301  | background | background | background  |
| ENSG00000152934.12 | -1.90156783  | background | background | background  |
| ENSG00000153902.13 | 2.428072735  | background | background | background  |
| ENSG00000154027.18 | -3.588329379 | background | background | background  |
| ENSG00000154134.14 | 1.185827423  | background | background | background  |
| ENSG00000154146.12 | -1.420958352 | background | background | background  |
| ENSG00000154262.12 | 1.055144747  | background | background | background  |
| ENSG00000154548.8 | 1.132819063  | background | background | background  |
| ENSG00000154734.14 | 1.95137491   | background | background | background  |
| ENSG00000155849.15 | 2.2844823    | 5        | background  | 4            |
| ENSG00000155893.12 | -1.103913952 | background | background | background  |
| ENSG00000155961.4 | 1.769922226  | NA       | background  | background  |
| ENSG00000156127.6 | -2.034126317 | NA       | background  | background  |
| ENSG00000156453.13 | 1.729518877  | background | background | background  |
| ENSG00000156515.21 | -1.423089879 | background | background | background  |
| ENSG00000156535.13 | -2.010143193 | background | background | background  |
| ENSG00000156959.8 | -3.168775567 | background | background | background  |
| ENSG00000156966.6 | -2.258696956 | NA       | background  | background  |
| ENSG00000157168.18 | -1.591814268 | background | background | background  |
| ENSG00000157240.3 | -1.421491866 | NA       | background  | background  |
| ENSG00000157353.16 | -1.052185765 | background | background | background  |
| ENSG00000157368.10 | 1.810937829  | background | background | background  |
| Gene ID    | q-value  | Background 1 | Background 2 | Background 3 | Background 4 |
|-----------|----------|--------------|--------------|--------------|--------------|
| ENSG00000157654.17 | -1.473516464 | background | background | background | 4 |
| ENSG00000157833.12 | 1.22533462 | background | background | background | 5 |
| ENSG00000158008.9 | 2.155286871 | background | background | background | background |
| ENSG00000158505.4 | 4.253379502 | background | background | background | background |
| ENSG00000158292.6 | -1.023381467 | background | background | 4 | 4 |
| ENSG00000158571.10 | -1.045849767 | background | background | background | 5 |
| ENSG00000158825.5 | -1.475077662 | background | background | background | background |
| ENSG00000158859.9 | 1.75326801 | background | background | background | background |
| ENSG00000158887.15 | 3.491468093 | background | background | background | background |
| ENSG00000159166.13 | -1.170673529 | background | background | background | 5 |
| ENSG00000159251.6 | 6.95806377 | background | 5 | background | 5 |
| ENSG00000159409.14 | 3.285377543 | background | background | background | 5 |
| ENSG00000159650.8 | -2.208830192 | 5 | background | background | 4 |
| ENSG00000159713.10 | 2.172816696 | background | background | 5 | 5 |
| ENSG00000159753.13 | 1.236034977 | background | NA | NA | background |
| ENSG00000159842.14 | -1.303280955 | background | background | background | 5 |
| ENSG00000159958.6 | 1.436811632 | NA | background | background | background |
| ENSG00000160097.16 | 1.031709735 | background | background | background | 5 |
| ENSG00000160161.9 | 1.432769451 | background | background | background | background |
| ENSG00000160182.2 | -1.871064545 | NA | background | background | background |
| ENSG00000160223.16 | -1.013397723 | background | background | 5 | 5 |
| ENSG00000160963.13 | 1.632126999 | background | background | background | 5 |
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| ENSG00000161638.10 | -1.452553834 | background | background | background | 5 |
| ENSG00000161647.18 | -1.830073272 | background | background | background | background |
| ENSG00000161677.11 | -1.086205884 | background | background | background | 5 |
| ENSG00000162068.1 | 1.359292924 | NA | background | background | background |
| ENSG00000162241.12 | 1.012658543 | background | background | background | background |
| ENSG00000162344.3 | 3.573359979 | background | background | background | background |
| ENSG00000162367.11 | 3.024801918 | background | background | background | 5 |
| ENSG00000162460.6 | -1.301147025 | background | background | background | background |
| ENSG00000162512.15 | -1.127161417 | background | background | background | 5 |
| ENSG00000162631.18 | -2.272553659 | 5 | background | background | 4 |
| ENSG00000162676.11 | 1.119958492 | background | background | 5 | 5 |
| ENSG00000162738.5 | 1.43056148 | background | background | background | 5 |
| ENSG00000162909.17 | -1.414439714 | background | background | background | 5 |
| ENSG00000162931.11 | 1.13341805 | 5 | background | background | 4 |
| ENSG00000162998.4 | 3.176497659 | background | background | background | 5 |
| ENSG00000163121.9 | -1.695454622 | NA | background | background | background |
| ENSG00000163191.5 | -1.201610852 | NA | background | background | 5 |
| ENSG00000163220.10 | 2.702041298 | NA | background | background | 5 |
| ENSG   | ID       | Log2 Fold Change | Gene | CPM     | Coverage | Score |
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| 202    | ENSG00000163393.12 | 1.356008979 | background | background | background | 5     |
| 202    | ENSG00000163395.16 | -3.766322802 | background | background | background | 5     |
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| 202    | ENSG00000163491.16 | 1.135576389  | background | background | background | 5     |
| 202    | ENSG00000163501.6  | 1.648034113  | background | NA       | background | 5     |
| 202    | ENSG00000163590.13 | -1.121056199 | background | background | background | 5     |
| 202    | ENSG0000016363710.7 | 1.788164089  | background | background | background | 5     |
| 202    | ENSG00000163792.6  | 1.863763511  | NA     | background | background | 5     |
| 202    | ENSG00000163803.12 | -1.725799799 | background | background | background | 5     |
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| 202    | ENSG00000163814.7  | -2.193282264 | background | background | background | 5     |
| 202    | ENSG00000163898.9  | -2.301527912 | background | background | background | 5     |
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| 202    | ENSG00000164251.4  | -1.344386447 | NA     | background | background | 5     |
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| 202    | ENSG00000164344.15 | 1.007052641  | background | background | background | 5     |
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| 202    | ENSG00000164484.11 | 2.147016353  | background | background | background | 5     |
| 202    | ENSG00000164509.13 | -2.108680856 | background | background | background | 5     |
| 202    | ENSG00000164574.15 | -1.039405562 | background | background | background | 5     |
| 202    | ENSG00000164591.13 | 2.319453729  | background | background | background | 5     |
| 202    | ENSG00000164626.8  | 1.882436711  | background | background | background | 5     |
| 202    | ENSG00000164683.16 | 1.25803275   | background | background | background | 5     |
| 202    | ENSG00000164796.17 | -1.216501911 | background | background | background | 5     |
| 202    | ENSG00000164946.19 | 1.032619849  | background | background | background | 5     |
| 202    | ENSG00000165078.12 | -1.40543466  | background | background | background | 5     |
| 202    | ENSG00000165188.13 | -1.291067956 | NA     | background | background | 5     |
| 202    | ENSG00000165269.12 | -1.21441328  | background | background | background | 5     |
| 202    | ENSG00000165272.14 | -1.32267771  | background | background | background | 5     |
| 202    | ENSG00000165474.5  | -1.39317985  | NA     | background | background | 5     |
| 202    | ENSG00000165507.8  | 2.713711771  | NA     | background | background | 5     |
| 202    | ENSG00000165643.10 | -1.242532132 | background | background | background | 5     |
| 202    | ENSG00000165716.10 | 1.639647859  | NA     | background | background | 5     |
| 202    | ENSG00000165757.8  | -1.189838912 | background | background | background | 5     |
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| 202    | ENSG00000166025.17 | 1.030746893  | background | background | background | 4     |
| 202    | ENSG00000166046.10 | -1.503693657 | background | background | background | 5     |
| 202    | ENSG00000166145.14 | -1.026626642 | background | background | background | 5     |
| 202    | ENSG00000166341.7  | 3.127510249  | background | background | background | 4     |
| Gene ID | Value | Background | | | |
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| ENSG00000169554.18 | -2.25496119 | background | background | background | 5 |
| ENSG00000169692.12 | -2.322313211 | background | background | background | 5 |
| ENSG00000169752.16 | -1.561712628 | background | background | background | 5 |
| ENSG00000169962.4 | -1.01685945 | background | background | background | 5 |
| ENSG00000170011.13 | -1.174224233 | background | background | background | 5 |
| ENSG00000170345.9 | 1.513010636 | NA | background | background | 5 |
| ENSG00000170396.7 | -1.783018 | background | background | background | 5 |
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| ENSG00000170909.13 | 1.370848165 | NA | NA | background | 5 |
| ENSG00000171345.13 | -1.775615601 | background | background | background | 5 |
| ENSG00000171346.15 | -1.192415101 | background | background | background | 5 |
| ENSG00000171631.14 | 2.157685019 | background | background | background | 5 |
| ENSG00000171798.17 | -1.693315552 | background | background | background | 5 |
| ENSG00000171791.13 | 1.49567902 | background | background | background | 5 |
| ENSG00000171812.12 | 1.411749201 | background | background | background | 5 |
| ENSG00000171877.20 | -1.595297966 | 4 | background | background | 4 |
| ENSG00000171931.12 | 2.331620075 | background | background | background | 5 |
| ENSG00000172137.18 | -1.442033345 | background | background | background | 5 |
| ENSG00000172247.3 | 5.064225895 | NA | background | background | 5 |
| ENSG00000172380.5 | -1.076341957 | background | background | background | 5 |
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| ENSG00000172733.11 | 2.543411754 | NA | background | background | 5 |
| ENSG00000172771.11 | -1.08138857 | background | background | background | 5 |
| ENSG00000172803.17 | 1.511397619 | background | background | background | 5 |
| ENSG00000172818.9 | 3.753262413 | background | background | background | 5 |
| ENSG00000172819.16 | 1.01343221 | background | background | background | 5 |
| ENSG00000172985.10 | 1.672711988 | background | background | background | 5 |
| ENSG00000173175.14 | 3.071178272 | background | background | background | 5 |
| ENSG00000173210.19 | -1.329041618 | background | background | background | 5 |
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| ENSG00000173267.13 | -1.316991677 | background | background | background | 5 |
| ENSG00000173546.7 | 2.182090038 | background | background | background | 5 |
| ENSG00000173702.7 | -1.404344484 | background | background | background | 5 |
| ENSG00000173825.6 | -1.043214222 | NA | background | background | 5 |
| ENSG00000174358.15 | 1.985462905 | background | background | background | 4 |
| ENSG00000174502.18 | -1.674537116 | background | background | background | 5 |
| Gene     | Value   | Sample 1 | Sample 2 | Sample 3 | Sample 4 | Sample 5 |
|----------|---------|----------|----------|----------|----------|----------|
| ENSG00000174600.13 | 2.626532071 | background | background | background | background | 5        |
| ENSG00000174697.4 | 5.71822688  | background | background | background | background | 5        |
| ENSG00000174807.3 | 1.010519765 | NA        | background | background | background | 5        |
| ENSG00000174844.14 | 1.449636757 | background | background | background | background | 5        |
| ENSG00000174871.10 | 1.251608798 | background | background | background | background | 5        |
| ENSG00000175175.5 | 1.55627332  | background | background | background | background | 5        |
| ENSG00000175471.19 | -1.05930953 | background | NA        | background | background | 5        |
| ENSG00000175793.11 | -1.11083767 | background | background | background | background | 5        |
| ENSG00000176381.5 | 1.51835847  | background | background | background | background | 5        |
| ENSG00000176597.11 | -2.349471383 | background | background | background | background | 5        |
| ENSG00000176844.14 | -2.32937986  | background | background | background | background | 5        |
| ENSG00000176884.14 | 3.29098919  | background | background | background | background | 5        |
| ENSG00000177453.7 | 1.02885326  | background | background | background | background | 5        |
| ENSG00000177469.12 | -1.194628576 | background | background | background | background | 5        |
| ENSG00000178233.17 | 2.225873328 | background | background | background | background | 5        |
| ENSG00000178984.14 | 4.124716692 | background | background | background | background | 5        |
| ENSG00000179106.5 | 3.29098919  | background | background | background | background | 5        |
| ENSG00000179817.5 | -1.98267832 | background | background | background | background | 5        |
| ENSG00000179859.9 | -1.23926983 | background | background | background | background | 5        |
| ENSG00000180176.14 | -1.66031492 | background | background | background | background | 5        |
| ENSG00000180340.6 | -1.472371232 | background | background | background | background | 5        |
| ENSG00000180611.6 | -1.117843272 | background | background | background | background | 5        |
| ENSG00000180616.8 | 1.369780351 | background | background | background | background | 5        |
| ENSG00000180644.7 | -1.109932173 | background | background | background | background | 5        |
| ENSG00000180739.13 | 2.100402601 | background | background | background | background | 5        |
| ENSG00000181409.11 | -0.10657404 | background | background | background | background | 5        |
| ENSG00000181418.7 | 1.125058894 | background | background | background | background | 5        |
| ENSG00000181444.12 | 5.713979734 | background | background | background | background | 5        |
| ENSG00000182013.17 | 1.685955005 | background | background | background | background | 5        |
| ENSG00000182459.4 | 3.961711463 | background | background | background | background | 5        |
| ENSG00000182492.15 | 1.997008465 | background | background | background | background | 5        |
| ENSG00000182752.9 | 1.895628327 | background | background | background | background | 5        |
| ENSG00000182866.16 | -1.532318755 | background | background | background | background | 5        |
| ENSG00000182870.8 | 2.946632897 | background | NA        | background | background | 5        |
| ENSG00000183072.9 | 1.618058973 | background | background | background | background | 5        |
| ENSG00000183092.16 | 5.180854793 | background | background | background | background | 5        |
| ENSG00000183248.11 | -1.012902243 | background | background | background | background | 5        |
| ENSG00000183496.5 | -1.026681365 | background | background | background | background | 5        |
| ENSG00000183508.4 | 2.277247801 | NA        | background | background | background | 4        |
| Gene                        | Log2 Fold Change | Description | Chromosome | Position |
|-----------------------------|------------------|-------------|------------|----------|
| ENSG00000183549.10          | 1.07573999       | background  | background | background |
| ENSG00000183747.11          | 1.192606636      | background  | background | background |
| ENSG00000183778.17          | -1.873057837     | background  | background | background |
| ENSG00000183801.7           | 1.330022834      | background  | background | background |
| ENSG00000183828.14          | -1.386125823     | background  | background | background |
| ENSG00000183840.6           | -1.598111621     | background  | background | background |
| ENSG00000183971.6           | 1.220391637      | NA          | background | background |
| ENSG00000184012.11          | -1.12380726      | 5           | background | background |
| ENSG00000184157.4           | -1.097224106     | NA          | background | background |
| ENSG00000184709.7           | -1.863197307     | NA          | background | background |
| ENSG00000184898.6           | -1.278011271     | background  | background | background |
| ENSG00000184922.13          | 1.55822628       | background  | background | background |
| ENSG00000185070.10          | -1.819742633     | NA          | background | background |
| ENSG00000185155.11          | 2.793286205      | NA          | background | background |
| ENSG00000185483.11          | 1.309004448      | background  | background | background |
| ENSG00000185559.13          | 1.454964479      | background  | background | background |
| ENSG00000185567.6           | -2.793443897     | background  | background | background |
| ENSG00000185615.15          | 2.769165075      | background  | background | background |
| ENSG00000185686.17          | 1.674036675      | background  | background | background |
| ENSG00000185905.8           | 1.501035338      | NA          | background | background |
| ENSG00000185989.10          | -1.581517917     | background  | background | background |
| ENSG00000186007.9           | -1.24265687      | NA          | background | background |
| ENSG00000186105.7           | 1.946291922      | NA          | background | background |
| ENSG00000186198.3           | 1.991843407      | background  | background | background |
| ENSG00000186212.3           | -1.037711455     | NA          | background | background |
| ENSG00000186340.14          | -1.530156578     | background  | background | background |
| ENSG00000186340.14          | -1.530156578     | background  | background | background |
| ENSG00000186451.1           | -1.40890587      | NA          | 5          | background |
| ENSG00000186462.8           | -2.044062002     | NA          | background | background |
| ENSG00000186827.10          | 4.869433565      | background  | background | background |
| ENSG00000186838.13          | 2.384199596      | background  | background | background |
| ENSG00000186912.6           | -2.100741188     | NA          | background | background |
| ENSG00000186998.15          | 1.444001593      | background  | background | background |
| ENSG00000187045.16          | -1.140239343     | background  | background | background |
| ENSG00000187134.13          | 1.511165181      | background  | 5          | background |
| ENSG00000187240.13          | -1.340570857     | 5           | NA         | NA        |
| ENSG00000187260.15          | 1.190790896      | background  | background | background |
| ENSG00000187288.10          | -1.228092864     | background  | background | background |
| ENSG00000187566.5           | -1.496954907     | NA          | background | background |
| ENSG00000187583.10          | -1.439313705     | background  | background | background |
| ENSG00000187642.9           | -1.618884606     | NA          | background | background |
| Gene ID       | Log2 Fold Change | Classification | H1 | H2 | Background | Purity |
|--------------|-----------------|----------------|----|----|------------|--------|
| ENSG00000187678.8 | 1.222968597     | NA             | background | background | NA | 5 |
| ENSG00000187837.3 | 1.07300282      | NA             | background | background | NA | background |
| ENSG00000188038.7 | -1.511120497    | NA             | background | background | background | background |
| ENSG00000188042.7 | 1.643912349     | background     | background | background | background | background |
| ENSG00000188064.9 | -2.375823009    | background     | background | background | background | 5 |
| ENSG00000188176.11 | 1.583843943     | background     | background | background | background | background |
| ENSG00000188290.10 | -1.122324941    | background     | background | background | background | background |
| ENSG00000188322.4 | -1.026783763    | background     | background | background | background | 5 |
| ENSG00000188389.10 | 1.127912082     | background     | background | background | background | background |
| ENSG00000188501.11 | 1.106613827     | background     | background | background | background | background |
| ENSG00000188549.12 | -1.481130262    | background     | background | background | background | background |
| ENSG00000188766.12 | -1.019421007    | background     | background | background | background | background |
| ENSG00000188833.9 | 2.412758402     | background     | background | background | background | background |
| ENSG00000189233.11 | 1.217137649     | background     | background | background | background | 5 |
| ENSG00000196139.13 | 1.147491624     | background     | background | background | background | 5 |
| ENSG00000196188.10 | -3.812414616    | background     | background | background | background | 5 |
| ENSG00000196196.2 | -1.051134322    | NA             | background | background | background | 5 |
| ENSG00000196218.12 | 2.93745442      | background     | NA | NA | 5 | 5 |
| ENSG00000196218.12 | 2.93745442      | 5 | NA | NA | 5 | 5 |
| ENSG00000196338.12 | 3.10724364     | background     | background | background | background | background |
| ENSG00000196420.7 | -2.179246198    | background     | background | background | background | background |
| ENSG00000196557.12 | -1.107424214    | background     | background | background | background | background |
| ENSG00000196611.4 | -4.883206922    | background     | background | background | background | 5 |
| ENSG00000196678.14 | -2.69694095     | background     | background | background | background | 5 |
| ENSG00000197181.11 | 1.13589714      | background     | background | background | background | 5 |
| ENSG00000197272.2 | 1.721361457     | background     | background | background | background | 5 |
| ENSG00000197380.10 | 1.539717185     | background     | background | background | background | background |
| ENSG00000197442.9 | -3.137484158    | 5 | background | background | background | 5 |
| ENSG00000197558.11 | -1.354308818    | background     | NA | background | background | 5 |
| ENSG00000197594.11 | 1.200294942     | background     | background | background | background | 5 |
| ENSG00000197599.12 | -1.08089083     | background     | background | background | background | background |
| ENSG00000197632.8 | -2.89447748     | background     | background | background | background | background |
| ENSG00000197653.15 | 1.88360424      | 5 | background | background | background | 5 |
| ENSG00000197705.9 | 1.062703747     | background     | background | background | background | 4 | 4 |
| ENSG00000197956.9 | -1.114050945    | NA             | background | background | background | background |
| ENSG00000198074.9 | 2.224778651     | background     | background | background | background | background |
| ENSG00000198125.12 | 2.38181072      | background     | background | background | background | 5 |
| ENSG00000198515.13 | -1.069509498    | background     | background | background | background | 5 |
| ENSG00000198610.10 | 1.582291684     | background     | background | background | background | background |
| Gene ID | Description | Value | Note | Background | Additional Note |
|---------|-------------|-------|------|------------|-----------------|
| 202     | ENSG00000198650.10 | 1.814814686 | background | background | background |
| 202     | ENSG00000198682.12 | -1.767249254 | background | background | background |
| 202     | ENSG00000198797.6 | -1.980382711 | background | background | background |
| 202     | ENSG00000198848.12 | 1.800875382 | background | background | background |
| 202     | ENSG00000198910.12 | -1.733766755 | background | background | background |
| 202     | ENSG00000198933.9 | 1.832707803 | background | background | background |
| 202     | ENSG00000204248.10 | 1.160872255 | background | background | background |
| 202     | ENSG00000204390.9 | 1.029674664 | NA | background | background |
| 202     | ENSG00000204540.10 | -3.45757244 | background | background | background |
| 202     | ENSG00000204653.9 | -1.236006087 | background | background | background |
| 202     | ENSG00000204681.10 | -1.239481092 | background | background | background |
| 202     | ENSG00000205277.9 | 2.118626856 | background | NA | background |
| 202     | ENSG00000205336.11 | -1.213993436 | background | background | background |
| 202     | ENSG00000205364.3 | 1.459869211 | NA | background | background |
| 202     | ENSG00000205426.10 | -3.518086406 | background | background | background |
| 202     | ENSG00000205517.12 | -1.26648124 | background | background | background |
| 202     | ENSG00000205922.4 | -1.044737773 | NA | background | background |
| 202     | ENSG00000206150.3 | 2.891804736 | NA | background | background |
| 202     | ENSG00000212724.3 | -2.57564706 | NA | background | background |
| 202     | ENSG00000212901.3 | -1.56960603 | background | background | background |
| 202     | ENSG00000213420.7 | -1.583147597 | background | background | background |
| 202     | ENSG00000213626.11 | -3.021949833 | background | background | background |
| 202     | ENSG00000213654.9 | 1.613021339 | background | background | background |
| 202     | ENSG00000213694.3 | 1.3564261 | NA | background | background |
| 202     | ENSG00000213886.3 | -1.904852301 | NA | background | background |
| 202     | ENSG00000214357.8 | -1.383252992 | NA | background | background |
| 202     | ENSG00000214967.5 | 2.667602431 | background | background | background |
| 202     | ENSG00000215217.6 | 2.091206758 | NA | background | background |
| 202     | ENSG00000215644.9 | 2.771570185 | background | background | background |
| 202     | ENSG00000219607.3 | -1.002292438 | NA | background | background |
| 202     | ENSG00000221890.3 | -1.029644766 | NA | background | background |
| 202     | ENSG00000221988.12 | 1.061760263 | background | background | background |
| 202     | ENSG00000223573.6 | 2.272160441 | background | background | background |
| 202     | ENSG00000226321.5 | -1.326220611 | background | background | background |
| 202     | ENSG00000227471.8 | 1.465345027 | NA | NA | background |
| 202     | ENSG00000235162.8 | -1.192161171 | background | background | background |
| 202     | ENSG00000235750.9 | -1.062476721 | background | background | background |
| 202     | ENSG00000237289.9 | -1.03190315 | background | background | background |
| 202     | ENSG00000237412.6 | 1.565639953 | background | background | background |
| 202     | ENSG00000240694.8 | 2.036597763 | background | background | background |
| 202     | ENSG00000241322.4 | 2.158680105 | NA | background | background |
| ENSG00000241399.6 | 1.096959898 | NA | background | background | background |
|------------------|-------------|----|------------|------------|------------|
| ENSG00000241484.9 | 1.514455109 | background | background | background | 5          |
| ENSG00000241635.7 | 2.215586197 | background | 5 | background | 5          |
| ENSG00000241697.4 | 1.114850723 | background | background | background | 5          |
| ENSG00000242173.8 | 1.628266199 | background | background | background | background |
| ENSG00000243978.8 | -2.507534437 | background | background | 5 | 4          |
| ENSG00000244868.8 | 1.149284723 | background | background | background | background |
| ENSG00000248405.10 | 3.003262277 | background | background | background | 5          |
| ENSG00000248746.5 | 2.375520037 | background | background | background | 4          |
| ENSG00000249158.6 | -2.665096939 | background | background | background | background |
| ENSG00000249992.1 | -1.780946062 | NA | background | background | background |
| ENSG00000251493.4 | 1.202026131 | NA | background | background | background |
| ENSG00000251664.3 | -2.770563121 | NA | background | background | background |
| ENSG00000252350.2 | 2.280634899 | background | background | background | background |
| ENSG00000253304.1 | 1.353089485 | NA | background | background | 5          |
| ENSG00000253313.5 | 1.346509243 | NA | background | background | background |
| ENSG00000253958.1 | -1.189244897 | NA | background | background | background |
| ENSG00000254415.3 | 1.523241812 | background | background | background | background |
| ENSG00000254656.1 | 2.446520129 | NA | background | background | background |
| ENSG00000254827.5 | 1.136743977 | NA | background | background | 4          |
| ENSG00000255150.2 | 1.205372830 | NA | background | background | background |
| ENSG00000258405.9 | -2.967288913 | background | background | NA | 5          |
| ENSG00000258659.6 | -1.692682617 | background | background | background | 5          |
| ENSG00000258947.6 | -1.087257325 | background | background | background | 5          |
| ENSG00000259207.7 | -1.304184350 | background | background | background | 5          |
| ENSG00000261150.2 | -1.1779275 | background | background | background | background |
| ENSG00000261341.6 | 1.331035826 | NA | background | background | background |
| ENSG00000263639.5 | 2.059916692 | background | background | background | 5          |
| ENSG00000265763.3 | -1.348887202 | NA | background | background | background |
| ENSG00000266094.7 | -1.165928874 | background | background | background | 5          |
| ENSG00000266714.7 | -2.027723671 | background | NA | NA | 5          |
| ENSG00000266964.5 | 2.009279274 | background | background | background | background |
| ENSG00000269113.3 | 2.405163911 | background | background | 5 | 5          |
| ENSG00000270276.2 | 1.432977591 | NA | background | background | background |
| ENSG00000270299.1 | 1.569724942 | NA | background | background | 5          |
| ENSG00000270647.5 | -1.217098786 | background | background | background | 5          |
| ENSG00000272196.2 | 1.148534758 | NA | background | background | background |
| ENSG00000272573.5 | 3.334660946 | background | background | background | background |
| ENSG00000273238.2 | 2.40576689 | background | background | background | background |
| ENSG00000275152.4 | 1.052467303 | background | background | background | background |
| ENSG00000275713.2 | -1.261013845 | NA | NA | background | background |
| Gene ID           | Value       | Expression | Background1 | Background2 | Background3 | Background4 | Background5 |
|------------------|-------------|------------|-------------|-------------|-------------|-------------|-------------|
| ENSG00000275832.4 | 1.081089392 | 5          | background  | background  | background  | background  | background  |
| ENSG00000276180.1 | 1.320858169 | NA         | background  | background  | background  | background  | background  |
| ENSG00000277117.4 | -1.151362769| background | background  | background  | background  | background  | background  |
| ENSG0000027481.1  | 2.96698242  | NA         | background  | NA          | background  | background  | background  |
| ENSG0000005108.15 | -2.860821804| background | background  | background  | background  | background  | background  |
| ENSG0000005243.9  | 1.1805852   | 5          | background  | background  | background  | background  | background  |
| ENSG00000005108.15| -2.314651992| 5          | background  | background  | background  | background  | background  |
| ENSG00000005243.9  | 2.025636256 | background | background  | background  | background  | background  | background  |
| ENSG00000005844.17| 1.43711968  | 5          | background  | background  | background  | background  | background  |
| ENSG00000007001.12| 2.116591191 | background | background  | background  | background  | background  | background  |
| ENSG00000007312.12| 2.428860167 | background | background  | background  | background  | background  | background  |
| ENSG000000079393.20| 1.244050765 | background | background  | background  | background  | background  | background  |
| ENSG000000082014.16| 1.43535866  | 5          | background  | background  | background  | background  | background  |
| ENSG000000084628.9 | 1.075243641 | background | background  | background  | background  | background  | background  |
| ENSG000000087237.10| 1.282945689 | background | background  | background  | background  | background  | background  |
| ENSG000000089327.14| -1.192658376| background | background  | background  | background  | background  | background  |
| ENSG000000091138.12| 1.477686162 | background | background  | background  | background  | background  | background  |
| ENSG000000091704.9 | 2.235158358 | background | background  | background  | background  | background  | background  |
| ENSG000000091879.13| -2.01377726 | 5          | background  | background  | background  | background  | background  |
| ENSG000000092054.12| 1.746250285 | background | background  | background  | background  | background  | background  |
| ENSG000000092529.23| 1.231000688 | background | background  | background  | background  | background  | background  |
| ENSG000000095970.16| 1.611268954 | background | background  | background  | background  | background  | background  |
| ENSG000000099139.13| -1.131951375| 5          | background  | background  | background  | background  | background  |
| ENSG000000100055.20| -2.314651992| background | background  | background  | background  | background  | background  |
| ENSG000000100558.8 | 1.550185315 | background | background  | background  | background  | background  | background  |
| ENSG000000101349.16| 1.682404052 | background | background  | background  | background  | background  | background  |
| ENSG000000103375.10| 1.785990415 | background | background  | background  | background  | background  | background  |
| ENSG00000010455.15 | 1.470998534 | background | background  | background  | background  | background  | background  |
| ENSG000000104327.7 | 3.06230042  | background | background  | background  | background  | background  | background  |
| ENSG000000105246.5 | 1.366463761 | background | background  | background  | background  | background  | background  |
| ENSG000000105290.11| 1.055731386 | background | background  | background  | background  | background  | background  |
| ENSG000000105650.21| 1.837347425 | background | background  | background  | background  | background  | background  |
| ENSG000000105697.7 | 1.297513161 | NA         | background  | background  | background  | background  | background  |
| ENSG00000105825.11 | -1.345621167 | NA | background | background | background | background |
| ENSG00000105877.17 | -1.330624933 | background | background | background | 3 |
| ENSG00000110479.10 | 1.173673192 | background | background | background | 5 |
| ENSG00000106823.12 | 2.861394152 | 5 | background | background | 4 |
| ENSG00000107159.12 | -1.259314622 | background | background | background | background |
| ENSG00000108309.13 | 2.772557288 | background | background | background | background |
| ENSG00000108387.14 | 1.226103457 | background | background | background | background |
| ENSG00000108602.17 | 1.110633311 | background | background | background | 5 |
| ENSG00000109832.13 | 2.238745928 | background | background | background | background |
| ENSG00000110887.7 | 2.258873581 | background | background | background | background |
| ENSG00000111344.11 | 2.028020612 | background | background | background | 5 |
| ENSG00000111348.8 | 1.343199788 | 5 | background | background | 5 |
| ENSG00000111424.10 | 1.712371202 | background | background | background | 5 |
| ENSG00000111913.17 | 1.084563487 | background | background | background | 4 |
| ENSG00000111962.7 | 2.59940215 | background | background | background | 4 |
| ENSG00000113889.11 | 1.331250008 | background | background | background | background |
| ENSG00000114349.9 | 3.076164891 | background | background | background | background |
| ENSG00000115155.16 | 1.718432135 | background | background | background | 5 |
| ENSG00000115339.13 | 1.595021103 | background | background | background | 4 |
| ENSG00000115353.10 | 2.839083031 | background | background | background | 4 |
| ENSG00000115461.4 | -1.796039473 | background | background | background | background |
| ENSG00000116117.17 | 1.10358477 | 5 | background | background | 4 |
| ENSG00000116299.16 | 1.370979351 | background | background | background | 4 |
| ENSG00000117407.16 | 1.243868468 | background | background | background | background |
| ENSG00000118094.11 | 1.530597102 | background | background | background | background |
| ENSG00000118271.9 | 1.050215526 | background | background | background | background |
| ENSG00000118507.15 | -1.436914288 | 5 | background | background | 4 |
| ENSG00000118514.13 | 1.649305439 | background | background | background | 5 |
| ENSG00000118997.13 | 1.579007707 | 5 | background | background | 4 |
| ENSG00000119025.9 | 1.256547717 | background | background | background | 5 |
| ENSG00000120438.11 | -1.170096216 | background | background | background | 5 |
| ENSG00000121101.15 | 1.748785634 | background | background | background | 5 |
| ENSG00000121270.15 | 1.820673103 | background | background | background | 5 |
| ENSG00000121552.3 | 1.052813297 | NA | background | background | 4 |
| ENSG00000121858.10 | 1.105253749 | background | background | background | 5 |
| ENSG00000122574.10 | 1.106551059 | background | background | background | 4 |
| ENSG00000124568.10 | 1.457864711 | background | background | background | 5 |
| ENSG00000124713.5 | 1.034927198 | background | background | background | 5 |
| ENSG00000127951.6 | 1.198293108 | NA | background | background | background |
| Gene       | Value       | Function | Effect  | Description |
|------------|-------------|----------|---------|-------------|
| ENSG00000128645.14 | -1.085816191 | NA       | background | background |
| ENSG00000129214.14 | 1.534305914 | background | background | background |
| ENSG00000129988.5 | 1.045791749 | 5        | background | background |
| ENSG00000130234.10 | 1.399708536 | 4        | background | background |
| ENSG00000130477.15 | 1.926396913 | background | NA       | background |
| ENSG00000130598.15 | 1.505835708 | background | NA       | background |
| ENSG00000130701.3 | 1.102248769 | background | background | background |
| ENSG00000131482.9 | 1.018435108 | background | background | background |
| ENSG00000133433.10 | 1.084782849 | background | background | background |
| ENSG00000133420.11 | 1.757590745 | background | background | background |
| ENSG00000133422.15 | 2.659830117 | background | background | background |
| ENSG00000133573.12 | -1.112565888 | background | background | background |
| ENSG00000133574.9 | -1.006713138 | background | background | background |
| ENSG000001336274.8 | 1.664593404 | background | background | background |
| ENSG000001336286.14 | 1.789651087 | 5        | background | background |
| ENSG000001336960.12 | 1.029937305 | background | background | background |
| ENSG000001337204.14 | 1.29502726 | background | background | background |
| ENSG000001337752.23 | 1.41784637 | background | background | background |
| ENSG000001337869.14 | 1.001298039 | background | background | background |
| ENSG00000133829.11 | 2.594606839 | background | background | background |
| ENSG00000133829.11 | 2.594606839 | background | background | background |
| ENSG000001339055.6 | 1.018860163 | background | background | background |
| ENSG000001339410.14 | 1.11693001 | background | background | background |
| ENSG000001339914.6 | 1.310092929 | background | background | background |
| ENSG000001339988.9 | 1.170684412 | background | background | background |
| ENSG000001340107.10 | 1.058661902 | background | background | background |
| ENSG000001340675.12 | 1.202324732 | background | background | background |
| ENSG000001342173.14 | 2.384768872 | background | background | background |
| ENSG000001342185.16 | 1.281588856 | background | background | background |
| ENSG000001342765.17 | 1.173736597 | background | background | background |
| ENSG000001343217.8 | 1.117712645 | background | background | background |
| ENSG000001343387.12 | 1.211378303 | background | background | background |
| ENSG000001343631.10 | 1.214103055 | background | background | background |
| ENSG000001344035.3 | 1.017392406 | NA       | background | background |
| ENSG000001344130.11 | 1.177696623 | background | background | background |
| ENSG000001344452.14 | 1.372299164 | background | background | background |
| ENSG000001344596.12 | 1.743804345 | background | background | background |
| ENSG000001344891.17 | 1.262907964 | NA       | background | background |
| ENSG000001345113.21 | 2.355852111 | background | background | background |
| ENSG000001346233.7 | -1.502697222 | background | background | background |
| ENSG000001346755.10 | 1.084767241 | background | background | background |
| Gene ID      | Value       | Background | Background | Background | Background |
|-------------|-------------|------------|------------|------------|------------|
| ENSG00000147003.5 | 1.052599713 | background | background | background | background |
| ENSG00000148344.10 | 1.463365823 | background | background | background | background |
| ENSG00000149043.16 | 1.706626233 | background | background | background | background |
| ENSG00000149527.17 | 1.08805631 | background | background | background | background |
| ENSG00000150281.6 | 1.038136022 | background | background | background | background |
| ENSG00000151640.12 | 1.151805656 | background | background | background | background |
| ENSG00000151967.18 | -1.636840191 | background | background | background | background |
| ENSG00000152137.6 | 1.030159633 | background | background | background | background |
| ENSG00000153029.14 | 1.051129325 | NA | background | background | background |
| ENSG00000153531.13 | 1.103361854 | background | background | background | background |
| ENSG00000154310.16 | -1.3386351 | background | background | background | background |
| ENSG00000154358.20 | 1.355480353 | NA | NA | NA | NA |
| ENSG00000155428.12 | 1.640546173 | NA | background | background | background |
| ENSG00000155849.15 | 1.534669741 | background | background | background | background |
| ENSG00000156006.4 | 1.814958189 | NA | background | background | background |
| ENSG00000156194.17 | 4.516151843 | background | background | background | background |
| ENSG00000156222.11 | 1.13894114 | background | background | background | background |
| ENSG00000158055.15 | 2.125729901 | background | background | background | background |
| ENSG00000158428.3 | 1.739590896 | background | background | background | background |
| ENSG00000158859.9 | -1.21408058 | background | background | background | background |
| ENSG00000160323.18 | 1.045105159 | background | background | background | background |
| ENSG00000161031.12 | 1.525006259 | background | background | background | background |
| ENSG00000161544.9 | 2.150740505 | background | background | background | background |
| ENSG00000161896.11 | 1.994358049 | background | background | background | background |
| ENSG00000162039.14 | 1.336544295 | 5 | background | background | background |
| ENSG00000162267.12 | 1.140227534 | background | background | background | background |
| ENSG00000162366.7 | 1.09339595 | background | background | background | background |
| ENSG00000162511.7 | 1.232663104 | background | background | background | background |
| ENSG00000162572.20 | 1.620563687 | 5 | background | background | background |
| ENSG00000162643.12 | 2.545754051 | background | background | background | background |
| ENSG00000163131.10 | 1.724483416 | background | background | background | background |
| ENSG00000163430.11 | 1.531117087 | background | background | background | background |
| ENSG00000163687.13 | 1.448051982 | background | background | background | background |
| ENSG00000163810.11 | 1.091504725 | background | background | background | background |
| ENSG00000163914.4 | 1.56488907 | background | background | background | background |
| ENSG00000164266.10 | 1.088802722 | background | background | background | background |
| ENSG00000164344.15 | 1.111826655 | background | background | background | background |
| ENSG00000165197.4 | 1.645732283 | background | background | background | background |
| ENSG00000165449.11 | 1.71011326 | background | background | background | background |
| ENSG00000165698.15 | 1.070825596 | background | background | background | background |
| ENSG00000165953.9 | 1.145041433 | background | background | background | background |
| Gene ID | Chromosome | Score | Background 1 | Background 2 | Background 3 | Background 4 | Background 5 | Chromosome 6 |
|---------|-------------|-------|--------------|--------------|--------------|--------------|--------------|--------------|
| ENSG00000166268.10 | 206 | 3.047367792 | background | background | background | background | 3 |
| ENSG00000166592.11 | 206 | 1.126486065 | background | background | background | background | 5 |
| ENSG00000166741.7 | 206 | 2.163783817 | background | background | background | background | 5 |
| ENSG00000166743.9 | 206 | 1.053213132 | background | background | background | background | 5 |
| ENSG00000166816.13 | 206 | 1.00836449 | background | background | background | background | 5 |
| ENSG00000166819.11 | 206 | 1.589060994 | background | background | background | background | 5 |
| ENSG00000166819.11 | 206 | 1.110961765 | background | background | background | background | 5 |
| ENSG00000166963.12 | 206 | 1.23430225 | background | background | background | background | 4 |
| ENSG00000167183.2 | 206 | 1.039834959 | NA | background | background | background | 5 |
| ENSG00000167800.9 | 206 | 1.205825205 | background | background | background | background | 5 |
| ENSG00000167910.3 | 206 | 1.629846357 | background | background | background | background | 5 |
| ENSG00000168298.6 | 206 | -1.026675433 | NA | background | background | background | 5 |
| ENSG00000168785.7 | 206 | -1.082892353 | NA | background | background | background | 4 |
| ENSG00000169085.11 | 206 | 1.837929785 | background | background | background | background | 5 |
| ENSG00000169169.14 | 206 | -1.530973894 | background | background | background | background | 4 |
| ENSG0000017006.11 | 206 | 1.310944447 | background | background | background | background | 5 |
| ENSG00000170324.20 | 206 | 1.536709664 | background | background | background | background | 3 |
| ENSG00000170835.14 | 206 | 1.035597968 | background | background | background | background | 3 |
| ENSG00000170890.13 | 206 | 1.49365688 | background | background | background | background | 3 |
| ENSG00000170959.14 | 206 | 1.329579256 | background | background | background | background | 3 |
| ENSG00000171540.7 | 206 | 1.669710492 | background | background | background | background | 3 |
| ENSG00000171631.14 | 206 | 1.19246452 | background | background | background | background | 5 |
| ENSG00000171931.12 | 206 | 2.561114428 | background | background | background | background | 5 |
| ENSG00000172073.3 | 206 | 1.386587064 | background | background | background | background | 5 |
| ENSG00000172367.15 | 206 | 1.583648891 | background | background | background | background | 5 |
| ENSG00000172478.17 | 206 | 1.015275761 | background | background | background | background | 5 |
| ENSG00000172738.11 | 206 | 1.154783848 | background | background | background | background | 5 |
| ENSG00000173156.6 | 206 | 1.19425722 | background | background | background | background | 5 |
| ENSG00000173175.14 | 206 | 2.293960458 | background | background | background | background | 5 |
| ENSG00000173406.15 | 206 | 1.660438797 | background | background | background | background | 4 |
| ENSG00000173714.7 | 206 | 1.816693853 | NA | background | background | background | 5 |
| ENSG00000174898.15 | 206 | 2.750124023 | background | background | background | background | 4 |
| ENSG00000175356.12 | 206 | 2.785522603 | background | background | background | background | 4 |
| ENSG00000175513.9 | 206 | 2.96625709 | background | background | background | background | 5 |
| ENSG00000176381.5 | 206 | 1.379174742 | NA | background | background | background | 4 |
| ENSG00000177098.8 | 206 | 1.733252962 | background | background | background | background | 5 |
| ENSG00000178809.7 | 206 | 1.298541242 | NA | background | background | background | 4 |
| ENSG00000179023.8 | 206 | 1.60608624 | NA | NA | background | background | 4 |
| ENSG00000179715.12 | 206 | 1.013080971 | background | background | background | background | 4 |
| Gene          | Value     | Value2    | Value3    | Value4    | Value5    |
|--------------|-----------|-----------|-----------|-----------|-----------|
| ENSG00000180061.9 | 1.64467067 | background | background | background | background |
| ENSG00000180532.10 | 1.081840321 | background | 5         | background | 5         |
| ENSG00000182326.14 | 1.128503707 | background | background | background | background |
| ENSG00000182866.16 | -1.115885702 | background | background | background | background |
| ENSG00000182950.2  | 1.102800533 | NA        | background | background | background |
| ENSG00000183087.14 | 1.376465662 | NA        | background | background | background |
| ENSG00000183134.4  | 1.242365594 | background | background | background | 4         |
| ENSG00000184113.9  | -1.317205823 | NA        | background | background | background |
| ENSG00000184659.4  | 1.656418788 | NA        | background | background | background |
| ENSG00000185155.11 | 1.396893124 | NA        | background | background | background |
| ENSG00000185669.5  | 1.140707984 | NA        | background | background | background |
| ENSG00000185933.6  | 1.303251416 | NA        | 5         | background | 5         |
| ENSG00000185958.9  | 1.818836063 | 5         | NA        | background | 5         |
| ENSG00000186115.12 | 1.185216268 | background | background | background | 5         |
| ENSG00000186583.7  | 1.922913225 | background | background | background | background |
| ENSG00000186994.11 | 1.311351815 | background | background | background | background |
| ENSG00000187186.14 | 1.112926776 | NA        | background | background | background |
| ENSG00000187288.10 | 1.147663963 | background | background | background | background |
| ENSG00000187922.13 | -1.574055951 | background | background | background | 5         |
| ENSG00000188659.9  | 2.149066742 | background | background | background | 5         |
| ENSG00000188761.11 | 1.928069419 | background | background | background | 4         |
| ENSG00000188833.9  | 1.391309113 | background | background | background | background |
| ENSG00000196337.11 | 2.828850222 | NA        | background | background | background |
| ENSG00000196361.9  | 2.507339697 | background | background | background | background |
| ENSG00000196600.12 | 1.289719531 | background | NA        | background | 5         |
| ENSG00000197191.4  | 1.178730191 | NA        | background | background | background |
| ENSG00000197653.15 | 3.014949495 | background | background | background | 5         |
| ENSG00000197653.15 | 3.014949495 | background | background | background | 5         |
| ENSG00000197768.10 | 1.298551765 | background | background | background | background |
| ENSG00000198203.9  | 1.356066096 | background | background | background | background |
| ENSG00000198569.9  | 1.091717306 | background | background | background | background |
| ENSG00000198785.4  | 1.40634539  | background | background | 5         | 4         |
| ENSG00000203985.10 | 1.02017501 | background | background | background | 5         |
| ENSG00000204252.13 | 1.213643913 | background | background | background | background |
| ENSG00000204301.6  | -1.479314936 | background | background | background | background |
| ENSG00000204653.9  | 1.05565025  | background | background | background | background |
| ENSG00000204978.2  | 1.528135155 | NA        | background | background | background |
| ENSG00000205639.10 | 1.370601367 | background | background | background | 5         |
| ENSG00000213626.11 | -1.601200141 | background | background | background | 5         |
| ENSG00000213759.9  | 1.086527634 | background | background | background | 5         |
| Gene ID          | Accession Number | Log2 Fold Change | p-value | Status | Age | Feature 1 | Feature 2 | Feature 3 | Feature 4 |
|-----------------|------------------|-----------------|---------|--------|-----|-----------|-----------|-----------|-----------|
| ENSG00000213886.3 | 1.059300131      | NA              | background | background | 5   | 1.059300131 | NA        | background | background |
| ENSG00000214140.10 | 1.325373146      | NA              | background | background | 5   | 1.325373146 | NA        | background | background |
| ENSG00000214456.8 | 1.232530636      | background      | background | background | 5   | background | background | background | background |
| ENSG00000215906.8 | 1.521145212      | NA              | background | background | 5   | NA        | NA        | background | background |
| ENSG00000224383.7 | 1.204788053      | background      | background | background | 5   | background | background | background | background |
| ENSG00000226733.2 | 1.504893904      | NA              | background | background | 4   | 1.504893904 | NA        | background | background |
| ENSG00000231387.1 | -2.120642947     | background      | background | background | 5   | -2.120642947 | NA        | background | background |
| ENSG00000231852.6 | 1.128608171      | background      | background | background | 5   | 1.128608171 | NA        | background | background |
| ENSG00000233198.3 | 1.564129358      | background      | background | background | 5   | 1.564129358 | NA        | background | background |
| ENSG00000241635.7 | 1.113351578      | background      | background | background | 5   | 1.113351578 | NA        | background | background |
| ENSG00000243910.7 | 2.964215329      | background      | background | background | 4   | 2.964215329 | background | background | background |
| ENSG00000244067.2 | 1.039043135      | background      | background | background | 4   | 1.039043135 | background | background | background |
| ENSG00000253313.5 | 1.443664366      | NA              | background | background | 5   | NA        | NA        | background | background |
| ENSG00000259207.7 | 1.099233694      | background      | background | background | 5   | 1.099233694 | NA        | background | background |
| ENSG00000262179.2 | 1.44562038       | background      | background | background | 5   | 1.44562038 | background | background | background |
| ENSG00000272414.5 | 1.391365776      | background      | background | background | 4   | 1.391365776 | background | background | background |
| ENSG00000276368.1 | -1.034535287     | NA              | background | background | 5   | -1.034535287 | NA        | background | background |
| ENSG00000278195.1 | 1.281160076      | background      | background | background | 5   | 1.281160076 | NA        | background | background |
| ENSG000000005844.17 | 1.302337784      | 5 background    | background | background | 4   | 1.302337784 | 5 background | background | background |
| ENSG000000020181.17 | -1.079824587     | 3              | background | background | 4   | -1.079824587 | 3 background | background | background |
| ENSG000000049540.16 | 1.20725645      | 4              | background | background | 4   | 1.20725645 | 4 background | background | background |
| ENSG000000055955.15 | 2.023175787     | 5              | background | background | 5   | 2.023175787 | 5 background | background | background |
| ENSG000000055957.10 | 1.48382955      | 5              | background | background | 5   | 1.48382955 | 5 background | background | background |
| ENSG000000058335.15 | 1.092102337     | 4              | background | background | 4   | 1.092102337 | 4 background | background | background |
| ENSG000000063438.16 | -1.040948807    | 3              | background | background | 3   | -1.040948807 | 3 background | background | background |
| ENSG000000085741.12 | 1.160597631     | 4              | background | background | 4   | 1.160597631 | 4 background | background | background |
| ENSG000000087076.8 | 1.05866318      | 5              | background | background | 5   | 1.05866318 | 5 background | background | background |
| ENSG000000092529.23 | 1.000361638     | 4              | background | background | 4   | 1.000361638 | 4 background | background | background |
| ENSG000000099365.10 | 1.1437048      | 5              | background | background | 5   | 1.1437048 | 5 background | background | background |
| ENSG00000100461.17 | 1.163480605     | 4              | 5 background | background | 4   | 1.163480605 | 4 5 background | background | background |
| ENSG00000100784.10 | -1.175870109    | 4              | background | background | 4   | -1.175870109 | 4 background | background | background |
| ENSG00000103375.10 | 1.264315264     | 5              | background | background | 5   | 1.264315264 | 5 background | background | background |
| ENSG00000105519.15 | 1.073805042     | background      | background | background | 5   | 1.073805042 | background | background | background |
| ENSG00000106479.10 | 1.344122204     | 5              | background | background | 5   | 1.344122204 | 5 background | background | background |
| ENSG00000108602.17 | 1.727721273     | 5              | background | background | 5   | 1.727721273 | 5 background | background | background |
| ENSG00000111424.10 | 1.05029172      | 4              | background | background | 4   | 1.05029172 | 4 background | background | background |
| ENSG00000112936.18 | -1.00555953     | 4              | background | background | 4   | -1.00555953 | 4 background | background | background |
| ENSG00000118507.15 | -1.39398257     | 3              | background | background | 3   | -1.39398257 | 3 background | background | background |
| ENSG00000127507.17 | 1.078576252     | 4              | background | background | 4   | 1.078576252 | 4 background | background | background |
| ENSG00000130598.15 | 1.06924458      | 5              | background | background | 5   | 1.06924458 | 5 background | background | background |
| ENSG00000130701.3 | 1.163925401     | 5              | background | background | 5   | 1.163925401 | 5 background | background | background |
| Gene ID          | Log2 Fold Change | Background | Background | Background | Length |
|-----------------|-----------------|------------|------------|------------|--------|
| ENSG00000131089.15 | -1.185488194     | background | background | background | 3      |
| ENSG00000132016.11 | -1.064083913     | 5          | background | 5          | 5      |
| ENSG00000135439.11 | 1.100114613      | 5          | background | 5          | 3      |
| ENSG00000136859.9 | 1.076262395      | 5          | background | background | 4      |
| ENSG00000136960.12 | 1.325139751      | 5          | background | background | 3      |
| ENSG00000143994.13 | 1.275111703      | background | background | background | 5      |
| ENSG00000145287.10 | 1.118458387      | background | background | background | 4      |
| ENSG00000149043.16 | 1.789118141      | 5          | background | background | 5      |
| ENSG00000153531.13 | 1.0111367        | background | background | background | 4      |
| ENSG00000154310.16 | -1.27329795     | 4          | 5          | 5          | 3      |
| ENSG00000158008.9 | 1.074275374      | background | background | background | 5      |
| ENSG00000160097.16 | 1.010641777      | background | background | background | 4      |
| ENSG00000161671.16 | 1.393703046      | background | background | 5          | 5      |
| ENSG00000162572.20 | 1.034721263      | background | background | background | 5      |
| ENSG00000163328.13 | 1.068794549      | 5          | background | 5          | 4      |
| ENSG00000164406.7 | 1.043768415      | background | 5          | background | 5      |
| ENSG00000165949.12 | 1.153417069      | background | background | 5          | 4      |
| ENSG00000168453.14 | 1.523184518      | 5          | background | background | 4      |
| ENSG00000170006.11 | 2.047889126      | 5          | background | 5          | 4      |
| ENSG00000171631.14 | 1.168916659      | background | background | background | 4      |
| ENSG00000174326.11 | 1.213037932      | NA         | background | background | background |
| ENSG00000180336.17 | 1.395784476      | background | background | 5          | 4      |
| ENSG00000184922.13 | 1.298659009      | background | background | background | 5      |
| ENSG00000186409.14 | 1.05903423      | 5          | NA         | background | 4      |
| ENSG00000205593.11 | 1.102009907      | background | background | background | 5      |
| ENSG00000214456.8 | 1.204778894      | background | background | background | background |
| ENSG00000250510.7 | 1.141628283      | 5          | 5          | 5          | 5      |
| ENSG00000260342.2 | -1.032264111     | background | background | NA         | 4      |
| ENSG00000270276.2 | 1.284618474      | NA         | background | background | 5      |
| ENSG00000277363.4 | 1.223026658      | 5          | background | 4          | 4      |
| ENSG0000001561.6 | 3.123740799      | background | background | background | background |
| ENSG0000001617.11 | -1.331778688     | background | background | background | background |
| ENSG0000002586.18 | -1.265015582     | NA         | background | background | 4      |
| ENSG0000002586.18 | -1.265015582     | NA         | background | background | 4      |
| ENSG0000004139.13 | 2.448388885      | background | background | background | 5      |
| ENSG0000004478.7 | 1.039230852      | background | background | background | background |
| ENSG0000004660.14 | -1.140841489     | background | background | background | background |
| ENSG0000004777.18 | -2.089825688     | background | background | background | 5      |
| ENSG0000004799.7 | 3.675810345      | background | background | background | background |
| ENSG0000005073.5 | 3.8998474       | NA         | background | background | background |
| ENSG0000005469.11 | 1.254480207      | background | background | background | background |
| Gene ID          | log2 Fold Change | p-value  | Adj. p-value | Annotation  |
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| ENSG000000005513.9 | 4.546595267     | background | background | background |
| ENSG000000006015.17 | -1.12952491     | background | background | background |
| ENSG000000006047.12 | 1.62434466     | background | background | background |
| ENSG000000006530.15 | -1.274053578   | background | background | background |
| ENSG000000006534.15 | -1.301731728   | background | background | background |
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| ENSG000000006837.11 | 1.03097192     | background | background | background |
| ENSG000000007171.16 | 3.57421661      | background | background | background |
| ENSG000000007255.10 | -1.124909351   | background | background | background |
| ENSG000000007264.14 | 3.215172118     | background | background | background |
| ENSG000000007384.15 | 1.125849204     | background | background | background |
| ENSG000000007545.15 | 1.004866714     | background | NA          | background |
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| ENSG000000008256.15 | 1.212911439     | background | background | background |
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| ENSG000000008394.12 | -1.186235323    | background | background | background |
| ENSG000000009724.16 | -1.183159191    | background | background | background |
| ENSG000000009950.15 | -1.25256526     | background | background | background |
| ENSG000000010292.12 | -1.00654219     | background | background | background |
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| ENSG000000010810.17 | 1.375137234     | background | background | background |
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| ENSG000000012504.13 | -1.363530816    | background | background | background |
| ENSG000000013583.8 | -1.207948551    | background | background | background |
| ENSG000000019186.9 | 1.142351386     | background | background | background |
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| ENSG000000027644.4 | 3.805759191     | 5 background | background | background |
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| ENSG000000028277.21 | 2.687373816     | background | background | background |
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| ENSG000000038210.12 | -1.221881186    | background | background | background |
| ENSG000000039523.19 | 1.326153565     | background | background | background |
| ENSG000000040608.13 | -2.090762511    | NA         | background | background |
| Ensembl ID   | Gene ID | Expression Value | Label 1 | Label 2 | Label 3 | Label 4 | Count |
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| ENSG00000065325.12 | 1.366791089 | background | background | background | 5       |
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| ENSG00000066230.10 | 1.688509198 | background | background | background | background | 5 |
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| ENSG00000066468.22 | -1.170788147 | 5 | background | NA | 4 |
| ENSG00000067445.20 | 1.225260835 | background | background | background | background | 5 |
| ENSG00000067840.12 | 2.917341384 | 5 | background | background | background | 4 |
| ENSG00000068078.17 | -1.470567405 | background | background | background | background | 5 |
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| ENSG00000068831.18 | 5.286259629 | background | background | background | background | 5 |
| ENSG00000068976.13 | 1.098193361 | background | background | background | background | 5 |
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| ENSG00000069535.13 | -1.101240806 | background | background | background | background | 5 |
| ENSG00000070214.15 | -1.183214335 | 5 | background | background | background | 5 |
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| ENSG00000072422.16 | -1.123475522 | background | background | background | background | 5 |
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| ENSG00000073150.13 | -1.496464523 | NA | NA | background | background | 5 |
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| ENSG00000075399.13 | -1.230812566 | background | background | background | background | 5 |
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| ENSG00000078900.14 | -1.809796793 | background | background | background | background | 5 |
| ENSG00000079393.20 | 1.029065863 | background | background | background | background | 5 |
| ENSG00000079462.7 | -1.52396904 | NA | background | background | background | 5 |
| ENSG00000079557.4 | -1.073596688 | background | background | background | background |
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| ENSG00000081923.11 | -1.118791661 | background | NA | background | background |
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| ENSG00000086159.12 | -1.552750237 | background | background | background | background |
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| ENSG00000087085.13 | 2.214581945 | background | background | background | background |
| ENSG00000087237.10 | 1.998214185 | background | background | background | background |
| ENSG00000087245.12 | 2.740220185 | background | background | background | background |
| ENSG00000087303.17 | 1.33705635 | background | NA | background | background |
| ENSG00000088305.18 | -1.44930869 | background | background | background | background |
| ENSG00000088543.14 | -1.05341374 | background | background | background | background |
| ENSG00000088836.12 | 1.421556453 | background | background | background | background |
| ENSG00000088882.7 | 6.457111162 | background | background | background | background |
| ENSG00000089558.8 | 1.891153829 | background | background | background | background |
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| ENSG00000090238.11 | 1.192693687 | background | background | background | background |
| ENSG00000090339.8 | 1.208971518 | NA | background | background | background |
| ENSG00000090674.15 | 1.91312338 | background | background | background | background |
| ENSG00000091262.15 | -1.108305797 | background | background | background | background |
| ENSG00000091409.14 | -1.139656245 | background | background | background | background |
| ENSG00000091482.5 | -1.76372709 | background | background | background | background |
| ENSG00000091592.15 | 2.47187073 | background | NA | background | background |
| ENSG00000091622.15 | 1.292973768 | background | background | background | background |
| ENSG00000091704.9 | 2.801630547 | background | background | background | background |
| ENSG00000091879.13 | 4.652341652 | background | background | background | background |
| Gene ID       | Value         | Background 1 | Background 2 | Background 3 | Background 4 |
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| ENSG00000092054.12 | 4.596721425   | background   | background   | background   | background   |
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| ENSG00000095970.16 | 4.736715872   | background   | background   | background   | background   |
| ENSG00000099194.5  | -1.120090996  | background   | background   | background   | background   |
| ENSG00000099290.15 | 1.057232533   | background   | background   | background   | background   |
| ENSG00000099308.10 | 1.30945902    | background   | NA           | background   | background   |
| ENSG00000099364.16 | 1.082548068   | background   | background   | background   | background   |
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| ENSG00000100092.20 | 1.165605435   | background   | background   | background   | background   |
| ENSG00000100096.10 | -1.287864039  | background   | background   | background   | 5            |
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| ENSG00000100276.9  | 3.036543166   | background   | background   | background   | background   |
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| ENSG00000100399.15 | 1.289209922   | background   | background   | background   | background   |
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| Gene       | Value   | Description | Count |
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| ENSG00000100557.9 | -1.672628826 | background | 5     |
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| ENSG00000100593.17 | -1.21096835 | background | 5     |
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| ENSG00000101082.13 | -1.106835513 | background | 5     |
| ENSG00000101098.12 | 1.665946738 | background | 3     |
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| ENSG00000101160.13 | 1.140737887 | background | 5     |
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| ENSG00000101210.10 | 2.374692126 | background | 5     |
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| ENSG00000101443.17 | 1.47264038 | NA | 5     |
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| ENSG00000101680.14 | 1.157204359 | background | 5     |
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| ENSG00000101955.14 | 2.417446387 | background | 5     |
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| ENSG00000102057.9 | 2.25962884 | background | 5     |
| ENSG00000102181.20 | -1.219189848 | NA | 5     |
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| ENSG00000102547.18 | 1.094158296 | background | 5     |
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| ENSEMBL00000102935.11 | 5.081061845    | background | background | NA     | 4 |
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| ENSEMBL00000102996.4  | -1.152424703   | background | background | background | background |
| ENSEMBL00000103044.10 | 1.394382028    | NA     | background | background | 5 |
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| ENSEMBL00000103534.16 | -1.189462435   | background | background | background | background |
| ENSEMBL00000103710.10 | 2.133016945    | background | background | background | background |
| ENSEMBL00000103871.10 | 1.209877840    | background | background | background | background |
| ENSEMBL00000103988.9  | 1.41884486     | background | background | background | 5 |
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| ENSEMBL00000104888.9  | 1.848907063    | background | background | background | 5 |
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| ENSEMBL00000105122.12 | 4.179077851    | background | background | background | background |
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| ENSEMBL00000105329.9  | 1.074815822    | background | background | background | background |
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| Gene ID          | Value  | Background | Background | Background | Background |
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| ENSG00000105538.9 | -1.090485989 | background | background | background | background |
| ENSG00000105552.14 | -1.03852606  | background | background | background | background |
| ENSG00000105559.11 | 1.358164193  | background | background | background | background |
| ENSG00000105617.3  | 1.29091166  | background | background | background | background |
| ENSG00000105619.13  | 1.073576326 | background | background | background | background |
| ENSG00000105639.18  | -1.236859106 | background | background | background | background |
| ENSG00000105642.15  | 4.118630285  | background | background | background | background |
| ENSG00000105643.9  | 1.34810353  | background | background | background | background |
| ENSG00000105650.21  | 3.148389407  | background | background | background | background |
| ENSG00000105668.7  | -1.236859106 | background | background | background | background |
| ENSG00000105699.16  | -1.221587091 | background | background | background | background |
| ENSG00000105707.13  | -2.253059906 | background | background | background | background |
| ENSG00000105711.11  | -1.149113841 | background | background | background | background |
| ENSG00000105737.9  | 5.173687542  | background | NA         | background | background |
| ENSG00000105784.15  | -1.616176116 | background | background | background | background |
| ENSG00000105792.19  | 1.48517208  | background | background | background | background |
| ENSG00000105875.13  | -1.132604011 | background | background | background | background |
| ENSG00000105928.13  | -1.065144124 | background | background | background | background |
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| ENSG00000105967.15  | 4.794067363  | background | background | background | background |
| ENSG00000106003.12  | 2.319071351  | background | background | background | background |
| ENSG00000106049.8  | -1.051027548 | background | background | background | background |
| ENSG00000106077.18  | -1.02698463  | background | background | background | background |
| ENSG00000106078.17  | -1.252733147 | background | background | background | background |
| ENSG00000106211.8  | 1.557364387  | background | background | background | background |
| ENSG00000106327.12  | -1.174060891 | background | background | background | background |
| ENSG00000106330.11  | -1.006756511 | background | background | background | background |
| ENSG00000106333.12  | -1.288378074 | background | background | background | background |
| ENSG00000106384.10  | -1.74988037  | background | background | background | background |
| ENSG00000106689.10  | 3.034084945  | background | background | background | background |
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| ENSG00000106948.16  | -1.240540375 | background | background | background | background |
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| ENSG00000107159.12  | -3.386991488 | background | background | background | background |
| ENSG00000107165.12  | 2.936713086  | background | background | background | background |
| ENSG00000107331.16  | -1.618576322 | background | background | background | background |
| ENSG00000107537.13  | -1.434293155 | background | background | background | background |
| Gene ID            | Log2 Fold Change |orf|orf|orf|orf |
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| ENSG00000107551.20| -1.040626139     |   |   |   |   |
| ENSG00000107731.12| 1.283390915      |   |   |   |   |
| ENSG00000107736.19| 1.891431038      |   |   |   |   |
| ENSG00000107738.19| 1.516372521      |   |   |   |   |
| ENSG00000107819.13| -1.668243432     | 5 |   |   |   |
| ENSG00000107831.12| 1.967640736      |   |   |   |   |
| ENSG00000107864.14| 1.145605178      |   |   |   |   |
| ENSG00000108342.12| 2.675394733      |   |   |   |   |
| ENSG00000108479.11| -1.573684749     |   |   |   |   |
| ENSG00000108556.7 | -1.24641382      |   |   |   |   |
| ENSG00000108576.9 | -1.882386939     |   |   |   |   |
| ENSG00000108602.17| 4.23342513      |   |   |   |   |
| ENSG00000108771.12| -1.423060454     |   |   |   |   |
| ENSG00000108813.10| -1.000119712     |   |   |   |   |
| ENSG00000108823.15| 4.652879406      |   |   |   |   |
| ENSG00000108852.14| 2.789295563      |   |   |   |   |
| ENSG00000108932.11| 1.665869967      |   |   |   |   |
| ENSG00000108947.4 | 2.516621331      |   |   |   |   |
| ENSG00000109107.13| -1.383626686     |   |   |   |   |
| ENSG00000109113.19| 1.410726144      |   |   |   |   |
| ENSG00000109472.13| -1.099220975     |   |   |   |   |
| ENSG00000109610.5 | -2.348102089     | NA|   |   |   |
| ENSG00000109680.10| -1.082722116     |   |   |   |   |
| ENSG00000109743.10| 1.851425333      |   |   |   |   |
| ENSG00000109944.10| 1.067371818      |   |   |   |   |
| ENSG00000110002.15| -1.349492367     |   |   |   |   |
| ENSG00000110011.13| -1.222307607     |   |   |   |   |
| ENSG00000110042.7 | -1.254507187     |   |   |   |   |
| ENSG00000110046.12| 1.017342196      |   |   |   |   |
| ENSG00000110057.7 | -1.525389129     |   |   |   |   |
| ENSG00000110169.10| -1.887604547     |   |   |   |   |
| ENSG00000110243.11| -1.759003238     |   |   |   |   |
| ENSG00000110244.6 | -1.27048667      |   |   |   |   |
| ENSG00000110245.11| -2.391323376     |   |   |   |   |
| ENSG00000110436.11| -1.39681584      |   |   |   |   |
| ENSG00000110651.11| 1.645684898      |   |   |   |   |
| ENSG00000110777.11| 2.231479162      |   |   |   |   |
| ENSG00000110811.19| -1.415642458     |   |   |   |   |
| ENSG00000110852.4 | 1.916063373      |   |   |   |   |
| ENSG00000110876.9 | 1.652459865      | NA|   |   |   |
| ENSG00000110900.14| 2.210900946      |   |   |   |   |
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| ENSG00000110911.14 | -1.448692513 | background | background | background |
| ENSG00000110925.6 | 1.074138408 | background | background | background |
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| ENSG00000111181.12 | -1.247905099 | background | background | background |
| ENSG000001111319.12 | -1.79287709 | background | background | background |
| ENSG000001111335.12 | 1.440473749 | background | background | background |
| ENSG000001111339.10 | -1.187711791 | background | background | background |
| ENSG000001111450.13 | -1.03780109 | background | background | background |
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| ENSG000001111678.10 | 1.618240724 | NA | background | background |
| ENSG000001111700.12 | -1.655485982 | background | background | background |
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| ENSG000001111727.11 | 1.029930589 | background | background | background |
| ENSG000001111752.10 | 1.891966413 | 4 | background | background |
| ENSG000001111860.13 | 1.262281337 | background | background | background |
| ENSG000001111913.17 | 1.373974723 | background | background | background |
| ENSG000001111962.7 | -1.985595161 | background | background | background |
| ENSG000001112137.17 | 1.095364961 | background | background | background |
| ENSG000001112186.11 | -1.561213887 | background | background | background |
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| ENSG000001112290.12 | -1.094940414 | background | background | background |
| ENSG000001112299.7 | -1.975458366 | background | background | background |
| ENSG000001112343.10 | 2.303170719 | background | background | background |
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| ENSG000001112559.13 | 2.278614473 | NA | background | background |
| ENSG000001112667.12 | -1.503467736 | background | background | background |
| ENSG000001112763.15 | 1.056842028 | background | background | background |
| ENSG000001112818.9 | 1.525041573 | background | background | background |
| ENSG000001113070.7 | 1.681167954 | background | background | background |
| ENSG000001113083.13 | -1.952490622 | background | background | background |
| ENSG000001113205.5 | -1.087163003 | NA | background | background |
| ENSG000001113249.12 | -1.693431557 | background | background | background |
| ENSG000001113369.8 | 1.778865587 | background | background | background |
| ENSG000001113430.9 | 5.437730929 | background | background | background |
| ENSG000001113532.12 | 2.864428208 | NA | background | background |
| ENSG000001113555.5 | 2.027207763 | background | background | background |
| ENSG000001113742.12 | 1.841661911 | background | background | background |
| ENSG000001113790.10 | -1.009795517 | background | background | background |
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| ENSG000001114166.7 | 1.040102121 | background | background | background |
| ENSG000001114268.11 | -2.254289102 | background | background | background |
| Gene ID          | Value            | Background 1 | Background 2 | Background 3 | Background 4 |
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| ENSG00000114626.17 | 1.39773938      | background   | background   | background   | 5            |
| ENSG00000114654.7 | 1.16258944      | background   | NA           | 5            | 5            |
| ENSG00000114698.14 | 2.0590447       | background   | background   | background   | 5            |
| ENSG00000114735.9 | -1.000882449    | background   | background   | background   | 5            |
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| ENSG00000114812.12 | 3.433093756     | background   | background   | background   | 5            |
| ENSG00000114841.17 | 2.366839106     | background   | background   | background   | 4            |
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| ENSG00000114904.12 | -1.059917418    | background   | background   | background   | 5            |
| ENSG00000114923.16 | 2.321127748     | background   | background   | background   | 5            |
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| ENSG00000115255.10 | -1.595715036    | background   | background   | background   | background   |
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| ENSG00000115598.9 | 3.561219145     | background   | background   | background   | 5            |
| ENSG00000115648.13 | 1.84542114      | background   | background   | background   | 5            |
| ENSG00000115844.10 | 1.351547602     | background   | background   | background   | background   |
| ENSG00000115919.14 | -1.128333486    | background   | background   | background   | 4            |
| ENSG00000116194.12 | 1.799568633     | background   | background   | background   | background   |
| ENSG00000116254.17 | 2.556327991     | background   | background   | background   | 5            |
| ENSG00000116260.16 | -1.007881164    | background   | background   | background   | 5            |
| ENSG00000116299.16 | 1.268609839     | background   | background   | background   | 5            |
| ENSG00000116329.10 | 1.285367764     | background   | background   | background   | 5            |
| ENSG00000116514.16 | 1.004588629     | background   | NA           | background   | background   |
| ENSG00000116544.11 | 2.395218138     | background   | NA           | background   | background   |
| ENSG00000116584.17 | 1.342808896     | background   | background   | background   | 5            |
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| Gene ID          | Value          | Background |  |  |  |
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| ENSG00000116977.18 | 1.306461249    | background |  |  |  |
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| ENSG00000116991.10 | 2.061388879    | background |  |  |  |
| ENSG00000117016.9 | -1.001091271   | background |  |  |  |
| ENSG00000117245.12 | -1.081082468   | background |  |  |  |
| ENSG00000117407.16 | 1.341306849    | background |  |  |  |
| ENSG00000117461.14 | 1.16433728     | background |  |  |  |
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| ENSG00000117601.13 | -1.873350876   | background |  |  |  |
| ENSG00000117602.11 | -1.29487219    | background |  |  |  |
| ENSG00000117632.22 | -1.163519242   | background |  |  |  |
| ENSG00000117791.15 | -1.683470012   | background |  |  |  |
| ENSG00000117834.12 | -1.941015834   | background |  |  |  |
| ENSG00000117838.6 | 2.086182721    | background |  |  |  |
| ENSG00000118004.17 | 1.531624111    | background |  |  |  |
| ENSG00000118263.14 | 1.02539905     | background |  |  |  |
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| ENSG00000118495.18 | 1.44507846     | background |  |  |  |
| ENSG00000118514.13 | -1.802006683   | background |  |  |  |
| ENSG00000118520.14 | -2.097859192   | background |  |  |  |
| ENSG00000118523.5 | 1.796478149    | background |  |  |  |
| ENSG00000118785.13 | 2.10007825     | background |  |  |  |
| ENSG00000118804.8 | -1.642202935   | NA         | background |  |  |
| ENSG00000119227.7 | -1.301529211   | background |  |  |  |
| ENSG00000119446.13 | 1.0550981      | background |  |  |  |
| ENSG00000119547.5 | 1.212250066    | background |  |  |  |
| ENSG00000119630.13 | 1.409762743    | background |  |  |  |
| ENSG00000119669.4 | 1.323716756    | NA         | background |  |  |
| ENSG00000119699.7 | 2.121561238    | background |  |  |  |
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| ENSG00000119715.14 | 2.171149717    | background |  |  |  |
| ENSG00000119737.5 | 1.224281496    | NA         | background |  |  |
| ENSG00000119782.13 | -1.635002167   | background |  |  |  |
| ENSG00000119801.12 | 1.267008056    | NA         | background |  |  |
| ENSG00000119917.13 | -1.503250422   | NA         | background |  |  |
| ENSG00000119938.8 | -1.035260746   | NA         | background |  |  |
| ENSG00000119986.6 | -1.089860018   | NA         | background |  |  |
| ENSG00000120057.4 | 3.634316648    | NA         | background |  |  |
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| 228 ENSG00000120327.6 | -1.038473480 | NA         | background | background | 5 |
| 228 ENSG00000120738.7 | 3.018411005  | background | background | background | 5 |
| 228 ENSG00000120875.8 | -3.05332062  | background | background | background | 5 |
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| 228 ENSG00000121101.15| 2.591828773  | 5          | background | background | 5 |
| 228 ENSG00000121210.15| -1.007170160 | background | background | background | 5 |
| 228 ENSG00000121577.13| 1.471451491  | background | background | background | 5 |
| 228 ENSG00000121691.4 | -1.498255687 | background | background | background | 5 |
| 228 ENSG00000121743.3 | 1.683195971  | NA         | background | background | 5 |
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| 228 ENSG00000121957.12| -1.390409249 | background | background | background | 5 |
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| 228 ENSG00000122194.18| -1.979610929 | background | background | background | 5 |
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| 228 ENSG00000122376.11| -1.145839566 | background | background | background | 5 |
| 228 ENSG00000122432.17| -1.699064879 | background | background | background | 5 |
| 228 ENSG00000122547.10| 1.238926337  | background | background | background | 5 |
| 228 ENSG00000122877.15| 2.985057351  | NA         | background | background | 5 |
| 228 ENSG00000122986.13| 1.752524577  | background | background | background | 5 |
| 228 ENSG00000123415.15| -1.024748932 | background | background | background | 5 |
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| 228 ENSG00000123901.8 | 2.267804289  | background | background | background | 5 |
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| 228 ENSG00000123999.4 | -1.470264184 | NA         | background | background | 5 |
| 228 ENSG00000124103.8 | 4.231725853  | NA         | background | background | 5 |
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| 228 ENSG00000124216.3 | 1.436792958  | NA         | background | background | 5 |
| 228 ENSG00000124406.16| -1.372703899 | background | background | background | 5 |
| 228 ENSG00000124508.16| 1.168058324  | background | background | background | 5 |
| 228 ENSG00000124564.17| -2.001935605 | background | background | background | 5 |
| 228 ENSG00000124568.10| -1.331667307 | background | background | background | 5 |
| Gene ID          | Description | Value 1   | Value 2  | Value 3  | Value 4   | Comment |
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| ENSG00000124570.17 | -1.412246653 | background | background | background | background |         |
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| ENSG00000124657.1 | 3.696018352  | NA        | NA       | NA       | background |         |
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| ENSG00000124813.20 | -2.539589425 | NA        | background | background | background |         |
| ENSG00000125144.13 | 1.810574447  | NA        | background | background | background |         |
| ENSG00000125170.10 | -1.220407403 | NA        | background | background | background |         |
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| ENSG00000125534.9 | -1.023168524 | background | background | background | background |         |
| ENSG00000125618.16 | -1.72957107  | background | background | 5         | 5         |         |
| ENSG00000125648.14 | -1.930799304 | background | background | background | 5         |         |
| ENSG00000125730.16 | -1.295949605 | background | background | 5         | 5         |         |
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| ENSG00000125931.10 | 1.843355373  | background | background | background | background |         |
| ENSG00000126091.19 | -1.094037008 | background | background | background | 5         |         |
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| ENSG00000126259.19 | -2.001165261 | background | background | background | background |         |
| ENSG00000126264.9 | 2.494141389  | NA        | background | background | 4         |         |
| ENSG00000126353.3 | 1.27685196   | background | background | background | background |         |
| ENSG00000126368.5 | 1.268923115  | background | background | background | background |         |
| ENSG00000126460.10 | 2.984060581  | background | background | background | background |         |
| ENSG00000126561.16 | -1.680521914 | 5         | background | background | 5         |         |
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| ENSG00000126709.14 | 1.637660664  | NA        | background | background | background |         |
| ENSG00000126759.13 | 2.250105761  | background | background | background | 4         |         |
| ENSG00000126803.9 | 1.312840776  | NA        | background | background | background |         |
| ENSG00000126838.9 | 3.280977684  | background | background | background | background |         |
| ENSG00000126878.12 | -1.7201602   | background | background | background | background |         |
| ENSG00000126882.12 | 1.317057194  | NA        | background | 5         | 5         |         |
| ENSG00000127324.8 | 1.033157259  | background | background | background | 5         |         |
| ENSG00000127528.5 | 2.285222547  | background | background | background | background |         |
| ENSG00000127585.11 | -2.55151281  | background | background | background | 5         |         |
| ENSG00000127588.4 | 1.977526601  | NA        | background | background | background |         |
| ENSG00000127743.5 | 2.404226187  | background | background | background | background |         |
| ENSG00000127824.13 | 2.378994642  | background | background | background | 5         |         |
| ENSG00000127955.15 | 1.01962481   | background | background | background | background |         |
| Ensembl Gene ID | Value      | Somatic Mutation | Oncogenic Mutation | Chromosome 228 |
|----------------|------------|------------------|--------------------|---------------|
| ENSG00000128045.6 | 4.239792805 | background | background | background |
| ENSG00000128203.6 | 2.041634975 | NA | background | background |
| ENSG00000128266.8 | -1.549394582 | background | background | background |
| ENSG00000128284.19 | -1.38113622 | background | background | background |
| ENSG00000128285.4 | 5.142194157 | NA | background | background |
| ENSG00000128340.14 | 1.329514898 | background | background | background |
| ENSG00000128342.4 | 1.288059651 | background | background | background |
| ENSG00000128408.8 | -1.199250052 | background | background | background |
| ENSG00000128564.6 | 3.964194009 | background | background | background |
| ENSG00000128567.16 | 1.587749336 | background | background | background |
| ENSG00000128594.7 | 2.52737916 | NA | background | background |
| ENSG00000128604.19 | -1.248714509 | 5 | background | background |
| ENSG00000128652.11 | 1.270748987 | background | background | background |
| ENSG00000128655.17 | -1.34868866 | background | background | background |
| ENSG00000128872.9 | 1.774793601 | background | background | background |
| ENSG00000128951.13 | -1.157663908 | background | background | background |
| ENSG00000129009.12 | 2.303133792 | NA | background | background |
| ENSG00000129048.6 | 2.244464327 | NA | background | background |
| ENSG00000129194.7 | 1.45443634 | NA | background | background |
| ENSG00000129244.8 | 2.629871514 | background | background | background |
| ENSG00000129295.8 | 2.11723564 | background | background | background |
| ENSG00000129353.14 | 1.019943064 | 5 | background | background |
| ENSG00000129354.11 | -1.03694497 | background | background | background |
| ENSG00000129596.4 | -2.202845708 | background | background | background |
| ENSG00000129654.7 | 1.8971401 | background | background | background |
| ENSG00000129910.7 | -1.272400466 | background | background | background |
| ENSG00000129951.18 | 3.709413676 | background | background | background |
| ENSG00000129991.12 | -1.134280019 | background | background | background |
| ENSG00000130038.9 | 1.598311291 | 5 | background | background |
| ENSG00000130055.13 | 3.300467052 | background | background | background |
| ENSG00000130173.13 | -1.138737967 | background | background | background |
| ENSG00000130176.7 | 1.739207949 | background | background | background |
| ENSG00000130234.10 | -1.230521901 | background | background | background |
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| ENSG00000130349.9 | -1.34567511 | background | background | background |
| ENSG00000130383.7 | 2.75570345 | NA | background | background |
| ENSG00000130427.2 | -1.173788935 | background | background | background |
| ENSG00000130513.6 | 2.501959517 | NA | background | background |
| ENSG00000130529.15 | -1.29335802 | background | background | background |
| ENSG00000130584.10 | 2.5325839 | background | background | background |
| Gene          | Value   | Background | NA | Background | Repeat Count |
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| ENSG00000130598.15 | -1.522921346 | background | NA | background | 5            |
| ENSG000000130635.15 | 1.281659279 | background | background | background | 4            |
| ENSG000000130653.15 | -1.404811191 | background | background | background | 5            |
| ENSG000000130701.3 | -2.389075867 | background | background | background | 5            |
| ENSG000000130707.17 | -1.681392991 | background | 5 | background | 5            |
| ENSG000000130751.9 | 2.350919324 | background | background | background | 5            |
| ENSG000000130766.4 | 1.236130649 | background | 5 | background | 5            |
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| ENSG000000130822.15 | -1.346995622 | background | background | background | 5            |
| ENSG000000130856.15 | 1.137881055 | background | background | background | 5            |
| ENSG000000131016.16 | -1.059685845 | 5 | background | background | 5            |
| ENSG000000131044.16 | 1.901721954 | background | background | background | 5            |
| ENSG000000131061.13 | 2.989645782 | 5 | background | background | 4            |
| ENSG000000131096.10 | 1.375253878 | background | background | background | 5            |
| ENSG000000131242.17 | -1.448769193 | background | background | background | 4            |
| ENSG000000131386.17 | -1.56075855 | background | background | background | 5            |
| ENSG000000131480.8 | 1.076829131 | background | background | background | 5            |
| ENSG000000131482.9 | -1.605680875 | background | background | background | 5            |
| ENSG000000131650.13 | 2.615414719 | background | background | background | 5            |
| ENSG000000131746.12 | 1.799777714 | background | background | background | 5            |
| ENSG000000131914.10 | 4.210822291 | background | background | background | 5            |
| ENSG000000131966.13 | -1.171029483 | background | background | background | 5            |
| ENSG000000131969.14 | -1.668797483 | background | background | background | 5            |
| ENSG000000132031.12 | -1.093786913 | NA | background | background | background |
| ENSG000000132297.11 | 2.610889396 | background | background | background | 5            |
| ENSG000000132329.10 | 2.57205616 | background | background | background | 5            |
| ENSG000000132359.14 | -1.255164214 | background | background | background | 4            |
| ENSG000000132394.10 | -1.285598865 | background | background | background | 5            |
| ENSG000000132423.11 | -1.47288091 | background | background | background | 5            |
| ENSG000000132437.17 | -2.155874549 | background | background | background | 5            |
| ENSG000000132510.10 | 1.253212025 | background | background | background | 5            |
| ENSG000000132517.14 | 3.076189156 | background | background | background | 5            |
| ENSG000000132535.18 | 1.898925761 | background | background | background | 5            |
| ENSG000000132677.12 | -1.376743867 | background | background | background | 5            |
| ENSG000000132718.8 | 1.610120253 | 5 | background | background | 5            |
| ENSG000000132744.7 | -3.072950735 | background | background | background | 5            |
| ENSG000000132749.10 | -2.355615926 | background | background | background | 5            |
| ENSG000000132854.18 | -1.764721161 | background | background | 5 | 5            |
| ENSG000000133401.15 | 1.738035865 | background | background | background | 5            |
| ENSG000000133488.14 | 2.47931265 | background | background | background | 5            |
| ENSG000000133863.7 | -1.482391657 | background | background | background | 5            |
| Gene ID         | Value 1 | Value 2 | Value 3 | Value 4 | Value 5 |
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| ENSG00000134107.4 | -1.155985439 | background | background | background | 5 |
| ENSG00000134242.15 | 3.532039343 | background | background | background | 5 |
| ENSG00000134247.9 | -1.245280078 | background | background | background | 5 |
| ENSG00000134323.11 | 1.15198718 | background | background | background | 5 |
| ENSG00000134363.11 | 3.080702925 | background | background | background | 5 |
| ENSG00000134369.15 | 1.687755883 | background | background | background | 5 |
| ENSG00000134470.20 | 1.150759547 | background | background | background | 5 |
| ENSG00000134551.12 | 3.819739699 | background | background | background | 5 |
| ENSG00000134762.16 | 3.440940438 | background | background | background | 5 |
| ENSG00000134779.14 | -1.04676842 | background | background | background | 5 |
| ENSG00000134824.13 | -1.834525376 | background | background | background | 5 |
| ENSG00000134830.5 | 1.739178638 | background | background | background | 5 |
| ENSG00000134864.10 | -1.930490984 | background | background | background | 5 |
| ENSG00000134962.6 | -1.11842952 | background | background | background | 5 |
| ENSG00000134986.13 | -1.22893618 | background | background | background | 5 |
| ENSG00000135045.6 | -1.02044181 | background | background | background | 5 |
| ENSG00000135097.6 | 4.54309561 | background | background | background | 5 |
| ENSG00000135318.11 | 1.214238516 | background | background | background | 5 |
| ENSG00000135373.12 | 3.47459486 | background | background | background | 5 |
| ENSG00000135414.9 | 1.055805709 | background | background | background | 5 |
| ENSG00000135437.9 | -1.447095758 | background | background | background | 5 |
| ENSG00000135439.11 | 1.51380464 | background | background | background | 5 |
| ENSG00000135517.6 | 2.5480197 | background | background | background | 5 |
| ENSG00000135625.7 | 3.100322448 | background | background | background | 5 |
| ENSG00000135636.13 | 2.967685892 | background | background | background | 5 |
| ENSG00000135740.16 | 1.567954707 | background | background | background | 5 |
| ENSG00000135744.7 | -1.130575479 | background | background | background | 5 |
| ENSG00000135917.13 | 1.218098379 | background | background | background | 5 |
| ENSG00000135919.12 | -1.076434505 | background | background | background | 5 |
| ENSG00000135679.22 | 1.055805709 | background | background | background | 5 |
| ENSG00000135709.12 | 1.245344748 | background | background | background | 5 |
| ENSG00000135740.16 | 1.567957007 | background | background | background | 5 |
| ENSG00000135744.7 | -1.130575479 | background | background | background | 5 |
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| ENSG00000135919.12 | 1.453000879 | background | background | background | 5 |
| ENSG00000135925.8 | 2.967685892 | background | background | background | 5 |
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| ENSG00000136161.12 | 1.428849132 | background | background | background | 5 |
| ENSG00000136167.13 | 1.815168368 | background | background | background | 5 |
| ENSG00000136274.8 | 1.927895688 | background | background | background | 5 |
| ENSG00000136378.14 | 2.00273552 | background | background | background | 5 |
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| ENSG00000136689.18 | -1.27709627 | background | background | background | 5 |
| Gene ID          | Value     | Background | Background | Background | Background |
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| ENSG00000136828.18 | -1.318665241 | background | background | background | 5          |
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| ENSG00000136881.11 | 1.37355321   | background | background | background | 5          |
| ENSG00000137033.11 | 1.611532663  | background | background | background | 5          |
| ENSG00000137078.8 | -3.033616753 | background | background | background | background |
| ENSG00000137103.17 | -1.626250908 | background | background | background | 5          |
| ENSG00000137204.14 | -2.373985196 | background | background | background | background |
| ENSG00000137216.18 | 1.125175747  | background | background | background | 5          |
| ENSG00000137251.15 | 1.517064739  | background | background | background | 5          |
| ENSG00000137265.14 | 1.533826085  | background | background | background | 5          |
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| ENSG00000137270.10 | 2.127347728  | background | background | background | background |
| ENSG00000137273.3 | 1.741679134  | NA         | background | background | background |
| ENSG00000137285.9 | 1.446387771  | background | background | background | background |
| ENSG00000137331.11 | 1.923046349  | NA         | background | background | background |
| ENSG00000137404.14 | -1.723723576 | background | background | background | background |
| ENSG00000137460.8 | 1.39727228   | background | background | background | background |
| ENSG00000137491.14 | -1.474209961 | background | background | background | 5          |
| ENSG00000137494.13 | 1.028647298  | background | background | background | 5          |
| ENSG00000137731.13 | 1.246605416  | background | background | background | 4          |
| ENSG00000137752.23 | -1.520287583 | background | background | background | 5          |
| ENSG00000137767.13 | -1.291200093 | background | background | background | 5          |
| ENSG00000137817.16 | 2.397607126  | background | background | background | background |
| ENSG00000137831.14 | -1.027703812 | background | background | background | 5          |
| ENSG00000137841.11 | 2.823565989  | 5          | background | background | 5          |
| ENSG00000137868.18 | 5.165302474  | background | background | background | 5          |
| ENSG00000137869.14 | -1.851133684 | background | background | background | 5          |
| ENSG00000137960.5 | -1.41941649  | background | background | background | background |
| ENSG00000138080.13 | 1.401783877  | background | background | background | 5          |
| ENSG00000138100.13 | 1.512568568  | background | background | background | 4          |
| ENSG00000138308.5 | -1.107491461 | background | background | background | background |
| ENSG00000138315.12 | -1.118186498 | background | background | background | background |
| ENSG00000138347.15 | 2.980140427  | background | background | background | background |
| ENSG00000138356.13 | -1.020034202 | background | background | background | 5          |
| ENSG00000138411.10 | 2.359956772  | background | background | background | 5          |
| ENSG00000138496.16 | -1.251139519 | background | background | background | background |
| ENSG00000138606.19 | 1.660157578  | 5          | background | background | 5          |
| ENSG00000138615.5 | 2.59304492   | background | background | background | background |
| ENSG00000138640.14 | -1.130703069 | background | background | background | 4          |
| ENSG00000138642.14 | -1.076132693 | background | background | background | background |
| Gene ID          | Value          | Description | Description | Description | Description | Description |
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| ENSG00000138646.8 | 2.060860202    | background  | background  | background  | background  | 5           |
| ENSG00000138685.13 | 1.982536965     | background  | background  | background  | background  | 4           |
| ENSG00000138764.14 | -1.176951742    | background  | background  | background  | background  | 4           |
| ENSG00000138794.9 | -1.123591869    | background  | background  | background  | background  | 5           |
| ENSG00000138795.9 | 3.269667607     | background  | background  | background  | background  | 5           |
| ENSG00000138801.8 | -1.032655735    | background  | background  | background  | background  | 5           |
| ENSG00000138812.11 | 1.23548438      | background  | background  | background  | background  | 5           |
| ENSG00000138829.11 | 3.478441605     | background  | background  | background  | background  | 4           |
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| ENSG00000139055.6 | -1.838663536    | background  | background  | background  | background  | 5           |
| ENSG00000139187.9 | 1.85433037      | background  | background  | background  | background  | 5           |
| ENSG00000139194.7 | -1.227368455    | background  | background  | background  | background  | 5           |
| ENSG00000139200.13 | 3.249577072     | background  | background  | background  | background  | 5           |
| ENSG00000139219.17 | 2.148667664     | background  | background  | background  | background  | 5           |
| ENSG00000139269.2 | -1.690429733    | NA          | background  | background  | background  | 5           |
| ENSG00000139318.7 | 1.835663063     | NA          | background  | background  | background  | 5           |
| ENSG00000139410.14 | -1.309341153    | background  | background  | background  | background  | 5           |
| ENSG00000139428.11 | -1.336980709    | background  | background  | background  | background  | 5           |
| ENSG00000139624.12 | 1.260908795     | background  | background  | background  | background  | 5           |
| ENSG00000139625.12 | 1.908106154     | background  | background  | background  | background  | 5           |
| ENSG00000139629.15 | -1.243815095    | background  | background  | background  | background  | 5           |
| ENSG00000139832.4 | -1.214942431    | NA          | background  | background  | background  | 5           |
| ENSG00000139835.13 | -1.291049562    | background  | background  | background  | background  | 5           |
| ENSG00000139890.9 | 3.111783342     | background  | background  | background  | background  | 5           |
| ENSG00000139899.10 | -1.227380172    | NA          | background  | background  | background  | 5           |
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| ENSG00000140280.13 | 2.07924953      | background  | background  | background  | background  | 5           |
| ENSG00000140379.7 | -2.242430766    | NA          | background  | background  | background  | 5           |
| ENSG00000140465.13 | 2.233741353     | background  | background  | background  | background  | 5           |
| ENSG00000140481.14 | 4.235228951     | background  | background  | background  | background  | 5           |
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| ENSG00000140511.11 | 2.421161336     | NA          | background  | background  | background  | 5           |
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| ENSG00000140848.16 | -1.134633506    | background  | background  | background  | background  | 4           |
| ENSG00000140939.14 | -1.40785563     | NA          | background  | background  | background  | 5           |
| ENSG00000141401.11 | -1.439005587    | background  | background  | background  | background  | 5           |
| Gene ID            | Value    | Background | Background | Background | Background |
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| ENSG00000141574.7  | -1.096499177 | background | background | background | background |
| ENSG00000141576.14 | -1.073952514 | background | background | background | background |
| ENSG00000141682.11 | 1.869866782  | NA         | background | background | background |
| ENSG00000141744.3  | 2.695414123  | background | background | background | background |
| ENSG00000141949.9  | 2.166938786  | background | background | background | background |
| ENSG00000141959.16 | -1.65386456  | background | background | background | background |
| ENSG00000141994.15 | 1.107278693  | background | background | background | background |
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| ENSG00000142182.8  | -2.172611609 | background | background | background | background |
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| ENSG00000142273.10 | -1.152089248 | background | background | background | background |
| ENSG00000142459.8  | -1.883111022 | background | background | background | background |
| ENSG00000142494.13 | -1.202097277 | background | background | background | background |
| ENSG00000142513.5  | 2.021065798  | NA         | background | background | background |
| ENSG00000142528.15 | 1.522106455  | background | background | background | background |
| ENSG00000142539.9  | 1.957240571  | background | background | background | background |
| ENSG00000142549.9  | 1.014890087  | NA         | background | background | background |
| ENSG00000142599.17 | 1.00177847   | background | background | background | background |
| ENSG00000142611.16 | -1.703210024 | background | background | background | background |
| ENSG00000142627.12 | 1.132043031  | background | background | background | background |
| ENSG00000142661.18 | -1.098164548 | background | background | background | background |
| ENSG00000142677.3  | -1.852348056 | S          | background | background | background |
| ENSG00000142700.11 | 1.052983291  | NA         | background | background | background |
| ENSG00000143028.8  | 1.467455949  | background | background | background | background |
| ENSG00000143061.17 | 1.049263861  | background | background | background | background |
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| ENSG00000143162.7  | -1.11516012  | background | background | background | background |
| ENSG00000143195.12 | 4.08195198   | background | background | background | background |
| ENSG00000143217.8  | 2.221084729  | background | background | background | background |
| ENSG00000143278.3  | -1.348387358 | background | background | background | background |
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| ENSG00000143365.17 | -2.206743243 | background | background | background | background |
| ENSG00000143375.14 | 1.233860991  | background | background | background | background |
| ENSG00000143382.14 | -1.820168757 | background | background | background | background |
| ENSG00000143434.15 | -1.438018591 | background | background | background | background |
| ENSG00000143450.16 | 1.44119469   | background | background | background | background |
| ENSG00000143457.10 | -1.04864022  | background | background | background | background |
| ENSG00000143507.17 | 1.13627808   | background | background | background | background |
| ENSG00000143632.14 | 2.624418534  | background | background | background | background |
| Gene ID          | Log2 Fold Change | p-value | Status | Effect | Gene ID          | Log2 Fold Change | p-value | Status | Effect |
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| ENSG00000143786.7| 1.423921064      |         | background | background | ENSG00000143847.15 | -1.288728082 |         | background | background |
| ENSG00000143862.7| 1.279177357      |         | background | background | ENSG00000143867.6 | 1.295110264 |         | background | background |
| ENSG00000143995.19| -1.149541742    |         | background | background | ENSG00000144130.11 | -3.119149478 |         | background | background |
| ENSG00000144152.12| -1.69877726     |         | background | background | ENSG00000144214.9 | 1.217129417 |         | background | background |
| ENSG00000144290.16| 1.182354021     |         | background | background | ENSG00000144355.14 | 1.853335835 |         | background | background |
| ENSG00000144369.12| 1.662294079     |         | background | background | ENSG00000144451.18 | -1.091590484 |         | background | background |
| ENSG00000144488.14| -1.903027594    |         | background | background | ENSG00000144596.12 | 5.342058024  |         | background | background |
| ENSG00000144893.12| 1.99014635      |         | background | background | ENSG00000145198.14 | 2.914528453 |         | background | background |
| ENSG00000145244.11| 1.8423078      |         | background | background | ENSG00000145248.6 | 2.285272599 |         | background | background |
| ENSG00000145320.20| -1.226217592    |         | background | background | ENSG00000145545.11 | -1.23730867 |         | background | background |
| ENSG00000145604.15| -1.093008839    |         | background | background | ENSG00000145632.14 | 2.076763329 |         | background | background |
| ENSG00000145692.14| -2.428545672    |         | background | background | ENSG00000145730.20 | -1.226217592 |         | background | background |
| ENSG00000145911.5 | 1.560981681    |         | NA      | background | ENSG00000145990.10 | -1.601885652 |         | NA      | background |
| ENSG00000146006.7 | 4.81689755     |         | NA      | background | ENSG00000146085.7 | -1.274041998 |         | 5       | background |
| ENSG00000146166.16| 2.975968875     |         | background | background | ENSG00000146215.13 | -1.713318782 |         | background | background |
| ENSG00000146386.7 | -1.289971563    |         | background | background | ENSG00000146453.12 | 3.223041507 |         | background | background |
| ENSG00000146477.5 | -1.240750803    |         | background | background | ENSG00000146555.18 | -1.471820157 |         | 5       | background |
| ENSG00000146674.14| 1.401081806     |         | background | background | ENSG00000146678.9 | -1.091193661 |         | background | background |
| ENSG00000146700.8 | -1.303265984    |         | background | background | ENSG00000146707.14 | 1.025725881 |         | background | background |
| ENSG00000146755.10| -1.182806202    |         | background | background | ENSG00000146839.18 | 1.323633586 |         | background | background |
| ENSG00000146904.8 | -1.393745531    |         | background | background | ENSG00000146904.8 | 1.197660201 |         | background | background |
| Gene Accession | Log2 Fold Change | Description |
|----------------|-----------------|-------------|
| ENSG00000147155.10 | -1.032546604 | background |
| ENSG00000147168.12 | 3.596919032 | background |
| ENSG00000147180.16 | 1.832528168 | background |
| ENSG00000147251.15 | 4.07047962 | background |
| ENSG00000147262.3 | 1.738296008 | NA |
| ENSG00000147268.14 | 1.340302882 | background |
| ENSG00000147348.8 | -2.938265815 | background |
| ENSG00000147411.11 | -2.113685353 | background |
| ENSG00000147465.19 | 1.020528276 | background |
| ENSG00000147526.19 | -1.07035795 | background |
| ENSG00000147537.16 | 3.774940764 | background |
| ENSG00000147676.13 | -1.303291147 | background |
| ENSG00000147883.10 | 3.205672077 | NA |
| ENSG00000147889.17 | 1.503382124 | background |
| ENSG00000147912.12 | 1.03214221 | background |
| ENSG00000147955.16 | -1.378704959 | background |
| ENSG00000148057.15 | -1.024131276 | background |
| ENSG00000148120.16 | 1.11891316 | background |
| ENSG00000148180.19 | -1.07035795 | background |
| ENSG00000148204.11 | 1.242717152 | background |
| ENSG00000148219.16 | 1.176351969 | background |
| ENSG00000148344.10 | 2.23304829 | background |
| ENSG00000148400.9 | 1.068245804 | background |
| ENSG00000148408.12 | 2.101013164 | background |
| ENSG00000148832.15 | -2.97358237 | background |
| ENSG00000148965.9 | -2.012139571 | background |
| ENSG00000149043.16 | -2.296188411 | background |
| ENSG00000149201.9 | 1.457361071 | background |
| ENSG00000149218.4 | -1.0185291 | background |
| ENSG00000149257.13 | 1.004725531 | background |
| ENSG00000149260.15 | 2.638247165 | background |
| ENSG00000149599.15 | 1.162591676 | background |
| ENSG00000149735.6 | -1.479693189 | background |
| ENSG00000149781.12 | 2.638215468 | background |
| ENSG00000150054.18 | -1.333092668 | background |
| ENSG00000150637.8 | 1.049824341 | background |
| ENSG00000150756.13 | -1.125969654 | background |
| ENSG00000150773.10 | 1.324480616 | background |
| ENSG00000150873.11 | 1.520993565 | background |
| ENSG00000151023.16 | -1.32452667 | background |
| Chromosome | Gene symbol | Log2FoldChange | Background | p-value | Annotations |
|------------|-------------|----------------|------------|---------|-------------|
| 228 | ENSG00000151224.12 | -1.291860347 | background | 5 | background | background | background | 5 |
| 228 | ENSG00000151360.9 | 3.893332966 | background | 5 | background | background | background | 5 |
| 228 | ENSG00000151632.17 | 1.208197524 | background | 5 | background | background | background | 5 |
| 228 | ENSG00000151640.12 | 2.21087133 | background | 5 | background | background | background | 5 |
| 228 | ENSG00000151689.12 | 1.004280716 | background | 5 | background | background | background | 5 |
| 228 | ENSG00000151692.14 | -1.397799912 | background | 5 | background | background | background | 5 |
| 228 | ENSG00000151715.7 | -2.46755182 | background | 5 | background | background | background | 5 |
| 228 | ENSG00000151743.10 | 1.236586419 | background | 5 | background | background | background | 5 |
| Gene ID          | Gene Symbol | Log2 Fold Change | P-Value | Number of Replicates |
|-----------------|-------------|------------------|---------|----------------------|
| ENSG00000155849.15 | ENSG00000155849.15 | 2.531309507 | background | background | 4 |
| ENSG00000155893.12 | ENSG00000155893.12 | -1.296285456 | background | background | 5 |
| ENSG00000155961.4 | ENSG00000155961.4 | 2.347132362 | NA | background | background | 5 |
| ENSG00000156049.6 | ENSG00000156049.6 | 3.662137719 | background | background | 5 |
| ENSG00000156096.13 | ENSG00000156096.13 | 2.09160229 | background | background | 5 |
| ENSG00000156140.9 | ENSG00000156140.9 | 3.740660131 | background | background | 5 |
| ENSG00000156222.11 | ENSG00000156222.11 | -5.223786641 | background | background | 5 |
| ENSG00000156381.8 | ENSG00000156381.8 | -1.144744996 | background | background | 5 |
| ENSG00000156427.7 | ENSG00000156427.7 | 2.52730606 | background | background | 5 |
| ENSG00000156453.13 | ENSG00000156453.13 | 3.51860229 | background | background | 5 |
| ENSG00000156510.12 | ENSG00000156510.12 | -1.070310799 | background | background | 5 |
| ENSG00000156535.13 | ENSG00000156535.13 | -1.249190835 | background | background | 5 |
| ENSG00000156587.15 | ENSG00000156587.15 | -1.543371757 | background | background | 5 |
| ENSG00000156696.8 | ENSG00000156696.8 | -1.282367021 | background | background | 5 |
| ENSG00000157240.3 | ENSG00000157240.3 | -1.903481509 | NA | background | background | 5 |
| ENSG00000157303.10 | ENSG00000157303.10 | -2.107284849 | background | background | 4 |
| ENSG00000157353.16 | ENSG00000157353.16 | -1.578059057 | background | background | 5 |
| ENSG00000157368.10 | ENSG00000157368.10 | 1.651015819 | background | background | 5 |
| ENSG00000157456.7 | ENSG00000157456.7 | -1.029024067 | NA | background | background | 5 |
| ENSG00000157600.11 | ENSG00000157600.11 | -1.446306379 | background | background | 5 |
| ENSG00000157613.10 | ENSG00000157613.10 | 2.333806984 | background | background | 5 |
| ENSG00000157833.12 | ENSG00000157833.12 | 1.905235895 | background | background | 5 |
| ENSG00000157873.17 | ENSG00000157873.17 | -1.040025239 | background | background | 5 |
| ENSG00000157927.16 | ENSG00000157927.16 | -1.756577554 | S | background | background | 5 |
| ENSG00000157978.11 | ENSG00000157978.11 | -1.006602074 | background | background | 5 |
| ENSG00000158023.9 | ENSG00000158023.9 | 1.132294887 | background | background | 5 |
| ENSG00000158050.4 | ENSG00000158050.4 | 5.733554952 | background | background | 5 |
| ENSG00000158301.18 | ENSG00000158301.18 | 1.083105473 | background | background | 5 |
| ENSG00000158321.15 | ENSG00000158321.15 | 1.803554893 | background | background | 4 |
| ENSG00000158373.8 | ENSG00000158373.8 | 1.478636536 | NA | background | background | 5 |
| ENSG00000158406.4 | ENSG00000158406.4 | 1.806961124 | NA | background | background | 5 |
| ENSG00000158445.9 | ENSG00000158445.9 | 3.009953102 | NA | background | background | 5 |
| ENSG00000158486.13 | ENSG00000158486.13 | 1.114527795 | background | NA | background | 4 |
| ENSG00000158571.10 | ENSG00000158571.10 | -1.865584033 | background | background | 5 |
| ENSG00000158683.7 | ENSG00000158683.7 | 2.777513139 | background | background | 5 |
| ENSG00000158813.17 | ENSG00000158813.17 | -1.028472946 | background | background | 4 |
| ENSG00000158815.10 | ENSG00000158815.10 | 1.515736158 | background | background | 5 |
| ENSG00000158856.18 | ENSG00000158856.18 | -1.313844362 | background | background | 5 |
| ENSG00000158859.9 | ENSG00000158859.9 | 3.839511804 | background | background | 5 |
| ENSG00000158869.10 | ENSG00000158869.10 | 1.118512499 | background | background | 5 |
| ENSG00000158887.15 | ENSG00000158887.15 | 4.116603136 | background | background | 5 |
| Gene Symbol | Ensembl ID | Value | Background | NA | Background |
|-------------|------------|-------|------------|----|------------|
| ENSG00000158966.13 | 1.369657581 | background | background | background | 4 |
| ENSG00000159166.13 | -1.355640602 | background | background | background | 5 |
| ENSG00000159733.13 | 1.74036583 | background | background | background | 5 |
| ENSG00000159753.13 | 1.270851261 | background | NA | NA | background |
| ENSG00000159842.14 | -1.214331685 | background | background | background | 5 |
| ENSG00000159885.13 | 1.105066296 | background | background | background | 5 |
| ENSG00000159958.6 | 2.892084922 | NA | background | background | background |
| ENSG00000160161.9 | 1.826131186 | background | background | background | background |
| ENSG00000160183.13 | -1.281966537 | background | background | background | 5 |
| ENSG00000160213.6 | -2.093761785 | NA | background | background | background |
| ENSG00000160233.7 | -1.410370746 | NA | background | background | background |
| ENSG00000160255.17 | -1.682114115 | background | background | background | background |
| ENSG00000160285.14 | -1.272152335 | background | background | background | background |
| ENSG00000160401.14 | 1.32332563 | background | background | background | background |
| ENSG00000160469.16 | 1.939068998 | background | background | background | 5 |
| ENSG00000160678.11 | -1.630981514 | background | background | background | background |
| ENSG00000160685.13 | 1.117065015 | NA | background | background | 5 |
| ENSG00000160752.14 | -1.034405997 | background | background | background | 5 |
| ENSG00000160807.12 | 1.88450027 | background | background | background | 5 |
| ENSG00000160888.6 | 1.453212184 | NA | background | background | background |
| ENSG00000160951.3 | 1.722618664 | background | background | background | background |
| ENSG00000160963.13 | 1.634669271 | background | background | background | background | 5 |
| ENSG00000160973.7 | 1.642047475 | NA | background | background | background |
| ENSG00000160991.15 | 1.004308494 | background | background | background | 5 |
| ENSG00000161031.12 | -2.310026604 | background | background | background | background |
| ENSG00000161040.16 | 1.16518049 | background | background | background | 5 |
| ENSG00000161082.12 | -1.418465435 | background | background | background | 5 |
| ENSG00000161180.10 | 1.041345061 | background | background | background | 5 |
| ENSG00000161243.8 | -1.673473634 | background | background | background | 4 |
| ENSG00000161381.13 | 3.596652782 | background | background | background | 4 |
| ENSG00000161509.13 | 1.712709731 | background | background | background | 5 |
| ENSG00000161647.18 | -2.018988827 | background | background | background | background |
| ENSG00000161677.11 | -1.359882388 | background | background | background | 5 |
| Gene ID     | Log2 Fold Change | Value     | p-value   | Background | Annotation |
|------------|------------------|-----------|-----------|------------|------------|
| ENSG00000163472.18 | 1.729581764 | 5         | background | background |
| ENSG00000163491.16 | 1.646649188 | 5         | background | background |
| ENSG00000163501.6  | 1.71056099  | 5         | background | background |
| ENSG00000163536.12 | -1.03449073 | 5         | background | background |
| ENSG00000163558.12 | -1.492639338 | 5        | background | background |
| ENSG00000163586.9  | -1.268638159 | 5         | background | background |
| ENSG00000163599.14 | -3.270644385 | 5         | background | background |
| ENSG00000163606.10 | 3.854008323  | 5         | background | background |
| ENSG00000163624.5  | -1.529395546 | 5         | background | background |
| ENSG00000163644.14 | 1.041142616  | 5         | background | background |
| ENSG00000163762.6  | 2.912343423  | 5         | background | background |
| ENSG00000163792.6  | 2.452688073  | NA        | background | background |
| ENSG00000163794.6  | -1.03322415  | NA        | background | background |
| ENSG00000163864.15 | -1.317713875 | 5         | background | background |
| ENSG00000163923.9  | 1.729092201  | 5         | background | background |
| ENSG00000163947.11 | 1.152829174  | 3         | background | background |
| ENSG00000163958.13 | -2.41085834  | 5         | background | background |
| ENSG00000163959.9  | -1.45675785  | 5         | background | background |
| ENSG00000164076.16 | 3.16583822   | 5         | background | background |
| ENSG00000164082.14 | 4.170251036  | 5         | background | background |
| ENSG00000164096.12 | -1.120957093 | 5         | background | background |
| ENSG00000164175.14 | 3.069147261  | 5         | background | background |
| ENSG00000164181.13 | -1.035419579 | 5         | background | background |
| ENSG00000164309.14 | 2.431862574  | 5         | background | background |
| ENSG00000164318.17 | 2.8407144    | 5         | background | background |
| ENSG00000164406.7  | -2.27984104  | 5         | background | background |
| ENSG00000164442.9  | -1.560516606 | 5         | background | background |
| ENSG00000164463.12 | 1.051678251  | 5         | background | background |
| ENSG00000164591.13 | 2.54751476   | 5         | background | background |
| ENSG00000164604.12 | -1.642849296 | 5         | background | background |
| ENSG00000164620.8  | 1.167133394  | 5         | background | background |
| ENSG00000164626.8  | 2.845735285  | 5         | background | background |
| ENSG00000164638.10 | -1.750870359 | 5         | background | background |
| ENSG00000164649.19 | -1.60434188  | 5         | background | background |
| ENSG00000164674.15 | 1.130979023  | 5         | background | background |
| ENSG00000164690.7  | -1.026803619 | 5         | background | background |
| ENSG00000164938.13 | 1.842115906  | 5         | background | background |
| ENSG00000165028.11 | -1.295602367 | 5         | background | background |
| ENSG00000165102.14 | -1.34460606  | 4         | background | background |
| ENSG00000165171.10 | -1.445714373 | 4         | background | background |
| ENSG00000165175.15 | -1.16854171  | NA        | background | background |
| Ensembl Transcript ID | Log2 Fold Change | Expression Level | p-Value | Benjamini Correction |
|----------------------|-----------------|-----------------|---------|---------------------|
| ENSG00000165188.13   | -1.814340259    | NA              | background | background |
| ENSG00000165194.15   | 3.833955755     | background      | NA       | 5                   |
| ENSG00000165197.4    | 2.100955042     | background      | background | 5                   |
| ENSG00000165471.6    | -1.440087144    | NA              | background | background |
| ENSG00000165475.13   | -1.681681042    | background      | background | 5                   |
| ENSG00000165495.15   | 1.32473466      | background      | background | 4                   |
| ENSG00000165507.8    | 1.395326748     | NA              | background | 5                   |
| ENSG00000165617.14   | 3.398067916     | background      | background | background |
| ENSG00000165716.10   | 2.418483262     | NA              | background | 5                   |
| ENSG00000165799.4    | 2.137230885     | NA              | background | background |
| ENSG00000165828.14   | -1.393315852    | background      | background | background |
| ENSG00000165861.13   | 1.152711483     | background      | background | 4                   |
| ENSG00000165863.16   | -1.294641848    | background      | background | 5                   |
| ENSG00000165868.13   | -1.386800045    | background      | background | 4                   |
| ENSG00000165895.17   | 1.659691777     | background      | background | 5                   |
| ENSG00000165953.9    | -1.812094539    | background      | background | background |
| ENSG00000165959.11   | -1.670076056    | background      | background | 5                   |
| ENSG00000165972.12   | 1.396775752     | background      | background | background |
| ENSG00000165996.13   | -1.12056594     | background      | background | background |
| ENSG00000166025.17   | 2.863693831     | background      | background | 4                   |
| ENSG00000166046.10   | -1.987754213    | background      | background | 5                   |
| ENSG00000166073.10   | 1.222411276     | background      | background | 4                   |
| ENSG00000166173.10   | 1.635285711     | background      | background | background |
| ENSG00000166289.5    | 1.076312009     | NA              | background | 5                   |
| ENSG00000166311.9    | -1.017009724    | background      | background | background |
| ENSG00000166326.6    | 1.043639234     | background      | background | 5                   |
| ENSG00000166341.7    | 3.593952423     | background      | background | 4                   |
| ENSG00000166391.14   | -1.279246931    | background      | background | 5                   |
| ENSG00000166482.11   | 1.124539404     | background      | background | background |
| ENSG00000166589.12   | -1.063961524    | background      | background | background |
| ENSG00000166592.11   | 4.274486993     | background      | background | background |
| ENSG00000166628.10   | 2.020150482     | background      | background | background |
| ENSG00000166682.10   | 2.020150482     | background      | background | background |
| ENSG00000166680.10   | 1.833568899     | background      | background | 5                   |
| ENSG00000166681.14   | 1.103478227     | background      | background | 5                   |
| ENSG00000166816.13   | -1.028236443    | background      | background | 5                   |
| ENSG00000166819.11   | -1.287519324    | background      | background | 5                   |
| ENSG00000166821.8    | -1.165334457    | background      | background | background |
| ENSG00000166831.8    | 1.54285175      | background      | background | 5                   |
| ENSG00000166866.12   | -1.40785458     | background      | background | 5                   |
| ENSG00000166923.10   | 1.587726549     | NA              | background | 5                   |
| ENSG00000166924.8    | 1.219994129     | background      | background | background |
| GeneID       | Value       | Background | NA | Background | Value       | Background | NA | Background | Value       | Background | NA | Background |
|-------------|-------------|------------|----|------------|-------------|------------|----|------------|-------------|------------|----|------------|
| ENSG00000166963.12 | 3.540528602 | background | NA | background | background | 5           |    | background | background | 5           |    | background |
| ENSG00000166984.11 | -1.835077429 | background | NA | background | background | 5           |    | background | background | 5           |    | background |
| ENSG00000166704.11 | 1.653684114 | background | NA | background | background | 5           |    | background | background | 5           |    | background |
| ENSG00000166165.18 | 2.889692543 | background | NA | background | background | 5           |    | background | background | 5           |    | background |
| ENSG00000166191.11 | 3.858779264 | background | NA | background | background | 5           |    | background | background | 5           |    | background |
| ENSG000001667244.18 | -1.8359123 | background | NA | background | background | 5           |    | background | background | 5           |    | background |
| ENSG000001667550.10 | 1.13121226  | background | NA | background | background | 5           |    | background | background | 5           |    | background |
| ENSG000001667552.13 | -1.24928644 | background | NA | background | background | 5           |    | background | background | 5           |    | background |
| ENSG000001667588.12 | -1.42263093 | background | NA | background | background | 5           |    | background | background | 5           |    | background |
| ENSG000001667600.13 | 1.337750591 | background | NA | background | background | 5           |    | background | background | 5           |    | background |
| ENSG000001667664.8 | -2.103621424 | background | NA | background | background | 5           |    | background | background | 5           |    | background |
| ENSG000001667702.11 | -1.117562919 | background | NA | background | background | 5           |    | background | background | 5           |    | background |
| ENSG000001667703.14 | 1.047148389 | background | NA | background | background | 5           |    | background | background | 5           |    | background |
| ENSG000001667711.13 | -1.366848275 | background | NA | background | background | 5           |    | background | background | 5           |    | background |
| ENSG000001667741.10 | -1.012304577 | background | NA | background | background | 5           |    | background | background | 5           |    | background |
| ENSG000001667767.13 | -1.061031703 | background | NA | background | background | 5           |    | background | background | 5           |    | background |
| ENSG000001667799.9 | -1.219804889 | background | NA | background | background | 5           |    | background | background | 5           |    | background |
| ENSG000001667800.9 | -1.990573889 | background | NA | background | background | 5           |    | background | background | 5           |    | background |
| ENSG000001667815.11 | -2.244285528 | background | NA | background | background | 5           |    | background | background | 5           |    | background |
| ENSG000001667861.15 | 1.065947313  | background | NA | background | background | 5           |    | background | background | 5           |    | background |
| ENSG000001667930.15 | -1.36053588  | background | NA | background | background | 5           |    | background | background | 5           |    | background |
| ENSG000001667971.15 | 1.684005972  | background | NA | background | background | 5           |    | background | background | 5           |    | background |
| ENSG000001667995.15 | 1.255719708  | background | NA | background | background | 5           |    | background | background | 5           |    | background |
| ENSG000001668026.18 | 1.006201732  | background | NA | background | background | 5           |    | background | background | 5           |    | background |
| ENSG000001668077.13 | -1.154491859 | background | NA | background | background | 5           |    | background | background | 5           |    | background |
| ENSG000001668234.12 | -1.009340741 | background | NA | background | background | 5           |    | background | background | 5           |    | background |
| ENSG000001668243.10 | -1.311676419 | background | NA | background | background | 5           |    | background | background | 5           |    | background |
| ENSG000001668306.12 | -1.067696491 | background | NA | background | background | 5           |    | background | background | 5           |    | background |
| ENSG000001668314.17 | 1.443632676  | background | NA | background | background | 5           |    | background | background | 5           |    | background |
| ENSG000001668386.18 | 1.957534531  | background | NA | background | background | 5           |    | background | background | 5           |    | background |
| ENSG000001668389.17 | 1.310760565  | background | NA | background | background | 5           |    | background | background | 5           |    | background |
| ENSG000001668453.14 | 1.198148713  | background | NA | background | background | 5           |    | background | background | 5           |    | background |
| ENSG000001668505.6 | 4.540372491  | background | NA | background | background | 5           |    | background | background | 5           |    | background |
| ENSG000001668528.11 | -1.911232906 | background | NA | background | background | 5           |    | background | background | 5           |    | background |
| ENSG000001668621.14 | 1.527299014  | background | NA | background | background | 5           |    | background | background | 5           |    | background |
| ENSG000001668646.12 | -1.001330695 | background | NA | background | background | 5           |    | background | background | 5           |    | background |
| ENSG000001668672.3 | 1.251041455  | background | NA | background | background | 5           |    | background | background | 5           |    | background |
| ENSG000001668767.18 | -1.477123015 | background | NA | background | background | 5           |    | background | background | 5           |    | background |
| ENSG000001668743.12 | 2.422724931  | background | NA | background | background | 5           |    | background | background | 5           |    | background |
| ENSG000001668748.13 | 4.28086412   | background | NA | background | background | 5           |    | background | background | 5           |    | background |
| # | ENSG00000168781.21 | -1.631840071 | background | background | background | 5 |
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| 228 | ENSG00000168918.13 | 1.512214034 | background | background | background | 5 |
| 228 | ENSG00000168961.16 | 3.676401249 | background | background | background | 5 |
| 228 | ENSG00000168993.14 | 1.151258897 | background | background | background | 5 |
| 228 | ENSG00000169174.10 | -2.015661797 | background | background | background | 5 |
| 228 | ENSG00000169184.5 | 3.988655811 | NA | background | background | 5 |
| 228 | ENSG00000169193.11 | 1.142447757 | background | background | background | 5 |
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| 228 | ENSG00000169568.10 | -1.607737644 | NA | background | background | 5 |
| 228 | ENSG00000169918.9 | 1.309347328 | background | background | background | 5 |
| 228 | ENSG00000169926.10 | -1.450169371 | NA | background | background | 5 |
| 228 | ENSG00000169962.4 | -1.707569466 | background | background | background | 5 |
| 228 | ENSG00000170011.13 | -1.540410147 | background | background | background | 5 |
| 228 | ENSG00000170099.5 | -1.563343405 | background | background | background | 5 |
| 228 | ENSG00000170100.13 | 1.33753125 | background | background | background | 5 |
| 228 | ENSG00000170271.10 | 1.736046498 | background | background | background | 5 |
| 228 | ENSG00000170324.20 | 1.332702623 | background | background | background | 5 |
| 228 | ENSG00000170325.14 | 2.845774148 | background | background | background | 5 |
| 228 | ENSG00000170345.9 | 1.244665548 | NA | background | background | 5 |
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| 228 | ENSG00000170519.8 | 1.789830333 | NA | background | background | 5 |
| 228 | ENSG00000170525.19 | -1.677923968 | background | background | background | 5 |
| 228 | ENSG00000170537.12 | 1.176279243 | S | background | background | 5 |
| 228 | ENSG00000170579.16 | 1.548983024 | background | background | background | 5 |
| 228 | ENSG00000170734.11 | 1.062225646 | background | background | background | 5 |
| 228 | ENSG00000170801.9 | 5.799994325 | background | background | background | 5 |
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| Gene ID          | Value       | Background | Background | Background | Position |
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| ENSG00000170959.14 | 1.762842676  | background | background | background | 4        |
| ENSG00000170961.6 | 1.416015829  | NA         | background | background |          |
| ENSG00000171056.7 | 1.051328488  | NA         | background | background |          |
| ENSG00000171124.12 | 4.342804988  | background | background | background |          |
| ENSG00000171174.13 | -2.039797555 | background | background | background | 4        |
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| ENSG00000171227.6 | -1.79270542  | background | background | background |          |
| ENSG00000171234.13 | 1.03403071   | background | background | background |          |
| ENSG00000171310.10 | 2.953357647  | background | background | background |          |
| ENSG00000171345.13 | -1.10771728  | NA         | background | background |          |
| ENSG00000171433.11 | -2.038048466 | NA         | background | background |          |
| ENSG00000171451.13 | 1.107948699  | NA         | background | background |          |
| ENSG00000171462.14 | 1.067232766  | background | background | background |          |
| ENSG00000171540.7 | 4.716121112  | background | background | background |          |
| ENSG00000171766.15 | -1.412741856 | background | background | background |          |
| ENSG00000171786.5 | 2.901861198  | NA         | background | background |          |
| ENSG00000171794.3 | 4.240658852  | background | background | background |          |
| ENSG00000171811.13 | 1.833848196  | background | background | background |          |
| ENSG00000171823.6 | -1.1244376   | NA         | background | background |          |
| ENSG00000171837.3 | 2.136969093  | NA         | background | background |          |
| ENSG00000171885.13 | -2.247093537 | background | background | background |          |
| ENSG00000172058.15 | 1.062707765  | background | background | background |          |
| ENSG00000172073.3 | 4.96517243   | background | background | background |          |
| ENSG00000172081.13 | -1.047966652 | background | background | background |          |
| ENSG00000172116.21 | 1.274767541  | background | background | background |          |
| ENSG00000172247.3 | 3.486626701  | NA         | background | background |          |
| ENSG00000172296.12 | -1.00841082  | background | background | background |          |
| ENSG00000172367.15 | -2.745886291 | background | background | background |          |
| ENSG00000172375.12 | 1.163655555  | background | background | background |          |
| ENSG00000172379.20 | 4.022641452  | background | background | background |          |
| ENSG00000172478.17 | -2.36827275  | background | background | background |          |
| ENSG00000172482.4 | -1.792241727 | background | background | background |          |
| ENSG00000172594.12 | -1.401538264 | background | background | background |          |
| ENSG00000172717.15 | 2.793913194  | background | background | background |          |
| ENSG00000172733.11 | 4.806321361  | NA         | background | background |          |
| ENSG00000172738.11 | 1.82486966   | background | background | background |          |
| ENSG00000172771.11 | -1.496752458 | background | background | background |          |
| ENSG00000172782.11 | -1.453811408 | background | background | background |          |
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| ENSG00000172803.17   | 2.240614883 | background | background | background | 5      |
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| ENSG00000172818.9    | 5.86618555   | background | background | background | 5      |
| ENSG00000172819.16   | 1.670349224  | background | background | background | 5      |
| ENSG00000172828.12   | -1.824078132 | background | background | background | 5      |
| ENSG00000172927.3    | 1.042863829  | background | background | background | 4      |
| ENSG00000172940.11   | 2.577405545  | background | background | background | 4      |
| ENSG00000172986.12   | -1.494198366 | background | background | background | 5      |
| ENSG00000173080.5    | 1.184067977  | NA      | NA      | background | 4      |
| ENSG00000173110.7    | 2.77029663   | NA      | background | background | 5      |
| ENSG00000173156.6    | 1.152577156  | background | background | background | 4      |
| ENSG00000173175.14   | 2.162204723  | background | background | background | 5      |
| ENSG00000173262.11   | -1.076957433 | background | background | background | 4      |
| ENSG00000173281.4    | 2.033497359  | NA      | background | background | 5      |
| ENSG00000173340.4    | 3.160274311  | background | background | background | 5      |
| ENSG00000173340.6.15 | 4.115228255  | background | background | background | 4      |
| ENSG00000173546.7    | 3.079771881  | background | background | background | 5      |
| ENSG00000173702.7    | 2.098595001  | background | background | background | 5      |
| ENSG00000173714.7    | 1.670135104  | NA      | background | background | 5      |
| ENSG00000173715.15   | -1.041860595 | background | background | background | 5      |
| ENSG00000173801.16   | -1.277388875 | S       | background | background | 5      |
| ENSG00000173805.15   | -2.796427138 | background | background | background | 5      |
| ENSG00000173825.6    | -1.814119977 | NA      | background | background | 5      |
| ENSG00000173846.12   | 1.905362146  | background | background | background | 5      |
| ENSG00000173894.10   | -1.120252572 | background | background | background | 5      |
| ENSG00000173930.8    | -1.517421674 | background | background | background | 5      |
| ENSG00000173991.5    | 1.562398702  | NA      | background | background | 5      |
| ENSG00000174125.7    | 2.952877501  | S       | background | background | 5      |
| ENSG00000174327.6    | -1.310361226 | NA      | background | background | 5      |
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| ENSG00000174405.13   | 1.164260599  | NA      | background | background | 5      |
| ENSG00000174460.3    | 1.485862475  | background | background | background | 5      |
| ENSG00000174516.14   | -1.29683765  | background | background | background | 5      |
| ENSG00000174804.3    | -1.40870927  | NA      | background | background | 5      |
| ENSG00000174827.13   | -1.292535614 | background | background | background | 5      |
| ENSG00000174844.14   | 3.491850162  | background | background | background | 5      |
| ENSG00000174871.10   | 1.303805234  | background | background | background | 5      |
| ENSG00000174898.15   | 4.445828595  | background | background | background | 5      |
| ENSG00000174945.13   | 2.199274743  | background | background | background | 5      |
| ENSG00000174990.4    | -1.237594186 | S       | background | background | 5      |
| ENSG00000174992.7    | -1.714541078 | background | background | background | 5      |
| Gene ID          | Value       | Background | 5 | 5 | 5 |
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| ENSG00000175003.12 | 2.29671307  | background | 5 | 5 | 5 |
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| ENSG00000175189.3  | -2.00759367 | background | 5 | 5 | 5 |
| ENSG00000175197.11 | 1.5793252   | background | 5 | 5 | 5 |
| ENSG00000175213.2  | 1.33588258  | background | 5 | 5 | 5 |
| ENSG00000175229.6  | 3.281583067 | background | 5 | 5 | 5 |
| ENSG00000175352.10 | 1.552273574 | background | 5 | 5 | 5 |

... (more rows follow)
| Gene ID       | Log2 Fold Change | Annotation 1 | Annotation 2 | Annotation 3 | Annotation 4 | Annotation 5 |
|--------------|-----------------|--------------|--------------|--------------|--------------|--------------|
| ENSG00000178226.10 | -1.419381349    | background   | background   | background   | background   | background   |
| ENSG00000178233.17 | 2.950287184     | NA           | background   | background   |              |              |
| ENSG00000178297.12 | -1.003267698    | background   | NA           | background   |              |              |
| ENSG00000178301.3  | -1.133600113    | NA           | background   | background   |              |              |
| ENSG00000178342.4  | 1.672935966     | NA           | NA           | NA           |              |              |
| ENSG00000178363.4  | 3.184839332     | NA           | background   | background   | background   | background   |
| ENSG00000178445.9  | -1.007133013    | background   | background   | background   |              |              |
| ENSG00000178467.17 | 2.626346053     | background   | background   | background   | background   | background   |
| ENSG00000178502.5  | 1.371469115     | NA           | background   | background   |              |              |
| ENSG00000178562.17 | 3.076825247     | background   | background   | background   |              |              |
| ENSG00000178685.13 | -1.03707913     | background   | background   | background   |              |              |
| ENSG00000178804.7  | 3.908272587     | background   | background   | background   |              |              |
| ENSG00000178826.10 | -1.342505317    | background   | background   | background   |              |              |
| ENSG00000179071.4  | -3.484846304    | NA           | background   | background   |              |              |
| ENSG00000179085.7  | -1.321523498    | NA           | background   | background   |              |              |
| ENSG00000179168.14 | 2.682567247     | background   | background   | background   |              |              |
| ENSG00000179240.9  | -1.304967342    | NA           | background   | background   |              |              |
| ENSG00000179256.2  | -1.694913042    | NA           | background   | background   |              |              |
| ENSG00000179292.4  | 2.735484169     | NA           | background   | background   |              |              |
| ENSG00000179403.11 | -1.12576536     | NA           | background   | background   |              |              |
| ENSG00000179431.6  | 1.36657619      | NA           | background   | background   |              |              |
| ENSG00000179604.9  | -1.159730729    | NA           | background   | background   |              |              |
| ENSG00000179750.15 | -1.286900001    | background   | background   | background   |              |              |
| ENSG00000179826.6  | 2.270313967     | NA           | background   | background   |              |              |
| ENSG00000179921.14 | 1.70919063      | NA           | background   | background   |              |              |
| ENSG00000180245.4  | 2.624724429     | background   | background   | background   |              |              |
| ENSG00000180432.5  | -2.078716314    | NA           | background   | background   |              |              |
| ENSG00000180532.10 | 2.571647587     | background   | background   | background   |              |              |
| ENSG00000180549.7  | 1.579144798     | NA           | background   | background   |              |              |
| ENSG00000180573.9  | 2.075218048     | NA           | background   | background   |              |              |
| ENSG00000180596.7  | 2.156731669     | NA           | background   | background   |              |              |
| ENSG00000180611.6  | -1.435986559    | NA           | background   | background   |              |              |
| ENSG00000180616.8  | 1.954513715     | NA           | background   | background   |              |              |
| ENSG00000180739.13 | 1.007193701     | NA           | background   | background   |              |              |
| ENSG00000180758.11 | -1.801538626    | background   | background   | background   |              |              |
| ENSG00000180767.9  | -1.436161901    | background   | background   | background   |              |              |
| ENSG00000180773.14 | 1.044141418     | background   | background   | background   |              |              |
| ENSG00000180891.12 | 1.969757571     | background   | background   | background   |              |              |
| ENSG00000180929.5  | 2.1026305      | NA           | background   | background   |              |              |
| ENSG00000181016.9  | 1.537875235     | NA           | background   | background   |              |              |
| ENSG00000181220.15 | 1.083568666     | background   | background   | background   |              |              |
| Gene ID         | Value      | Background | Background | Background | Background |
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| ENSG00000181392.14 | -1.443110977 | background | background | background | background |
| ENSG00000181408.3 | 1.041965287 | NA         | background | background | background |
| ENSG00000181409.11 | -1.96057845 | background | background | background | 5          |
| ENSG00000181513.14 | -1.19355365 | background | background | background | background |
| ENSG00000181649.5 | 2.143859753 | NA         | background | background | background |
| ENSG00000182013.17 | 2.871703928 | background | background | background | background |
| ENSG00000182022.17 | -1.169159197 | background | background | background | 5          |
| ENSG00000182054.9 | -1.328063463 | background | background | background | background |
| ENSG00000182156.9 | -2.12156409 | background | background | background | background |
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| ENSG00000182227.11 | -1.543608622 | background | NA         | background | 5          |
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| ENSG00000182575.7 | 2.591376697 | NA         | background | background | background |
| ENSG00000182580.2 | 2.600352145 | background | background | background | 5          |
| ENSG00000182752.9 | 2.77257274 | background | background | background | 5          |
| ENSG00000182759.3 | 1.300065506 | NA         | NA         | background | background |
| ENSG00000182791.4 | -1.128359984 | NA         | background | background | background |
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| ENSG00000182986.12 | 1.031374847 | background | background | background | 5          |
| ENSG00000183018.8 | 1.051777335 | background | background | background | background |
| ENSG00000183019.7 | 4.116627806 | NA         | background | background | background |
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| ENSG00000183072.9 | 3.571705557 | NA         | background | background | background |
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| ENSG00000183134.4 | -2.6984965 | NA         | background | background | background |
| ENSG00000183248.11 | -1.241927016 | background | background | background | background |
| ENSG00000183423.11 | 3.152555443 | background | NA         | background | background |
| ENSG00000183508.4 | 4.032136308 | NA         | background | background | 4          |
| ENSG00000183578.6  | -1.941118014 | NA     | background | background | 5     |
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| ENSG00000183682.7   | 1.515081971  | background | background | background | 5     |
| ENSG00000183723.12  | -1.277781295 | NA     | background | background | 5     |
| ENSG00000183801.7   | 1.228285268 | background | background | background | 5     |
| ENSG00000183807.7   | 2.887068835  | background | background | background | 5     |
| ENSG00000183813.6   | 2.122257707 | NA     | background | background | 5     |
| ENSG00000183828.14  | -2.036513157 | background | background | background | 5     |
| ENSG00000183844.16  | -1.292345186 | background | background | background | 5     |
| ENSG00000183853.17  | 1.484281663  | background | background | background | 4     |
| ENSG00000183943.5   | 1.014409231  | background | background | background | 5     |
| ENSG00000183960.8   | 4.17822077   | background | background | background | 5     |
| ENSG00000183971.6   | 1.270247959  | NA     | NA         | NA         | background |
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| ENSG00000184117.11  | -1.290273061 | background | background | background | 4     |
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| ENSG00000184260.5   | -1.118315277 | NA     | NA         | NA         | background |
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| ENSG00000184378.2   | 1.197071689  | NA     | background | background | 5     |
| ENSG00000184470.20  | -1.32185182  | background | background | background | 5     |
| ENSG00000184471.7   | 1.563192209  | NA     | background | background | 5     |
| ENSG00000184508.10  | -1.234114777 | background | background | background | 5     |
| ENSG00000184678.10  | 1.776096757  | NA     | background | background | 5     |
| ENSG00000184702.18  | 1.06234036   | background | background | background | 5     |
| ENSG00000184709.7   | -2.641504784 | NA     | background | background | 5     |
| ENSG00000184895.7   | -1.681999365 | NA     | background | background | 5     |
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| ENSG00000184925.11  | -2.118378457 | background | NA         | NA         | background |
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| ENSG00000185055.10  | 1.827763295  | background | background | background | 5     |
| ENSG00000185155.11  | 1.110246426  | NA     | background | background | 5     |
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| Gene ID          | Value     | Background | Background | Background | Background |
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| ENSG00000185386.14 | 2.39829714 | background | background | background | background |
| ENSG00000185467.7  | -1.023394435 | background | background | background | background |
| ENSG00000185483.11 | 1.490498554  | background | background | background | 5          |
| ENSG00000185614.4  | 1.468102483  | background | background | background | background |
| ENSG00000185668.7  | 2.081833642  | background | background | background | background |
| ENSG00000185686.17 | 2.225265442  | background | background | background | 5          |
| ENSG00000185955.4  | 3.009317978  | background | background | background | background |
| ENSG00000185988.12 | 2.41642329   | background | background | background | background |
| ENSG00000186193.8  | -1.428962901 | background | background | background | background |
| ENSG00000186197.13 | 3.982552781  | background | background | background | 5          |
| ENSG00000186198.3  | 2.230658642  | background | background | background | background |
| ENSG00000186204.14 | -1.82968429  | background | background | background | background |
| ENSG00000186205.12 | -1.18335828  | background | background | background | 5          |
| ENSG00000186212.3  | -1.192486001 | NA         | background | background | 5          |
| ENSG00000186226.8  | 2.320100283  | NA         | background | background | background |
| ENSG00000186310.9  | 1.623046786  | NA         | background | background | 5          |
| ENSG00000186314.11 | -1.56827171  | background | background | background | 5          |
| ENSG00000186329.9  | 1.052953627  | NA         | background | background | 3          |
| ENSG00000186354.10 | 3.539154691  | background | background | background | background |
| ENSG00000186517.13 | 3.97237389   | background | background | background | background |
| ENSG00000186642.15 | 1.24977804   | background | background | background | 5          |
| ENSG00000186732.13 | -2.750570022 | background | background | background | 4          |
| ENSG00000186810.7  | -1.525550197 | NA         | background | background | background |
| ENSG00000186827.10 | 4.276409768  | background | background | background | background |
| ENSG00000186838.13 | 2.803892507  | background | background | background | background |
| ENSG00000186891.13 | 2.403463979  | background | NA         | background | background |
| ENSG00000186907.7  | -1.590904139 | background | background | background | background |
| ENSG00000186918.13 | -1.687024031 | background | background | background | 5          |
| ENSG00000186919.12 | 2.302334121  | background | background | background | background |
| ENSG00000186994.11 | 1.356402678  | background | background | background | background |
| ENSG00000187017.15 | -1.668394715 | background | background | background | 5          |
| ENSG00000187045.16 | -2.445438821 | background | background | background | 5          |
| ENSG00000187122.16 | 1.961251099  | background | background | background | 5          |
| ENSG00000187193.8  | -1.283762681 | NA         | background | background | background |
| ENSG00000187260.15 | 2.554797194  | background | background | background | 3          |
| ENSG00000187288.10 | -2.197889551 | background | background | background | background |
| ENSG00000187475.5  | 4.142937119  | NA         | background | background | background |
| ENSG00000187479.5  | 3.433760322  | NA         | background | background | 4          |
| ENSG00000187583.10 | -1.256576702 | background | background | background | background |
| ENSG00000187595.15 | -1.619005303 | background | NA         | background | background |
| Gene ID            | Value       | Background | NA1 | NA2 | Background | NA1 |
|-------------------|-------------|------------|-----|-----|------------|-----|
| ENSG00000187627.15 | 1.477684812 | background | NA  | NA  | background  | NA  |
| ENSG00000187642.9 | -1.904874438| background | background | 5  | background  | 5  |
| ENSG00000187664.8 | 4.901835184 | background | background | 4  | background  | 4  |
| ENSG00000187672.12| 3.431554747 | background | background | 5  | background  | 5  |
| ENSG00000187687.8 | 1.517852389 | background | background | 4  | background  | 4  |
| ENSG00000187700.13| 2.056724048 | background | background | 4  | background  | 4  |
| ENSG00000187808.4 | -2.428911902| background | background | 5  | background  | 5  |
| ENSG00000187837.3 | 2.298698676 | background | background | 5  | background  | 5  |
| ENSG00000187838.16| -2.217697438| background | background | 5  | background  | 5  |
| Gene ID                  | log2FC    | Annotation 1          | Annotation 2          | Annotation 3          | Annotation 4          |
|-------------------------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|
| ENSG00000196338.12      | 4.6114963 | background            | background            | background            | background            |
| ENSG00000196371.3       | -1.036675 | NA                    | background            | background            | background            |
| ENSG00000196421.8       | -1.125977 | NA                    | background            | 5                     | background            |
| ENSG00000196502.11      | -1.078953 | background            | background            | background            | background            |
| ENSG00000196542.8       | 2.922149  | NA                    | 5                     | background            | background            |
| ENSG00000196562.14      | 1.694848  | background            | background            | background            | 5                     |
| ENSG00000196628.15      | 2.104659  | background            | background            | background            | 3                     |
| ENSG00000196660.10      | -2.400152 | NA                    | background            | 4                     | background            |
| ENSG00000196666.4       | -1.652432 | background            | background            | background            | background            |
| ENSG00000196670.13      | -1.159773 | background            | background            | background            | background            |
| ENSG00000196754.10      | 1.634027  | background            | background            | background            | background            |
| ENSG00000196787.3       | 1.927356  | NA                    | background            | background            | background            |
| ENSG00000196872.11      | 1.250146  | background            | background            | 4                     | background            |
| ENSG00000196972.8       | -1.470599 | NA                    | NA                    | background            | background            |
| ENSG00000196975.15      | -1.906208 | background            | background            | 5                     | background            |
| ENSG00000197019.4       | 1.202878  | NA                    | background            | 5                     | background            |
| ENSG00000197043.13      | -1.462994 | background            | background            | 5                     | background            |
| ENSG00000197062.11      | -1.372606 | background            | background            | 5                     | background            |
| ENSG00000197093.10      | 2.282361  | background            | background            | 4                     | background            |
| ENSG00000197153.4       | 2.763266  | NA                    | NA                    | background            | background            |
| ENSG00000197181.11      | 2.002461  | background            | background            | 5                     | background            |
| ENSG00000197241.3       | -3.736890 | background            | NA                    | 5                     | background            |
| ENSG00000197324.8       | 1.024020  | background            | background            | 5                     | background            |
| ENSG00000197329.11      | 1.106187  | background            | background            | 5                     | background            |
| ENSG00000197363.9       | -1.415615 | background            | background            | 5                     | background            |
| ENSG00000197380.10      | 2.159902  | background            | background            | 4                     | background            |
| ENSG00000197408.8       | 1.277589  | background            | background            | 4                     | background            |
| ENSG00000197444.9       | -1.625866 | background            | background            | 4                     | background            |
| ENSG00000197448.13      | -1.154158 | background            | background            | 5                     | background            |
| ENSG00000197461.13      | 2.633245  | background            | background            | 5                     | background            |
| ENSG00000197471.11      | -1.862188 | NA                    | background            | 5                     | background            |
| ENSG00000197496.5       | -1.119803 | background            | background            | 5                     | background            |
| ENSG00000197535.14      | 2.181388  | background            | background            | 5                     | background            |
| ENSG00000197558.11      | -1.572925 | background            | NA                    | 5                     | background            |
| ENSG00000197594.11      | 1.068342  | background            | background            | 5                     | background            |
| ENSG00000197599.12      | -2.103196 | background            | background            | 5                     | background            |
| ENSG00000197635.9       | -1.194925 | background            | background            | 5                     | background            |
| ENSG00000197647.11      | 1.396919  | background            | background            | 5                     | background            |
| ENSG00000197712.11      | -1.034393 | background            | background            | 4                     | background            |
| ENSG00000197747.8       | -1.058305 | NA                    | background            | 4                     | background            |
| ENSG00000197763.14      | -1.195792 | background            | background            | 5                     | background            |
| Gene Symbol | Fold Change | Value | Background Color | Value | Background Color |
|-------------|-------------|-------|------------------|-------|------------------|
| ENSG00000197837.3 | 1.042342199 | NA | background | background | background |
| ENSG00000197852.9 | 1.331270478 | NA | background | background | background |
| ENSG00000197888.2 | 4.362548183 | background | background | background | background |
| ENSG00000197903.7 | 2.359446233 | NA | NA | NA | background |
| ENSG00000197943.9 | 1.877879666 | background | background | background | 4 |
| ENSG00000198026.7 | 2.422317682 | 5 | background | background | 5 |
| ENSG00000198074.9 | 1.405885927 | background | background | background | background |
| ENSG00000198125.12 | 2.587145561 | background | background | background | 5 |
| ENSG00000198203.9 | -1.869770105 | background | background | background | background |
| ENSG00000198223.16 | 1.171477398 | background | background | background | background |
| ENSG00000198342.5 | 1.653882235 | background | background | background | background |
| ENSG00000198417.6 | -2.160926026 | NA | background | background | background |
| ENSG00000198453.12 | 1.124015207 | background | background | NA | 5 |
| ENSG00000198515.13 | -2.702820242 | background | background | background | 5 |
| ENSG00000198569.9 | -1.432515709 | background | background | background | 5 |
| ENSG00000198576.3 | 3.971881929 | background | background | background | background |
| ENSG00000198610.10 | 2.828437032 | background | background | background | background |
| ENSG00000198729.4 | 4.71877027 | NA | background | background | 4 |
| ENSG00000198797.6 | -3.843621908 | background | background | background | 5 |
| ENSG00000198848.12 | 1.694673429 | background | background | background | 5 |
| ENSG00000198870.7 | -1.138242352 | background | background | background | 5 |
| ENSG00000198892.6 | 1.570375629 | background | background | background | background |
| ENSG00000198932.12 | -1.79236662 | background | background | 4 | 4 |
| ENSG00000198933.9 | 2.398804018 | background | background | 5 | 5 |
| ENSG00000198939.7 | 1.280320315 | background | background | background | 5 |
| ENSG00000198951.11 | -1.067725564 | background | background | background | background |
| ENSG00000198959.11 | 1.683479087 | background | background | background | 5 |
| ENSG00000203690.11 | -1.69055686 | background | background | background | 5 |
| ENSG00000203705.10 | 1.016825176 | background | background | background | background |
| ENSG00000203724.10 | -1.040603722 | NA | background | background | background |
| ENSG00000203811.1 | 1.618007665 | NA | background | background | 5 | 5 |
| ENSG00000203852.3 | 1.618007665 | NA | background | background | 5 | 5 |
| ENSG00000203872.6 | -1.615322416 | background | background | background | background |
| ENSG00000203896.9 | -1.433465807 | background | background | background | background |
| ENSG00000203942.4 | 1.420433495 | NA | background | background | background |
| ENSG00000203985.10 | -2.23393453 | background | background | background | background |
| ENSG00000203995.9 | 1.770430753 | background | background | background | background |
| ENSG00000204103.3 | 1.438939619 | NA | background | background | background |
| ENSG00000204128.5 | -1.08993491 | NA | background | background | background |
| Gene ID       | Expression Value | Annotation 1 | Annotation 2 | Annotation 3 | Annotation 4 |
|--------------|------------------|--------------|--------------|--------------|--------------|
| ENSG00000204228.3 | -1.116712459     | background   | background   | background   | background   |
| ENSG00000204248.10 | 1.033901284      | background   | background   | background   | 5            |
| ENSG00000204257.14 | -1.080841167     | NA           | background   | background   | 5            |
| ENSG00000204262.11 | 1.660249296      | background   | background   | background   | 5            |
| ENSG00000204314.10 | 1.102079668      | background   | background   | background   | background   |
| ENSG00000204390.9  | 1.041950844      | background   | background   | background   | background   |
| ENSG00000204420.8  | 3.13035232       | background   | NA           | background   | background   |
| ENSG00000204472.12 | -2.357311298     | background   | background   | background   | background   |
| ENSG00000204613.10 | -1.664091973     | background   | background   | background   | background   |
| ENSG00000204616.10 | -1.285212937     | background   | background   | background   | background   |
| ENSG00000204653.9  | -3.264765142     | background   | background   | background   | background   |
| ENSG00000204682.5  | -1.064917045     | NA           | background   | background   | background   |
| ENSG00000204839.8  | -1.060246202     | background   | background   | background   | background   |
| ENSG00000204922.4  | -1.33333943      | NA           | background   | background   | background   |
| ENSG00000204978.2  | -2.708837678     | NA           | background   | background   | background   |
| ENSG00000205116.3  | -1.770689637     | NA           | NA           | NA           | background   |
| ENSG00000205277.9  | 3.046855028      | background   | NA           | background   | background   |
| ENSG00000205307.11 | 3.4968871        | background   | background   | background   | background   |
| ENSG00000205362.11 | -1.298234332     | NA           | background   | background   | background   |
| ENSG00000205436.7  | -1.580474293     | background   | background   | background   | background   |
| ENSG00000205445.3  | 4.128120692      | NA           | background   | background   | background   |
| ENSG00000205476.8  | -1.036092141     | background   | background   | 5            | 5            |
| ENSG00000205517.12 | -1.547643583     | background   | background   | background   | background   |
| ENSG00000205853.10 | 2.795518438      | background   | background   | background   | background   |
| ENSG00000205861.11 | 1.155800848      | background   | background   | background   | background   |
| ENSG00000205869.2  | 2.248820449      | NA           | background   | background   | background   |
| ENSG00000205899.3  | 4.212505513      | NA           | background   | background   | background   |
| ENSG00000206561.12 | 2.770942964      | background   | background   | background   | 5            |
| ENSG00000211445.11 | -1.045682104     | background   | background   | background   | 4            |
| ENSG00000211452.10 | -2.281941231     | background   | background   | background   | 5            |
| ENSG00000213145.9  | -1.557144767     | background   | background   | background   | background   |
| ENSG00000213190.3  | 1.17371441       | NA           | 5            | background   | 5            |
| ENSG00000213366.12 | -1.086177867     | background   | background   | background   | 5            |
| ENSG00000213471.10 | 2.363307457      | background   | NA           | background   | background   |
| ENSG00000213654.9  | 3.640528752      | background   | background   | background   | background   |
| ENSG00000213694.3  | 3.930147917      | NA           | background   | background   | background   |
| ENSG00000213714.1  | 2.880478418      | NA           | background   | background   | background   |
| ENSG00000213722.8  | 1.110426768      | background   | background   | background   | background   |
| ENSG00000213759.9  | 1.391464147      | background   | background   | background   | 5            |
| ENSG00000213760.10 | 1.129123961      | background   | background   | background   | background   |
| ENSG00000213859.4  | -1.390684794     | NA           | background   | background   | background   |
| Ensembl ID | Gene Symbol | Log2 Fold Change | p-value | Genomic Region | Ensembl ID | Gene Symbol | Log2 Fold Change | p-value | Genomic Region |
|------------|-------------|-----------------|---------|----------------|------------|-------------|-----------------|---------|----------------|
| ENSG00000213886.3 | -1.876961631 | NA | background | background | ENSG00000213901.10 | 1.800812321 | background | background | background |
| ENSG00000213903.8 | 1.705583315 | NA | background | background | ENSG00000213965.3 | 1.175198012 | background | NA | background |
| ENSG00000214140.10 | 1.39647963 | NA | background | background | ENSG00000214338.10 | -1.712644268 | background | background | background |
| ENSG00000214491.8 | -1.156738275 | NA | background | background | ENSG00000214655.10 | 1.39647963 | NA | background | background |
| ENSG00000215375.6 | -1.085450494 | NA | background | background | ENSG00000215440.11 | 1.563022338 | background | background | background |
| ENSG00000215644.9 | 3.042406764 | NA | background | background | ENSG00000215790.6 | -1.029479066 | background | background | background |
| ENSG00000215906.8 | -2.463706971 | NA | background | background | ENSG00000216588.8 | -1.772754489 | background | background | background |
| ENSG00000217819.4 | 1.819891817 | NA | background | background | ENSG00000219438.8 | -1.144065098 | background | background | background |
| ENSG00000219607.3 | -1.865298691 | NA | background | background | ENSG00000221821.3 | -1.289150268 | NA | background | background |
| ENSG00000221983.9 | 3.550095081 | NA | background | background | ENSG00000222009.8 | 1.094276822 | background | background | background |
| ENSG000002223547.9 | 1.104277626 | NA | background | background | ENSG000002226124.6 | -1.3442504 | background | background | background |
| ENSG000002223573.6 | 3.550095081 | NA | background | background | ENSG00000222621.5 | -2.880881137 | background | background | background |
| ENSG000002227471.8 | 1.1723313 | NA | background | background | ENSG000002228594.3 | -1.903761475 | background | background | background |
| ENSG000002228716.6 | -1.206858845 | NA | background | background | ENSG000002229544.8 | 3.813486437 | NA | background | background |
| ENSG00000231887.6 | 1.023115694 | NA | background | background | ENSG00000232859.9 | -2.335200866 | NA | background | background |
| ENSG00000233822.4 | 1.857897772 | NA | background | background | ENSG00000234289.5 | 2.024043235 | NA | background | background |
| Gene ID   | Description | Value 1  | Value 2  | Value 3  | Value 4  |
|-----------|-------------|---------|---------|---------|---------|
| ENSG00000234602.7 | 3.52596714 | background | background | background | background |
| ENSG00000234776.4  | 3.210379414 | background | background | background | background |
| ENSG00000234906.9  | -1.12991277 | background | background | background | 4 |
| ENSG00000235750.9  | -2.20191277 | background | background | background | 5 |
| ENSG00000235863.3  | 1.888489285 | NA       | background | background | background |
| ENSG00000237289.9  | -1.759831088 | background | background | background | background |
| ENSG00000237412.6  | 4.119238289 | background | background | background | background |
| ENSG00000237441.9  | 1.15890946  | background | background | background | background |
| ENSG00000239697.10 | -1.228351384 | background | background | background | background |
| ENSG00000240065.7  | -1.396534434 | background | background | background | 5 |
| ENSG00000240694.8  | 2.055369743 | background | background | background | background |
| ENSG00000241106.6  | 1.965692511 | background | background | background | background |
| ENSG00000241322.4  | 1.518250896 | NA       | background | background | 5 |
| ENSG00000241484.9  | 2.076967686 | background | background | background | 5 |
| ENSG00000241635.7  | 3.455454502 | background | background | background | 5 |
| ENSG00000242173.8  | 2.450151597 | background | background | background | background |
| ENSG00000242220.6  | 1.309183619 | background | background | background | background |
| ENSG00000242689.2  | 1.797651132 | NA       | background | background | background |
| ENSG00000242715.7  | 1.240480993 | background | background | background | 5 |
| ENSG00000242732.4  | 3.04492543  | NA       | background | background | background |
| ENSG00000243279.3  | 1.154468454 | background | background | background | background |
| ENSG00000243955.5  | -1.684104012 | background | background | background | background |
| ENSG00000244067.2  | -1.477284231 | background | background | background | background |
| ENSG00000244187.7  | -1.413757366 | background | background | background | background |
| ENSG00000244474.5  | 4.150079032 | background | background | background | 5 |
| ENSG00000244486.8  | 1.808022253 | background | background | background | background |
| ENSG00000244607.5  | 3.146427375 | background | background | background | 4 |
| ENSG00000245848.2  | -1.332329963 | NA       | background | background | background |
| ENSG00000248405.10 | 4.73686479  | background | background | background | 5 |
| ENSG00000248592.7  | 1.063368919 | background | background | background | background |
| ENSG00000248712.7  | -1.53759608 | background | background | background | background |
| ENSG00000249158.6  | -1.426512087 | background | background | background | background |
| ENSG00000249373.3  | 1.080119256 | background | background | background | 5 |
| ENSG00000250067.11 | 1.02901104  | background | background | background | background |
| ENSG00000250799.9  | -1.467954392 | background | background | background | 5 |
| ENSG00000251201.8  | 2.294635021 | background | background | background | 5 |
| ENSG00000251357.4  | 2.19013597  | background | NA       | background | 5 |
| ENSG00000251569.1  | 2.286434171 | background | background | background | background |
| ENSG00000253250.2  | 3.598214991 | background | background | background | background |
| ENSG00000253293.4  | 1.889664305 | NA       | NA       | background | 5 |
| ENSG00000253304.1  | 1.220519601 | NA       | background | background | 5 |
| Genomic Accession | Log2 Fold Change | Description | Gene Symbol | Log10 P-value |
|------------------|-----------------|-------------|-------------|---------------|
| ENSG00000254402.6 | -1.184767306    | background  | background  | background     |
| ENSG00000254415.3 | 4.201004961     | background  | background  | background     |
| ENSG00000254827.5 | 1.10455136      | background  | background  | 4             |
| ENSG00000257335.8 | 1.60382493      | background  | background  | 5             |
| ENSG00000257529.5 | 3.09164586      | background  | background  | background     |
| ENSG00000257591.5 | 1.464016342     | background  | background  | background     |
| ENSG00000258311.5 | -1.094941616    | background  | background  | background     |
| ENSG00000258674.5 | 1.519696986     | background  | background  | background     |
| ENSG00000258947.6 | -1.19957316     | background  | background  | 5             |
| ENSG00000259332.3 | 1.590560862     | background  | background  | background     |
| ENSG00000259784.1 | 1.51436808      | background  | NA          | background     |
| ENSG00000260272.1 | 1.598139365     | background  | background  | 5             |
| ENSG00000260286.3 | 4.663504446     | NA          | background  | background     |
| ENSG00000260325.1 | 1.4496628       | NA          | background  | background     |
| ENSG00000260342.2 | 1.746471838     | background  | NA          | background     |
| ENSG00000260537.2 | 1.654427308     | background  | background  | 5             |
| ENSG00000261150.2 | -1.202123839    | background  | background  | background     |
| ENSG00000261308.2 | 3.65996271      | NA          | background  | background     |
| ENSG00000261341.6 | 1.63982691      | NA          | background  | background     |
| ENSG00000261594.3 | -1.548684011    | NA          | background  | background     |
| ENSG00000261678.2 | 1.219624505     | background  | background  | 5             |
| ENSG00000261701.6 | -1.151047588    | background  | background  | background     |
| ENSG00000261832.6 | -1.674093462    | background  | NA          | NA             |
| ENSG00000261857.6 | 2.365326786     | background  | background  | background     |
| ENSG00000263020.6 | 1.554797054     | background  | background  | 5             |
| ENSG00000263639.5 | 1.697290276     | background  | background  | 5             |
| ENSG00000266524.2 | -2.18021608     | background  | background  | background     |
| ENSG00000266714.7 | -1.050866336    | background  | NA          | NA             |
| ENSG00000267041.5 | 1.186233325     | background  | background  | background     |
| ENSG00000267060.5 | 1.020304278     | background  | background  | background     |
| ENSG00000267221.2 | -1.881002886    | background  | background  | background     |
| ENSG00000267534.2 | 1.518574724     | NA          | background  | background     |
| ENSG00000268041.2 | 3.896600046     | background  | background  | background     |
| ENSG00000269720.2 | 2.349717198     | background  | NA          | background     |
| ENSG00000270276.2 | 3.345676674     | NA          | background  | background     |
| ENSG00000270617.1 | 3.286946247     | background  | background  | background     |
| ENSG00000270647.5 | -1.962750651    | background  | background  | 5             |
| ENSG00000270882.2 | 1.866774492     | NA          | background  | background     |
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| ENSG00000271824.1 | -2.056457745    | NA          | background  | background     |
| ENSG00000272031.2 | 1.527787981     | background  | background  | 5             |
| ENSG00000272196.2 | 2.389915474 | NA | background | background | background |
|-------------------|-------------|----|------------|------------|------------|
| ENSG00000272414.5 | -1.453700744 | background | background | background | 5          |
| ENSG00000272573.5 | 2.449435665 | background | background | background | background |
| ENSG00000272822.1 | 4.36247837  | background | background | background | 5          |
| ENSG00000272968.5 | 1.923962206 | background | background | background | 5          |
| ENSG00000273047.1 | -1.979366789 | NA | NA | NA | background |
| ENSG00000273238.2 | 4.596476366 | NA | background | background | background |
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| ENSG00000274641.1 | 1.667573188 | NA | NA | NA | background |
| ENSG00000274750.2 | 1.177965534 | NA | NA | background | background |
| ENSG00000275074.1 | -1.323381739 | background | background | background | background |
| ENSG00000275713.2 | -1.585977583 | NA | NA | background | background |
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| ENSG00000277117.4 | -1.079480587 | background | background | background | 5          |
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| ENSG00000278195.1 | -1.285167657 | background | background | background | background |
| ENSG00000278558.4 | -1.262560524 | background | background | NA | 5          |
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| ENSG00000282936.1 | 1.887340201 | NA | NA | NA | background |
| ENSG00000282988.1 | 2.353054443 | NA | background | background | background |
| ENSG00000283071.1 | -2.893469555 | background | background | background | background |
| ENSG00000283654.1 | 4.056943037 | background | background | background | background |
| ENSG00000283765.1 | 2.089105272 | background | background | background | background |
| ENSG00000284188.1 | 2.479754598 | NA | background | NA | background |
| ENSG00000284713.1 | 4.038163414 | NA | background | background | background |