| gene_id         | length | log2FoldChange | pvalue   | padj     | Regulation |
|-----------------|--------|----------------|----------|----------|------------|
| TCONS_00021883  | 2258   | -4.54993697    | 8.01E-05 | 0.049014877 | Down       |
| TCONS_00126226  | 1430   | 3.994025687    | 9.46E-05 | 0.049014877 | Ups        |
| TCONS_00198388  | 1178   | -4.277291549   | 0.000226651 | 0.068809639 | Down       |
| TCONS_00412525  | 1684   | -1.583067364   | 0.000312063 | 0.068809639 | Down       |
| TCONS_00188170  | 1102   | -3.154583519   | 0.000332093 | 0.068809639 | Down       |
| TCONS_00275509  | 4407   | -3.097139996   | 0.000529255 | 0.091384678 | Down       |
| TCONS_00188744  | 622    | -3.599914979   | 0.000684857 | 0.101358791 | Down       |
| TCONS_00392672  | 901    | 2.645547149    | 0.001032363 | 0.133690988 | Ups        |
| TCONS_00361902  | 315    | 2.550948369    | 0.00135681 | 0.13641179 | Ups        |
| TCONS_00061949  | 818    | 3.454001724    | 0.001391142 | 0.13641179 | Ups        |
| TCONS_00429205  | 357    | 3.771383361    | 0.001450927 | NA       | Ups        |
| TCONS_00240278  | 2238   | -2.69718737    | 0.001490526 | 0.13641179 | Down       |
| TCONS_00144773  | 475    | 2.456741682    | 0.001623994 | 0.13641179 | Ups        |
| TCONS_00152812  | 416    | 2.407138912    | 0.001902615 | 0.13641179 | Ups        |
| TCONS_00392720  | 1150   | -3.695883485   | 0.001980886 | NA       | Down       |
| TCONS_00132046  | 953    | 2.788091152    | 0.001994012 | 0.13641179 | Ups        |
| TCONS_00361009  | 682    | 3.345664778    | 0.002102524 | 0.13641179 | Ups        |
| TCONS_00406127  | 4999   | -1.964439253   | 0.002106746 | 0.13641179 | Down       |
| TCONS_00329529  | 1288   | 2.348718703    | 0.002510129 | 0.145105183 | Ups        |
| TCONS_00000163  | 2293   | -2.291707455   | 0.002713137 | 0.145105183 | Down       |
| TCONS_00048874  | 346    | 2.354090443    | 0.002880057 | 0.145105183 | Ups        |
| TCONS_00412269  | 2809   | -3.551528912   | 0.00300475 | NA       | Down       |
| TCONS_00340307  | 1268   | -2.32220906    | 0.003037826 | 0.145105183 | Down       |
| TCONS_00217935  | 1036   | -2.236976854   | 0.003085508 | 0.145105183 | Down       |
| TCONS_00371279  | 719    | 3.011413211    | 0.003196844 | 0.145105183 | Ups        |
| TCONS_00412061  | 603    | 2.936019818    | 0.003344169 | 0.145105183 | Ups        |
| TCONS_00021654  | 692    | -3.110098921   | 0.00336151 | 0.145105183 | Down       |
| TCONS_00160151  | 280    | 3.19222427     | 0.003625763 | NA       | Ups        |
| TCONS_00413280  | 348    | -2.44533571    | 0.004134377 | 0.165012731 | Down       |
| TCONS_00065869  | 3355   | -2.075872686   | 0.004150576 | 0.165012731 | Down       |
| TCONS_00100383  | 3381   | 1.832458376    | 0.004332313 | 0.165012731 | Ups        |
| TCONS_00140949  | 932    | 3.393887601    | 0.00442698 | NA       | Ups        |
| TCONS_00412324  | 737    | -3.422683102   | 0.004528912 | NA       | Down       |
| TCONS_00275523  | 1277   | 2.315071738    | 0.004561694 | 0.165012731 | Ups        |
| TCONS_00363479  | 547    | 2.09289182     | 0.004619082 | 0.165012731 | Ups        |
| TCONS_00043996  | 2311   | 1.569867118    | 0.005285823 | 0.181199369 | Ups        |
| TCONS_00119811  | 3333   | -3.361050167   | 0.005308934 | NA       | Down       |
| TCONS_00091220  | 904    | -3.384340517   | 0.005366918 | NA       | Down       |
| TCONS_00341215  | 3023   | -2.853018286   | 0.005421989 | 0.181199369 | Down       |
| TCONS_00380395  | 841    | 1.992613667    | 0.005654943 | 0.183078779 | Ups        |
| TCONS_00160152  | 630    | 1.413009841    | 0.005912997 | 0.18455494 | Ups        |
| TCONS_00251924  | 3282   | -1.943007379   | 0.006056841 | 0.18455494 | Ups        |
| TCONS_00266360  | 204    | 2.561444672    | 0.006279389 | 0.185869923 | Ups        |
| TCONS_00164640  | 219    | 2.317104523    | 0.006600224 | 0.18993782 | Ups        |
| TCONS_00164085  | 2461   | -3.305159629   | 0.006712293 | NA       | Down       |
| Gene      | ID      | Fold Change | Significance  | P-Value  | Fold Value |
|-----------|---------|-------------|---------------|----------|------------|
| TCONS_00027557 | 6472   | -2.385164851 | 0.007193915   | 0.201429619 | Down       |
| TCONS_00085376 | 1688   | 3.25495951   | 0.007443367  | NA       | Down       |
| TCONS_00166191 | 951    | 1.790329693  | 0.007480049  | 0.203929754 | Ups        |
| TCONS_00392674 | 1516   | -3.250845026 | 0.007864331  | NA       | Down       |
| TCONS_00068091 | 206    | 2.979267934  | 0.008241184  | 0.218919648 | Ups        |
| TCONS_00041562 | 907    | -2.964849215 | 0.008601482  | NA       | Down       |
| TCONS_00165562 | 278    | 3.180351801  | 0.008751429  | NA       | Ups        |
| TCONS_00100984 | 3372   | 1.834263795  | 0.008907623  | 0.22792115 | Ups        |
| TCONS_00118863 | 861    | 1.357285943  | 0.008946731  | NA       | Ups        |
| TCONS_00316829 | 591    | 1.816403679  | 0.009020046  | 0.22792115 | Ups        |
| TCONS_00016718 | 1443   | 2.176967478  | 0.0092584    | 0.228373871 | Ups        |
| TCONS_00156556 | 632    | 3.128475263  | 0.009727975  | NA       | Ups        |
| TCONS_00119782 | 2059   | -2.014779626 | 0.010253502  | 0.234661952 | Down       |
| TCONS_00220845 | 662    | -2.502641148 | 0.010511013  | 0.234661952 | Down       |
| TCONS_00355496 | 1172   | 2.155309949  | 0.010648894  | 0.234661952 | Ups        |
| TCONS_00178467 | 1545   | -1.783385837 | 0.010721185  | 0.234661952 | Down       |
| TCONS_00022526 | 438    | 3.079279031  | 0.011025143  | NA       | Ups        |
| TCONS_00398810 | 4968   | -1.756651022 | 0.011045102  | 0.234661952 | Down       |
| TCONS_00012207 | 2219   | 2.11046804  | 0.011437913  | 0.234661952 | Ups        |
| TCONS_00068776 | 254    | 2.140469567  | 0.011523263  | 0.234661952 | Ups        |
| TCONS_00063412 | 1401   | 1.548839656  | 0.011955096  | 0.234661952 | Down       |
| TCONS_00316728 | 732    | -2.458762734 | 0.012047328  | 0.234661952 | Down       |
| TCONS_00116853 | 571    | 1.793907681  | 0.012050215  | 0.234661952 | Ups        |
| TCONS_00160787 | 1816   | 1.812425003  | 0.012530053  | 0.234661952 | Ups        |
| TCONS_00164101 | 7546   | -1.410857609 | 0.012771037  | 0.234661952 | Down       |
| TCONS_000406128 | 4584   | -1.497674768 | 0.012856859  | 0.234661952 | Down       |
| TCONS_00177371 | 286    | 1.395539716  | 0.012881546  | 0.234661952 | Ups        |
| TCONS_00142384 | 1839   | 3.027913513  | 0.013556812  | NA       | Ups        |
| TCONS_00026350 | 1892   | -2.880905713 | 0.013753444  | NA       | Down       |
| TCONS_00291677 | 471    | 1.425518128  | 0.013820503  | 0.234661952 | Ups        |
| TCONS_00130649 | 1583   | 1.724937342  | 0.013824151  | 0.234661952 | Ups        |
| TCONS_00188172 | 1682   | -1.717210203 | 0.013898159  | 0.234661952 | Down       |
| TCONS_00164086 | 2097   | -1.720681098 | 0.013995001  | 0.234661952 | Down       |
| TCONS_00021720 | 1981   | -2.267223584 | 0.014125636  | 0.234661952 | Down       |
| TCONS_00352189 | 1825   | -1.542129869 | 0.01417098  | 0.234661952 | Ups        |
| TCONS_00334414 | 444    | 1.980317238  | 0.014269984  | 0.234661952 | Ups        |
| TCONS_00272470 | 2232   | 2.944979123  | 0.015676696  | NA       | Ups        |
| TCONS_00007789 | 877    | -2.971544915 | 0.015952591  | NA       | Down       |
| TCONS_00225946 | 2050   | -1.592892998 | 0.016595979  | 0.268647414 | Down       |
| TCONS_00133376 | 1986   | 2.238187706  | 0.017204114  | NA       | Ups        |
| TCONS_00227969 | 6200   | -1.589709331 | 0.018335238  | 0.290373417 | Down       |
| TCONS_00047737 | 1649   | -2.510159485 | 0.018468613  | NA       | Down       |
| TCONS_00085019 | 1731   | -1.44459076  | 0.018695948  | 0.290373417 | Down       |
| TCONS_00244164 | 616    | 2.658770079  | 0.018745679  | NA       | Ups        |
| TCONS_00149085 | 2099   | 1.529670155  | 0.018778976  | 0.290373417 | Ups        |
| TCONS_00264550 | 762    | 2.307646551  | 0.019303069  | NA       | Ups        |
| Gene              | ID     | Start | Stop  | Length | Expression | Change |
|------------------|--------|-------|-------|--------|------------|--------|
| TCONS_00169172   | 483    | 2.619600571 | 0.019413852 | NA     | Ups       |
| TCONS_00360056   | 1171   | 1.882920677 | 0.019978026 | 0.296230201 | Ups    |
| TCONS_00251921   | 3395   | -1.99021061 | 0.020134722 | 0.296230201 | Down   |
| TCONS_00060779   | 340    | 2.844047127 | 0.02014596  | NA     | Ups       |
| TCONS_00006148   | 580    | 2.852324923 | 0.020167076 | NA     | Ups       |
| TCONS_00048955   | 654    | -2.282317575 | 0.020242344 | 0.296230201 | Down   |
| TCONS_00008255   | 743    | 2.808587332 | 0.020307281 | 0.296230201 | Ups    |
| TCONS_00043638   | 4747   | -1.330251042 | 0.020587427 | 0.296230201 | Down   |
| TCONS_00248885   | 1823   | 1.385104601 | 0.021161374 | 0.300317576 | Ups    |
| TCONS_00389665   | 704    | -2.322807292 | 0.021265694 | NA     | Down     |
| TCONS_00014085   | 596    | 1.353269494 | 0.021460553 | 0.300447739 | Ups    |
| TCONS_00140754   | 394    | 1.281671789 | 0.021909093 | 0.302637608 | Ups    |
| TCONS_00411193   | 2730   | -2.722336919 | 0.022057418 | NA     | Down     |
| TCONS_00116933   | 4740   | -2.834106814 | 0.022065099 | NA     | Down     |
| TCONS_00048913   | 272    | 2.274575157 | 0.02224135  | NA     | Ups       |
| TCONS_00361903   | 263    | 1.859249624 | 0.022704335 | 0.305802269 | Ups    |
| TCONS_00375781   | 467    | 1.664998533 | 0.22981921  | 0.305802269 | Ups    |
| TCONS_00117395   | 1295   | 1.471734771 | 0.230237232 | 0.305802269 | Ups    |
| TCONS_00025171   | 271    | 2.022983731 | 0.23791017  | 0.309195863 | Ups    |
| TCONS_00119810   | 13740  | -1.702549453 | 0.23876128  | 0.309195863 | Down   |
| TCONS_00109722   | 419    | -2.174542546 | 0.25721022  | 0.322960875 | Ups    |
| TCONS_00260310   | 30303  | 1.365911534 | 0.252924334 | 0.322960875 | Ups    |
| TCONS_00166059   | 1446   | 1.236656906 | 0.2598988   | 0.322960875 | Ups    |
| TCONS_00374303   | 558    | 2.745376877 | 0.26024273  | NA     | Ups       |
| TCONS_00157090   | 1458   | -2.203264537 | 0.26186017  | 0.322960875 | Down   |
| TCONS_00094490   | 1477   | -2.612019246 | 0.26579092  | NA     | Down     |
| TCONS_00219346   | 3179   | 2.435917798 | 0.26843017  | NA     | Ups       |
| TCONS_00320552   | 2182   | -2.537657825 | 0.27346289  | NA     | Down     |
| TCONS_00272636   | 515    | 2.067761911 | 0.27586475  | 0.336230443 | Ups    |
| TCONS_00218053   | 1947   | -2.393419867 | 0.27681617  | NA     | Down     |
| TCONS_00063221   | 7114   | -2.723702267 | 0.27963328  | NA     | Down     |
| TCONS_00142383   | 1682   | -2.349239348 | 0.28071493  | NA     | Down     |
| TCONS_00335440   | 2825   | -2.725997771 | 0.28093844  | NA     | Down     |
| TCONS_00142840   | 721    | 1.186722523 | 0.28157117  | 0.339195041 | Ups    |
| TCONS_00390160   | 361    | 2.701301705 | 0.28623486  | NA     | Ups       |
| TCONS_00120135   | 486    | -2.545048687 | 0.2865866   | NA     | Down     |
| TCONS_00257954   | 2125   | -1.975660182 | 0.28862036  | 0.339771298 | Down   |
| TCONS_00264987   | 1073   | -1.383435747 | 0.29024951  | 0.339771298 | Down   |
| TCONS_00048910   | 208    | 1.390223441 | 0.29624585  | 0.339771298 | Ups    |
| TCONS_00421124   | 216    | 1.275123166 | 0.29820222  | 0.339771298 | Ups    |
| TCONS_00221988   | 1383   | 1.449351282 | 0.30051729  | 0.339771298 | Ups    |
| TCONS_00091431   | 966    | 2.675445239 | 0.30311143  | NA     | Ups       |
| TCONS_00352129   | 2075   | 1.863056914 | 0.30337675  | 0.339771298 | Ups    |
| TCONS_00195286   | 483    | 1.477334245 | 0.30500705  | 0.339771298 | Ups    |
| TCONS_00111256   | 306    | -1.531256488 | 0.30923051  | 0.340811501 | Down   |
| TCONS_00391439   | 635    | 2.051226513 | 0.31791018  | 0.344109903 | Ups    |
| TCONS_000117176 | 2460 | 1.692315277 | 0.031886811 | 0.344109903 | Ups |
| TCONS_00374352 | 545  | 1.703538032 | 0.032635594 | 0.344109903 | Ups |
| TCONS_00145489 | 1493 | -1.853209988 | 0.032672479 | 0.344109903 | Down |
| TCONS_00222746 | 616  | 1.598461746 | 0.032883089 | 0.344109903 | Ups |
| TCONS_00413294 | 3073 | 1.364648032 | 0.033530713 | 0.345941758 | Ups |
| TCONS_00309937 | 4602 | 1.644755726 | 0.033725982 | 0.345941758 | Ups |
| TCONS_00212108 | 3516 | 1.872032543 | 0.034150826 | 0.346865257 | Ups |
| TCONS_00342259 | 1784 | 2.614951423 | 0.035149448 | NA | Ups |
| TCONS_00185433 | 393  | -2.333919473 | 0.035579204 | 0.355635886 | Down |
| TCONS_00059573 | 1294 | -1.238419105 | 0.036056282 | 0.355635886 | Down |
| TCONS_00227821 | 370  | 1.84123985 | 0.036056641 | 0.355635886 | Ups |
| TCONS_0013819 | 4822 | -1.742316519 | 0.036387455 | 0.355635886 | Down |
| TCONS_00377689 | 528  | 2.275790561 | 0.036864134 | NA | Ups |
| TCONS_00100602 | 563  | -2.594113114 | 0.036864421 | NA | Down |
| TCONS_00379951 | 1572 | -2.469351421 | 0.037362493 | NA | Down |
| TCONS_00003405 | 790  | -2.579697697 | 0.038176609 | NA | Down |
| TCONS_00256567 | 475  | -2.323281688 | 0.038228426 | NA | Down |
| TCONS_00148635 | 258  | 1.199396236 | 0.038288727 | 0.370332095 | Ups |
| TCONS_00002554 | 428  | 2.15238395 | 0.03831879 | NA | Ups |
| TCONS_00113608 | 3609 | -1.240661751 | 0.039173895 | 0.370332095 | Down |
| TCONS_00221322 | 1123 | 1.555673338 | 0.039307017 | 0.370332095 | Ups |
| TCONS_00129120 | 546  | -2.302745782 | 0.039315069 | NA | Down |
| TCONS_00134845 | 546  | -2.302745782 | 0.039315069 | NA | Down |
| TCONS_00115214 | 4227 | 1.57750451 | 0.039320975 | 0.370332095 | Ups |
| TCONS_00277536 | 439  | -2.56501062 | 0.039540087 | NA | Down |
| TCONS_00374191 | 396  | 1.998890059 | 0.039934306 | NA | Ups |
| TCONS_00390986 | 1266 | -1.505985611 | 0.041171157 | 0.381012635 | Down |
| TCONS_00087041 | 781  | 1.374250771 | 0.041914367 | 0.381012635 | Ups |
| TCONS_00316623 | 328  | 1.176377124 | 0.042035029 | 0.381012635 | Ups |
| TCONS_00308930 | 227  | 1.227034656 | 0.042517003 | 0.381012635 | Ups |
| TCONS_00111255 | 328  | -1.519175008 | 0.042808198 | 0.381012635 | Ups |
| TCONS_00113045 | 715  | -1.943847201 | 0.043281875 | 0.381012635 | Down |
| TCONS_00412968 | 675  | -1.273022952 | 0.043318146 | 0.381012635 | Down |
| TCONS_00396952 | 251  | 2.507814282 | 0.043507907 | NA | Ups |
| TCONS_00375628 | 735  | 1.519542043 | 0.043657449 | 0.381012635 | Ups |
| TCONS_00088719 | 1386 | -1.386778949 | 0.043859749 | 0.381012635 | Down |
| TCONS_00311947 | 564  | 1.44298802 | 0.044132738 | 0.381012635 | Ups |
| TCONS_00336036 | 1014 | 2.371306579 | 0.044511399 | NA | Ups |
| TCONS_00116850 | 549  | 2.214763842 | 0.045282864 | NA | Ups |
| TCONS_00213344 | 510  | 2.484136761 | 0.045416812 | NA | Ups |
| TCONS_00407557 | 367  | 2.485855075 | 0.04565448 | NA | Ups |
| TCONS_00199446 | 315  | -2.358089958 | 0.045747342 | NA | Down |
| TCONS_00084828 | 552  | -2.238324019 | 0.045945464 | NA | Down |
| TCONS_00410927 | 1916 | -1.656362357 | 0.04608521 | 0.382363071 | Down |
| TCONS_00046821 | 283  | 1.192122162 | 0.046191768 | 0.382363071 | Ups |
| TCONS_00014855 | 773  | -2.483243217 | 0.046254056 | NA | Down |
| Gene Name | Predicted Number | Predicted Value | Standard Error | Predicted Value of Student T | Fold Change | Significance |
|-----------|------------------|-----------------|----------------|-----------------------------|-------------|--------------|
| TCONS_00410436 | 232 | 1.804162923 | 0.046502396 | 0.382363071 | Ups |
| TCONS_00333608 | 597 | 1.533610863 | 0.046763069 | 0.382363071 | Ups |
| TCONS_00415606 | 329 | 1.207225023 | 0.046814361 | 0.382363071 | Ups |
| TCONS_00335573 | 1370 | -1.477745809 | 0.046872693 | 0.382363071 | Down |
| TCONS_00138996 | 504 | -1.301016658 | 0.047535181 | 0.384737875 | Down |
| TCONS_00216064 | 808 | 1.240899757 | 0.048155885 | 0.385312343 | Ups |
| TCONS_00148636 | 235 | 1.009589527 | 0.048350004 | 0.385312343 | Ups |
| TCONS_00135720 | 296 | 2.241404187 | 0.048778059 | NA | Ups |
| TCONS_00152811 | 589 | 1.470320166 | 0.049085149 | 0.388184846 | Ups |
| TCONS_00146784 | 789 | -2.448673674 | 0.049448242 | NA | Down |
| TCONS_00215116 | 806 | 2.438887785 | 0.049472921 | NA | Ups |