**Supplementary Material**

**Blot 1:**
- Calnexin
- Syntenin
- Flotillin

**Blot 2:**
- Actinin-4
- CD63

Figure S_1D
Supplement to Figure 2 (D): Two-way ANOVA statistical results

Compare cell means regardless of rows and columns

Number of families 1
Number of comparisons per family 28
Alpha 0.05

| Tukey's multiple comparisons test | Mean Diff. | 95.00% CI of diff. | Below threshold? | Summary | Adjusted P Value |
|----------------------------------|------------|--------------------|------------------|---------|-----------------|
| Tyrode's Buffer (control):Hs578T vs. Tyrode's Buffer (control):Hs578Ts(i)8 | 0.000 | -4.465 to 4.465 | No | ns | >0.9999 |
| Tyrode's Buffer (control):Hs578T vs. 250:Hs578T | -88.00 | -92.47 to -83.53 | Yes | **** | <0.0001 |
| Tyrode's Buffer (control):Hs578T vs. 250:Hs578Ts(i)8 | -90.50 | -94.97 to -86.03 | Yes | **** | <0.0001 |
| Tyrode's Buffer (control):Hs578T vs. 500:Hs578T | -91.00 | -95.47 to -86.53 | Yes | **** | <0.0001 |
| Tyrode's Buffer (control):Hs578T vs. 500:Hs578Ts(i)8 | -89.75 | -94.22 to -85.28 | Yes | **** | <0.0001 |
| Tyrode's Buffer (control):Hs578T vs. 1000:Hs578T | -93.75 | -98.22 to -89.28 | Yes | **** | <0.0001 |
| Control                  | Test             | Mean    | CI       | Statistic | P-Value |
|-------------------------|------------------|---------|----------|-----------|---------|
| Tyrode's Buffer         | Hs578T vs.      | -91.25  | -95.72 to -86.78 | Yes       | ****    |
| (control):Hs578Ts(i)8   | 1000:Hs578Ts(i)8 |         |          | <0.0001   |         |
|                         | Hs578T vs.      | -88.00  | -92.47 to -83.53 | Yes       | ****    |
|                         | 250:Hs578T      |         |          | <0.0001   |         |
|                         | Hs578Ts(i)8     | -90.50  | -94.97 to -86.03 | Yes       | ****    |
|                         | vs. 250:Hs578T  |         |          | <0.0001   |         |
|                         | Hs578Ts(i)8     | -91.00  | -95.47 to -86.53 | Yes       | ****    |
|                         | vs. 500:Hs578T  |         |          | <0.0001   |         |
|                         | Hs578Ts(i)8     | -89.75  | -94.22 to -85.28 | Yes       | ****    |
|                         | vs. 500:Hs578Ts(i)8 |     |          | <0.0001   |         |
|                         | Hs578Ts(i)8     | -93.75  | -98.22 to -89.28 | Yes       | ****    |
|                         | vs. 1000:Hs578T |         |          | <0.0001   |         |
|                         | Hs578Ts(i)8     | -91.25  | -95.72 to -86.78 | Yes       | ****    |
|                         | vs. 1000:Hs578Ts(i)8 |     |          | <0.0001   |         |
|                         | 250:Hs578T vs.  | -2.500  | -6.965 to 1.965 | No        | ns      | 0.5922 |
|                         | 250:Hs578Ts(i)8 |         |          |           |         |         |
|                         | 250:Hs578T vs.  | -3.000  | -7.465 to 1.465 | No        | ns      | 0.3724 |
|                         | 500:Hs578T      |         |          |           |         |         |
|                         | 250:Hs578T vs.  | -1.750  | -6.215 to 2.715 | No        | ns      | 0.8908 |
|                         | 500:Hs578Ts(i)8 |         |          |           |         |         |
|                         | 250:Hs578T vs.  | -5.750  | -10.22 to -1.285 | Yes       | **      | 0.0056 |
|                         | 1000:Hs578T     |         |          |           |         |         |
|                         | 250:Hs578T vs.  | -3.250  | -7.715 to 1.215 | No        | ns      | 0.2808 |
|                         | 1000:Hs578Ts(i)8|         |          |           |         |         |
|                         | 250:Hs578Ts(i)8 | -0.5000 | -4.965 to 3.965 | No        | ns      | >0.9999|
|                         | vs. 500:Hs578T  |         |          |           |         |         |
|                         | 250:Hs578Ts(i)8 | 0.7500  | -3.715 to 5.215 | No        | ns      | 0.9991 |
| Test | Mean 1 | Mean 2 | Mean Diff. | SE of diff. | N1 | N2 | q | DF |
|------|--------|--------|------------|-------------|----|----|---|----|
| Tyrode's Buffer (control):Hs578T vs. Tyrode's Buffer (control):Hs578Ts(i)8 | 0.000 | 0.000 | 0.000 | 1.348 | 4 | 4 | 0.000 | 24.00 |
| Tyrode's Buffer (control):Hs578T vs. 250:Hs578T | 0.000 | 88.00 | -88.00 | 1.348 | 4 | 4 | 92.31 | 24.00 |
| Tyrode's Buffer (control):Hs578T vs. 250:Hs578Ts(i)8 | 0.000 | 90.50 | -90.50 | 1.348 | 4 | 4 | 94.93 | 24.00 |
| Tyrode's Buffer (control):Hs578T vs. 500:Hs578T | 0.000 | 91.00 | -91.00 | 1.348 | 4 | 4 | 95.45 | 24.00 |
| Tyrode's Buffer (control):Hs578T vs. 500:Hs578Ts(i)8 | 0.000 | 89.75 | -89.75 | 1.348 | 4 | 4 | 94.14 | 24.00 |
|                          |               |       |        |     |     |      |      |
|--------------------------|---------------|-------|--------|-----|-----|------|------|
| Tyrode's Buffer (control):Hs578T vs. 1000:Hs578T       | 0.000          | 93.75 | -93.75 | 1.348 | 4   | 4    | 98.34 | 24.00 |
| Tyrode's Buffer (control):Hs578T vs. 1000:Hs578Ts(i)8 | 0.000          | 91.25 | -91.25 | 1.348 | 4   | 4    | 95.72 | 24.00 |
| Tyrode's Buffer (control):Hs578Ts(i)8 vs. 250:Hs578T   | 0.000          | 88.00 | -88.00 | 1.348 | 4   | 4    | 92.31 | 24.00 |
| Tyrode's Buffer (control):Hs578Ts(i)8 vs. 250:Hs578Ts(i)8 | 0.000          | 90.50 | -90.50 | 1.348 | 4   | 4    | 94.93 | 24.00 |
| Tyrode's Buffer (control):Hs578Ts(i)8 vs. 500:Hs578T    | 0.000          | 91.00 | -91.00 | 1.348 | 4   | 4    | 95.45 | 24.00 |
| Tyrode's Buffer (control):Hs578Ts(i)8 vs. 500:Hs578Ts(i)8 | 0.000          | 89.75 | -89.75 | 1.348 | 4   | 4    | 94.14 | 24.00 |
| Tyrode's Buffer (control):Hs578Ts(i)8 vs. 1000:Hs578T   | 0.000          | 93.75 | -93.75 | 1.348 | 4   | 4    | 98.34 | 24.00 |
| Tyrode's Buffer (control):Hs578Ts(i)8 vs. 1000:Hs578Ts(i)8 | 0.000          | 91.25 | -91.25 | 1.348 | 4   | 4    | 95.72 | 24.00 |
| 250:Hs578T vs. 250:Hs578Ts(i)8                         | 88.00          | 90.50 | -2.500 | 1.348 | 4   | 4    | 2.622 | 24.00 |
| 250:Hs578T vs. 500:Hs578T                               | 88.00          | 91.00 | -3.000 | 1.348 | 4   | 4    | 3.147 | 24.00 |
| 250:Hs578T vs. 500:Hs578Ts(i)8                          | 88.00          | 89.75 | -1.750 | 1.348 | 4   | 4    | 1.836 | 24.00 |
| 250:Hs578T vs. 1000:Hs578T                              | 88.00          | 93.75 | -5.750 | 1.348 | 4   | 4    | 6.031 | 24.00 |
| 250:Hs578T vs. 1000:Hs578Ts(i)8                         | 88.00          | 91.25 | -3.250 | 1.348 | 4   | 4    | 3.409 | 24.00 |
| 250:Hs578Ts(i)8 vs. 500:Hs578T                          | 90.50          | 91.00 | -0.5000 | 1.348 | 4   | 4    | 0.5245 | 24.00 |
| Comparison                                      | Value1 | Value2 | Difference | Value3 | Value4 | Value5 | Value6 |
|-----------------------------------------------|--------|--------|------------|--------|--------|--------|--------|
| 250:Hs578Ts(i)8 vs. 500:Hs578Ts(i)8           | 90.50  | 89.75  | 0.7500     | 1.348  | 4      | 4      | 0.7867 | 24.00 |
| 250:Hs578Ts(i)8 vs. 1000:Hs578T               | 90.50  | 93.75  | -3.250     | 1.348  | 4      | 4      | 3.409  | 24.00 |
| 500:Hs578T vs. 500:Hs578Ts(i)8                | 91.00  | 89.75  | 1.250      | 1.348  | 4      | 4      | 1.311  | 24.00 |
| 500:Hs578T vs. 1000:Hs578T                    | 91.00  | 93.75  | -2.750     | 1.348  | 4      | 4      | 2.885  | 24.00 |
| 500:Hs578T vs. 1000:Hs578Ts(i)8               | 91.00  | 91.25  | 0.250      | 1.348  | 4      | 4      | 0.2622 | 24.00 |
| 500:Hs578Ts(i)8 vs. 1000:Hs578T               | 89.75  | 93.75  | -4.000     | 1.348  | 4      | 4      | 4.196  | 24.00 |
| 500:Hs578Ts(i)8 vs. 1000:Hs578Ts(i)8          | 89.75  | 91.25  | -1.500     | 1.348  | 4      | 4      | 1.573  | 24.00 |
| 1000:Hs578T vs. 1000:Hs578Ts(i)8              | 93.75  | 91.25  | 2.500      | 1.348  | 4      | 4      | 2.622  | 24.00 |
Supplement to Figure 3 (D): Two-way ANOVA statistical results

Compare cell means regardless of rows and columns

Number of families 1
Number of comparisons per family 231
Alpha 0.05

| Tukey's multiple comparisons test | Mean Diff. | 95.00% CI of diff. | Below threshold? | Summary | Adjusted P Value |
|----------------------------------|------------|--------------------|------------------|---------|-----------------|
| Control (PBS): Hs578T vs. Control (PBS):Hs578Ts(i)8 | 0.000 | -357.0 to 357.0 | No | ns | >0.9999 |
| Control (PBS): Hs578T vs. 2.2x107: Hs578T | 671.8 | 314.8 to 1029 | Yes | **** | <0.0001 |
| Control (PBS): Hs578T vs. 2.2x107:Hs578Ts(i)8 | 532.5 | 175.5 to 889.5 | Yes | **** | <0.0001 |
| Control (PBS): Hs578T vs. 4.5x107: Hs578T | 932.0 | 575.0 to 1289 | Yes | **** | <0.0001 |
| Control (PBS): Hs578T vs. 4.5x107:Hs578Ts(i)8 | 788.0 | 431.0 to 1145 | Yes | **** | <0.0001 |
| Control (PBS): Hs578T vs. 1.1x108: Hs578T | 1116 | 758.5 to 1472 | Yes | **** | <0.0001 |
| Control (PBS): Hs578T vs. 1.1x108:Hs578Ts(i)8 | 1085 | 728.3 to 1442 | Yes | **** | <0.0001 |
| Control (PBS): Hs578T vs. 2.2x108: Hs578T | 1275 | 917.8 to 1632 | Yes | **** | <0.0001 |
| Control (PBS): Hs578T vs. 2.2x108:Hs578Ts(i)8 | 1261 | 904.3 to 1618 | Yes | **** | <0.0001 |
| Comparison | Mean 1 (Experiment) | Mean 2 (Experiment) | p-value | Significance |
|------------|---------------------|---------------------|---------|--------------|
| Control (PBS): Hs578T vs. 4.4x10^8: Hs578T | 1485 | 1128 to 1842 | Yes | **** | <0.0001 |
| Control (PBS): Hs578T vs. 4.4x10^8:Hs578Ts(i)8 | 1369 | 1012 to 1725 | Yes | **** | <0.0001 |
| Control (PBS): Hs578T vs. 11.1x10^8: Hs578T | 1547 | 1190 to 1904 | Yes | **** | <0.0001 |
| Control (PBS): Hs578T vs. 11.1x10^8:Hs578Ts(i)8 | 1498 | 1141 to 1854 | Yes | **** | <0.0001 |
| Control (PBS): Hs578T vs. 22.3x10^8: Hs578T | 1564 | 1207 to 1921 | Yes | **** | <0.0001 |
| Control (PBS): Hs578T vs. 22.3x10^8:Hs578Ts(i)8 | 1560 | 1203 to 1917 | Yes | **** | <0.0001 |
| Control (PBS): Hs578T vs. 4.5x10^9: Hs578T | 1591 | 1234 to 1948 | Yes | **** | <0.0001 |
| Control (PBS): Hs578T vs. 4.5x10^9:Hs578Ts(i)8 | 1594 | 1237 to 1950 | Yes | **** | <0.0001 |
| Control (PBS): Hs578T vs. 6.7x10^9: Hs578T | 1608 | 1251 to 1965 | Yes | **** | <0.0001 |
| Control (PBS): Hs578T vs. 6.7x10^9:Hs578Ts(i)8 | 1625 | 1268 to 1982 | Yes | **** | <0.0001 |
| Control (PBS): Hs578T vs. 8.9x10^9: Hs578T | 1622 | 1265 to 1979 | Yes | **** | <0.0001 |
| Control (PBS): Hs578T vs. 8.9x10^9:Hs578Ts(i)8 | 1676 | 1319 to 2032 | Yes | **** | <0.0001 |
| Control (PBS):Hs578Ts(i)8 vs. 2.2x10^7: Hs578T | 671.8 | 314.8 to 1029 | Yes | **** | <0.0001 |
| Control (PBS):Hs578Ts(i)8 vs. 2.2x10^7:Hs578Ts(i)8 | 532.5 | 175.5 to 889.5 | Yes | **** | <0.0001 |
| Control (PBS):Hs578Ts(i)8 vs. 4.5x10^7: Hs578T | 932.0 | 575.0 to 1289 | Yes | **** | <0.0001 |
| Comparison | Mean | 95% CI | p value | Statistically Significant? |
|------------|------|--------|---------|---------------------------|
| Control (PBS): Hs578Ts(i)8 vs. 4.5x10^7: Hs578Ts(i)8 | 788.0 | 431.0 to 1145 | Yes | **** | <0.0001 |
| Control (PBS): Hs578Ts(i)8 vs. 1.1x10^8: Hs578T | 1116 | 758.5 to 1472 | Yes | **** | <0.0001 |
| Control (PBS): Hs578Ts(i)8 vs. 1.1x10^8: Hs578Ts(i)8 | 1085 | 728.3 to 1442 | Yes | **** | <0.0001 |
| Control (PBS): Hs578Ts(i)8 vs. 2.2x10^8: Hs578T | 1275 | 917.8 to 1632 | Yes | **** | <0.0001 |
| Control (PBS): Hs578Ts(i)8 vs. 2.2x10^8: Hs578Ts(i)8 | 1261 | 904.3 to 1618 | Yes | **** | <0.0001 |
| Control (PBS): Hs578Ts(i)8 vs. 4.4x10^8: Hs578T | 1485 | 1128 to 1842 | Yes | **** | <0.0001 |
| Control (PBS): Hs578Ts(i)8 vs. 4.4x10^8: Hs578Ts(i)8 | 1369 | 1012 to 1725 | Yes | **** | <0.0001 |
| Control (PBS): Hs578Ts(i)8 vs. 11.1x10^8: Hs578T | 1547 | 1190 to 1904 | Yes | **** | <0.0001 |
| Control (PBS): Hs578Ts(i)8 vs. 11.1x10^8: Hs578Ts(i)8 | 1498 | 1141 to 1854 | Yes | **** | <0.0001 |
| Control (PBS): Hs578Ts(i)8 vs. 22.3x10^8: Hs578T | 1564 | 1207 to 1921 | Yes | **** | <0.0001 |
| Control (PBS): Hs578Ts(i)8 vs. 22.3x10^8: Hs578Ts(i)8 | 1560 | 1203 to 1917 | Yes | **** | <0.0001 |
| Control (PBS): Hs578Ts(i)8 vs. 4.5x10^9: Hs578T | 1591 | 1234 to 1948 | Yes | **** | <0.0001 |
| Control (PBS):Hs578Ts(i)8 vs. 4.5x10^9:Hs578Ts(i)8 | 1594 | 1237 to 1950 | Yes | **** | <0.0001 |
| Control (PBS):Hs578Ts(i)8 vs. 6.7x10^9: Hs578T | 1608 | 1251 to 1965 | Yes | **** | <0.0001 |
| Control (PBS):Hs578Ts(i)8 vs. 6.7x10^9:Hs578Ts(i)8 | 1625 | 1268 to 1982 | Yes | **** | <0.0001 |
| Control (PBS):Hs578Ts(i)8 vs. 8.9x10^9: Hs578T | 1622 | 1265 to 1979 | Yes | **** | <0.0001 |
| Control (PBS):Hs578Ts(i)8 vs. 8.9x10^9:Hs578Ts(i)8 | 1676 | 1319 to 2032 | Yes | **** | <0.0001 |
| 2.2x10^7: Hs578T vs. 2.2x10^7:Hs578Ts(i)8 | -139.3 | -496.2 to 217.7 | No | ns | 0.9970 |
| 2.2x10^7: Hs578T vs. 4.5x10^7: Hs578T | 260.3 | -96.74 to 617.2 | No | ns | 0.4663 |
| 2.2x10^7: Hs578T vs. 4.5x10^7:Hs578Ts(i)8 | 116.3 | -240.7 to 473.2 | No | ns | 0.9998 |
| 2.2x10^7: Hs578T vs. 1.1x10^8: Hs578T | 443.8 | 86.76 to 800.7 | Yes | ** | 0.0029 |
| 2.2x10^7: Hs578T vs. 1.1x10^8:Hs578Ts(i)8 | 413.5 | 56.51 to 770.5 | Yes | ** | 0.0083 |
| 2.2x10^7: Hs578T vs. 2.2x10^8: Hs578T | 603.0 | 246.0 to 960.0 | Yes | **** | <0.0001 |
| 2.2x10^7: Hs578T vs. 2.2x10^8:Hs578Ts(i)8 | 589.5 | 232.5 to 946.5 | Yes | **** | <0.0001 |
| 2.2x10^7: Hs578T vs. 4.4x10^8: Hs578T | 813.3 | 456.3 to 1170 | Yes | **** | <0.0001 |
| 2.2x10^7: Hs578T vs. 4.4x10^8:Hs578Ts(i)8 | 696.8 | 339.8 to 1054 | Yes | **** | <0.0001 |
| 2.2x10^7: Hs578T vs. 11.1x10^8: Hs578T | 875.5 | 518.5 to 1232 | Yes | **** | <0.0001 |
| Comparison                          | Value 1 | Value 2       | Significance | p-Value  |
|------------------------------------|---------|---------------|--------------|----------|
| 2.2x10^7: Hs578T vs. 11.1x10^8: Hs578Ts(i)8 | 825.8   | 468.8 to 1183 | Yes          | ****     | <0.0001  |
| 2.2x10^7: Hs578T vs. 22.3x10^8: Hs578T | 892.3   | 535.3 to 1249 | Yes          | ****     | <0.0001  |
| 2.2x10^7: Hs578T vs. 22.3x10^8: Hs578Ts(i)8 | 888.0   | 531.0 to 1245 | Yes          | ****     | <0.0001  |
| 2.2x10^7: Hs578T vs. 4.5x10^9: Hs578T | 919.5   | 562.5 to 1276 | Yes          | ****     | <0.0001  |
| 2.2x10^7: Hs578T vs. 4.5x10^9: Hs578Ts(i)8 | 921.8   | 564.8 to 1279 | Yes          | ****     | <0.0001  |
| 2.2x10^7: Hs578T vs. 6.7x10^9: Hs578T | 936.5   | 579.5 to 1293 | Yes          | ****     | <0.0001  |
| 2.2x10^7: Hs578T vs. 6.7x10^9: Hs578Ts(i)8 | 953.3   | 596.3 to 1310 | Yes          | ****     | <0.0001  |
| 2.2x10^7: Hs578T vs. 8.9x10^9: Hs578T | 950.0   | 593.0 to 1307 | Yes          | ****     | <0.0001  |
| 2.2x10^7: Hs578T vs. 8.9x10^9: Hs578Ts(i)8 | 1004    | 646.8 to 1361 | Yes          | ****     | <0.0001  |
| 2.2x10^7: Hs578Ts(i)8 vs. 4.5x10^7: Hs578T | 399.5   | 42.51 to 756.5 | Yes          | *        | 0.0133   |
| 2.2x10^7: Hs578Ts(i)8 vs. 4.5x10^7: Hs578Ts(i)8 | 255.5   | -101.5 to 612.5 | No          | ns       | 0.5017   |
| 2.2x10^7: Hs578Ts(i)8 vs. 1.1x10^8: Hs578T | 583.0   | 226.0 to 940.0 | Yes          | ****     | <0.0001  |
| 2.2x10^7: Hs578Ts(i)8 vs. 1.1x10^8: Hs578Ts(i)8 | 552.8   | 195.8 to 909.7 | Yes          | ****     | <0.0001  |
| 2.2x10^7: Hs578Ts(i)8 vs. 2.2x10^8: Hs578T | 742.3   | 385.3 to 1099 | Yes          | ****     | <0.0001  |
| 2.2x10^7: Hs578Ts(i)8 vs. 2.2x10^8: Hs578Ts(i)8 | 728.8   | 371.8 to 1086 | Yes          | ****     | <0.0001  |
| 2.2x10^7: Hs578Ts(i)8 vs. 4.4x10^8: Hs578T | 952.5   | 595.5 to 1309 | Yes          | ****     | <0.0001  |
| 2.2x10^7: Hs578Ts(i)8 vs. 4.4x10^8: Hs578Ts(i)8 | 836.0   | 479.0 to 1193 | Yes          | ****     | <0.0001  |
| 2.2x10^7: Hs578Ts(i)8 vs. 11.1x10^8: Hs578T | 1015    | 657.8 to 1372 | Yes          | ****     | <0.0001  |
| Comparison                        | p-value | Significance |
|----------------------------------|---------|--------------|
| 2.2x10^7:Hs578Ts(i)8 vs. 11.1x10^8:Hs578Ts(i)8 | 965.0   | Yes          |
| 2.2x10^7:Hs578Ts(i)8 vs. 22.3x10^8:Hs578T     | 1032    | Yes          |
| 2.2x10^7:Hs578Ts(i)8 vs. 22.3x10^8:Hs578Ts(i)8 | 1027    | Yes          |
| 2.2x10^7:Hs578Ts(i)8 vs. 4.5x10^9:Hs578T      | 1059    | Yes          |
| 2.2x10^7:Hs578Ts(i)8 vs. 4.5x10^9:Hs578Ts(i)8 | 1061    | Yes          |
| 2.2x10^7:Hs578Ts(i)8 vs. 6.7x10^9:Hs578T      | 1076    | Yes          |
| 2.2x10^7:Hs578Ts(i)8 vs. 6.7x10^9:Hs578Ts(i)8 | 1093    | Yes          |
| 2.2x10^7:Hs578Ts(i)8 vs. 8.9x10^9:Hs578T      | 1089    | Yes          |
| 2.2x10^7:Hs578Ts(i)8 vs. 8.9x10^9:Hs578Ts(i)8 | 1143    | Yes          |
| 4.5x10^7:Hs578T vs. 4.5x10^7:Hs578Ts(i)8     | -144.0  | No           |
| 4.5x10^7:Hs578T vs. 4.5x10^7:Hs578Ts(i)8     | 183.5   | No           |
| 4.5x10^7:Hs578T vs. 1.1x10^8:Hs578T           | 153.3   | No           |
| 4.5x10^7:Hs578T vs. 2.2x10^8:Hs578T           | 342.8   | No           |
| 4.5x10^7:Hs578T vs. 2.2x10^8:Hs578Ts(i)8     | 329.3   | No           |
| 4.5x10^7:Hs578T vs. 4.4x10^8:Hs578T           | 553.0   | Yes          |
| 4.5x10^7:Hs578T vs. 4.4x10^8:Hs578Ts(i)8     | 436.5   | Yes          |
| 4.5x10^7:Hs578T vs. 11.1x10^8:Hs578T          | 615.3   | Yes          |
| Comparison                                                      | Median | CI      | Result | P-value |
|---------------------------------------------------------------|--------|---------|--------|---------|
| 4.5x10^7: Hs578T vs. 11.1x10^8:Hs578T (i)8                   | 565.5  | 208.5 to 922.5 | Yes    | ****    |
| 4.5x10^7: Hs578T vs. 22.3x10^8: Hs578T                       | 632.0  | 275.0 to 989.0 | Yes    | ****    |
| 4.5x10^7: Hs578T vs. 22.3x10^8:Hs578T (i)8                  | 627.8  | 270.8 to 984.7 | Yes    | ****    |
| 4.5x10^7: Hs578T vs. 4.5x10^9: Hs578T                        | 659.3  | 302.3 to 1016  | Yes    | ****    |
| 4.5x10^7: Hs578T vs. 4.5x10^9:Hs578T (i)8                   | 661.5  | 304.5 to 1018  | Yes    | ****    |
| 4.5x10^7: Hs578T vs. 4.5x10^9:Hs578T (i)8                   | 676.3  | 319.3 to 1033  | Yes    | ****    |
| 4.5x10^7: Hs578T vs. 6.7x10^9: Hs578T                        | 693.0  | 336.0 to 1050  | Yes    | ****    |
| 4.5x10^7: Hs578T vs. 6.7x10^9:Hs578T (i)8                   | 689.8  | 332.8 to 1047  | Yes    | ****    |
| 4.5x10^7: Hs578T vs. 8.9x10^9: Hs578T                        | 743.5  | 386.5 to 1100  | Yes    | ****    |
| 4.5x10^7: Hs578T vs. 8.9x10^9:Hs578T (i)8                   | 327.5  | -29.49 to 684.5| No     | ns      | 0.1128  |
| 4.5x10^7: Hs578T vs. 1.1x10^8: Hs578T                        | 297.3  | -59.74 to 654.2| No     | ns      | 0.2321  |
| 4.5x10^7: Hs578T vs. 1.1x10^8:Hs578T (i)8                   | 486.8  | 129.8 to 843.7 | Yes    | ***     | 0.0006  |
| 4.5x10^7: Hs578T vs. 2.2x10^8: Hs578T                        | 473.3  | 116.3 to 830.2 | Yes    | ***     | 0.0010  |
| 4.5x10^7: Hs578T vs. 2.2x10^8:Hs578T (i)8                   | 697.0  | 340.0 to 1054  | Yes    | ****    | <0.0001 |
| 4.5x10^7: Hs578T vs. 4.4x10^8: Hs578T                        | 580.5  | 223.5 to 937.5 | Yes    | ****    | <0.0001 |
| 4.5x10^7: Hs578T vs. 4.4x10^8:Hs578T (i)8                   | 759.3  | 402.3 to 1116  | Yes    | ****    | <0.0001 |
| 4.5x10^7: Hs578T vs. 11.1x10^8: Hs578T                       | 709.5  | 352.5 to 1066  | Yes    | ****    | <0.0001 |

**Note:** The comparisons are made between different concentrations of Hs578T and its isogenic strain (Hs578T (i)8) under specified conditions. The results indicate statistical significance levels: *** < 0.001, **** < 0.0001, ns = not significant.
|        |       |       |       |       |       |       |
|--------|-------|-------|-------|-------|-------|-------|
| 4.5x10^7: Hs578Ts(i)8 vs. 2.2x10^8: Hs578T | 776.0 | 419.0 to 1133 | Yes | **** | <0.0001 |
| 4.5x10^7: Hs578Ts(i)8 vs. 2.2x10^8: Hs578Ts(i)8 | 771.8 | 414.0 to 1129 | Yes | **** | <0.0001 |
| 4.5x10^7: Hs578Ts(i)8 vs. 4.5x10^9: Hs578T | 803.3 | 446.3 to 1160 | Yes | **** | <0.0001 |
| 4.5x10^7: Hs578Ts(i)8 vs. 4.5x10^9: Hs578Ts(i)8 | 805.5 | 448.5 to 1162 | Yes | **** | <0.0001 |
| 4.5x10^7: Hs578Ts(i)8 vs. 6.7x10^9: Hs578T | 820.3 | 463.3 to 1177 | Yes | **** | <0.0001 |
| 4.5x10^7: Hs578Ts(i)8 vs. 6.7x10^9: Hs578Ts(i)8 | 837.0 | 480.0 to 1194 | Yes | **** | <0.0001 |
| 4.5x10^7: Hs578Ts(i)8 vs. 8.9x10^9: Hs578T | 833.8 | 476.8 to 1191 | Yes | **** | <0.0001 |
| 4.5x10^7: Hs578Ts(i)8 vs. 8.9x10^9: Hs578Ts(i)8 | 887.5 | 530.5 to 1244 | Yes | **** | <0.0001 |
| 1.1x10^8: Hs578T vs. 1.1x10^8: Hs578Ts(i)8 | -30.25 | -387.2 to 326.7 | No | ns | >0.9999 |
| 1.1x10^8: Hs578T vs. 2.2x10^8: Hs578T | 159.3 | -197.7 to 516.2 | No | ns | 0.9852 |
| 1.1x10^8: Hs578T vs. 2.2x10^8: Hs578Ts(i)8 | 145.8 | -211.2 to 502.7 | No | ns | 0.9947 |
| 1.1x10^8: Hs578T vs. 4.4x10^8: Hs578T | 369.5 | 12.51 to 726.5 | Yes | * | 0.0344 |
| 1.1x10^8: Hs578T vs. 4.4x10^8: Hs578Ts(i)8 | 253.0 | -104.0 to 610.0 | No | ns | 0.5205 |
| 1.1x10^8: Hs578T vs. 11.1x10^8: Hs578T | 431.8 | 74.76 to 788.7 | Yes | ** | 0.0044 |
| 1.1x10^8: Hs578T vs. 11.1x10^8: Hs578Ts(i)8 | 382.0 | 25.01 to 739.0 | Yes | * | 0.0234 |
| 1.1x10^8: Hs578T vs. 22.3x10^8: Hs578T | 448.5 | 91.51 to 805.5 | Yes | ** | 0.0024 |
| 1.1x10^8: Hs578T vs. 22.3x10^8: Hs578Ts(i)8 | 444.3 | 87.26 to 801.2 | Yes | ** | 0.0028 |
|                    |      |            |     |     |        |        |        |        |        |        |        |
|--------------------|------|------------|-----|-----|--------|--------|--------|--------|--------|--------|--------|
| 1.1x10^8: Hs578T vs. 4.5x10^9: Hs578T | 475.8 | 118.8 to 832.7 | Yes | *** | 0.0009 |
| 1.1x10^8: Hs578T vs. 4.5x10^9: Hs578Ts(i)8 | 478.0 | 121.0 to 835.0 | Yes | *** | 0.0008 |
| 1.1x10^8: Hs578T vs. 6.7x10^9: Hs578T | 492.8 | 135.8 to 849.7 | Yes | *** | 0.0005 |
| 1.1x10^8: Hs578T vs. 6.7x10^9: Hs578Ts(i)8 | 509.5 | 152.5 to 866.5 | Yes | *** | 0.0002 |
| 1.1x10^8: Hs578T vs. 8.9x10^9: Hs578T | 506.3 | 149.3 to 863.2 | Yes | *** | 0.0003 |
| 1.1x10^8: Hs578T vs. 8.9x10^9: Hs578Ts(i)8 | 560.0 | 203.0 to 917.0 | Yes | **** | <0.0001 |
| 1.1x10^8: Hs578Ts(i)8 vs. 2.2x10^8: Hs578T | 189.5 | -167.5 to 546.5 | No | ns | 0.9196 |
| 1.1x10^8: Hs578Ts(i)8 vs. 2.2x10^8: Hs578Ts(i)8 | 176.0 | -181.0 to 533.0 | No | ns | 0.9587 |
| 1.1x10^8: Hs578Ts(i)8 vs. 4.4x10^8: Hs578T | 399.8 | 42.76 to 756.7 | Yes | * | 0.0132 |
| 1.1x10^8: Hs578Ts(i)8 vs. 4.4x10^8: Hs578Ts(i)8 | 283.3 | -73.74 to 640.2 | No | ns | 0.3101 |
| 1.1x10^8: Hs578Ts(i)8 vs. 11.1x10^8: Hs578T | 462.0 | 105.0 to 819.0 | Yes | ** | 0.0015 |
| 1.1x10^8: Hs578Ts(i)8 vs. 11.1x10^8: Hs578Ts(i)8 | 412.3 | 55.26 to 769.2 | Yes | ** | 0.0087 |
| 1.1x10^8: Hs578Ts(i)8 vs. 22.3x10^8: Hs578T | 478.8 | 121.8 to 835.7 | Yes | *** | 0.0008 |
| 1.1x10^8: Hs578Ts(i)8 vs. 22.3x10^8: Hs578Ts(i)8 | 474.5 | 117.5 to 831.5 | Yes | *** | 0.0009 |
| 1.1x10^8: Hs578Ts(i)8 vs. 4.5x10^9: Hs578T | 506.0 | 149.0 to 863.0 | Yes | *** | 0.0003 |
| 1.1x10^8: Hs578Ts(i)8 vs. 4.5x10^9: Hs578Ts(i)8 | 508.3 | 151.3 to 865.2 | Yes | *** | 0.0003 |
| 1.1x10^8: Hs578Ts(i)8 vs. 6.7x10^9: Hs578T | 523.0 | 166.0 to 880.0 | Yes | *** | 0.0001 |
| Comparison                        | log_{10}(C) (Mean) | log_{10}(C) (Range) | Statistical Significance | p-value |
|----------------------------------|--------------------|---------------------|--------------------------|---------|
| 1.1x10^8: Hs578Ts(i)8 vs. 6.7x10^9: Hs578Ts(i)8 | 539.8              | 182.8 to 896.7      | Yes                       | ****    | <0.0001 |
| 1.1x10^8: Hs578Ts(i)8 vs. 8.9x10^9: Hs578T     | 536.5              | 179.5 to 893.5      | Yes                       | ****    | <0.0001 |
| 1.1x10^8: Hs578Ts(i)8 vs. 8.9x10^9: Hs578Ts(i)8 | 590.3              | 233.3 to 947.2      | Yes                       | ****    | <0.0001 |
| 2.2x10^8: Hs578T vs. 2.2x10^8: Hs578Ts(i)8    | -13.50             | -370.5 to 343.5     | No                        | ns      | >0.9999 |
| 2.2x10^8: Hs578T vs. 4.4x10^8: Hs578T          | 210.3              | -146.7 to 567.2     | No                        | ns      | 0.8226  |
| 2.2x10^8: Hs578T vs. 4.4x10^8: Hs578Ts(i)8    | 93.75              | -263.2 to 450.7     | No                        | ns      | >0.9999 |
| 2.2x10^8: Hs578T vs. 11.1x10^8: Hs578T         | 272.5              | -84.49 to 629.5     | No                        | ns      | 0.3794  |
| 2.2x10^8: Hs578T vs. 11.1x10^8: Hs578Ts(i)8   | 222.8              | -134.2 to 579.7     | No                        | ns      | 0.7441  |
| 2.2x10^8: Hs578T vs. 22.3x10^8: Hs578T         | 289.3              | -67.74 to 646.2     | No                        | ns      | 0.2749  |
| 2.2x10^8: Hs578T vs. 22.3x10^8: Hs578Ts(i)8   | 285.0              | -71.99 to 642.0     | No                        | ns      | 0.2996  |
| 2.2x10^8: Hs578T vs. 4.5x10^9: Hs578T          | 316.5              | -40.49 to 673.5     | No                        | ns      | 0.1487  |
| 2.2x10^8: Hs578T vs. 4.5x10^9: Hs578Ts(i)8    | 318.8              | -38.24 to 675.7     | No                        | ns      | 0.1407  |
| 2.2x10^8: Hs578T vs. 6.7x10^9: Hs578T          | 333.5              | -23.49 to 690.5     | No                        | ns      | 0.0963  |
| 2.2x10^8: Hs578T vs. 6.7x10^9: Hs578Ts(i)8    | 350.3              | -6.740 to 707.2     | No                        | ns      | 0.0607  |
| 2.2x10^8: Hs578T vs. 8.9x10^9: Hs578T          | 347.0              | -9.990 to 704.0     | No                        | ns      | 0.0666  |
| 2.2x10^8: Hs578T vs. 8.9x10^9: Hs578Ts(i)8    | 400.8              | 43.76 to 757.7      | Yes                       | *       | 0.0127  |
| 2.2x10^8: Hs578Ts(i)8 vs. 4.4x10^8: Hs578Ts(i)8 | 223.8              | -133.2 to 580.7     | No                        | ns      | 0.7372  |
| 2.2x10^8: Hs578Ts(i)8 vs. 4.4x10^8: Hs578T     | 107.3              | -249.7 to 464.2     | No                        | ns      | >0.9999 |
| Comparison                          | Mean | 95% CI      | Outcome | p-value |
|------------------------------------|------|-------------|---------|---------|
| 2.2x10^8:Hs578Ts(i)8 vs. 11.1x10^8: Hs578T | 286.0 | -70.99 to 643.0 | No   | ns 0.2937 |
| 2.2x10^8:Hs578Ts(i)8 vs. 11.1x10^8: Hs578Ts(i)8 | 236.3 | -120.7 to 593.2 | No   | ns 0.6474 |
| 2.2x10^8:Hs578Ts(i)8 vs. 22.3x10^8: Hs578T | 302.8 | -54.24 to 659.7 | No   | ns 0.2055 |
| 2.2x10^8:Hs578Ts(i)8 vs. 22.3x10^8: Hs578Ts(i)8 | 298.5 | -58.49 to 655.5 | No   | ns 0.2259 |
| 2.2x10^8:Hs578Ts(i)8 vs. 4.5x10^9: Hs578T | 330.0 | -26.99 to 687.0 | No   | ns 0.1057 |
| 2.2x10^8:Hs578Ts(i)8 vs. 4.5x10^9: Hs578Ts(i)8 | 332.3 | -24.74 to 689.2 | No   | ns 0.0996 |
| 2.2x10^8:Hs578Ts(i)8 vs. 6.7x10^9: Hs578T | 347.0 | -9.990 to 704.0 | No   | ns 0.0666 |
| 2.2x10^8:Hs578Ts(i)8 vs. 6.7x10^9: Hs578Ts(i)8 | 363.8 | 6.760 to 720.7 | Yes  | * 0.0410 |
| 2.2x10^8:Hs578Ts(i)8 vs. 8.9x10^9: Hs578T | 360.5 | 3.510 to 717.5 | Yes  | * 0.0451 |
| 2.2x10^8:Hs578Ts(i)8 vs. 8.9x10^9: Hs578Ts(i)8 | 414.3 | 57.26 to 771.2 | Yes  | ** 0.0081 |
| 4.4x10^8: Hs578T vs. 4.4x10^8: Hs578Ts(i)8 | -116.5 | -473.5 to 240.5 | No   | ns 0.9997 |
| 4.4x10^8: Hs578T vs. 11.1x10^8: Hs578T | 62.25 | -294.7 to 419.2 | No   | ns >0.9999 |
| 4.4x10^8: Hs578T vs. 11.1x10^8: Hs578Ts(i)8 | 12.50 | -344.5 to 369.5 | No   | ns >0.9999 |
| 4.4x10^8: Hs578T vs. 22.3x10^8: Hs578T | 79.00 | -278.0 to 436.0 | No   | ns >0.9999 |
| 4.4x10^8: Hs578T vs. 22.3x10^8: Hs578Ts(i)8 | 74.75 | -282.2 to 431.7 | No   | ns >0.9999 |
| 4.4x10^8: Hs578T vs. 4.5x10^9: Hs578T | 106.3 | -250.7 to 463.2 | No   | ns >0.9999 |
| 4.4x10^8: Hs578T vs. 4.5x10^9: Hs578Ts(i)8 | 108.5 | -248.5 to 465.5 | No   | ns >0.9999 |
| Comparison                          | Mean    | 95% CI       | Significant | p-value |
|------------------------------------|---------|--------------|-------------|---------|
| 4.4x10^8: Hs578T vs. 6.7x10^9: Hs578T | 123.3   | -233.7 to 480.2 | No          | ns      | 0.9994 |
| 4.4x10^8: Hs578T vs. 6.7x10^9: Hs578Ts(i)8 | 140.0   | -217.0 to 497.0 | No          | ns      | 0.9968 |
| 4.4x10^8: Hs578T vs. 8.9x10^9: Hs578T | 136.8   | -220.2 to 493.7 | No          | ns      | 0.9976 |
| 4.4x10^8: Hs578T vs. 8.9x10^9: Hs578Ts(i)8 | 190.5   | -166.5 to 547.5 | No          | ns      | 0.9160 |
| 4.4x10^8: Hs578Ts(i)8 vs. 11.1x10^8: Hs578T | 178.8   | -178.2 to 535.7 | No          | ns      | 0.9522 |
| 4.4x10^8: Hs578Ts(i)8 vs. 11.1x10^8: Hs578Ts(i)8 | 129.0   | -228.0 to 486.0 | No          | ns      | 0.9989 |
| 4.4x10^8: Hs578Ts(i)8 vs. 22.3x10^8: Hs578T | 195.5   | -161.5 to 552.5 | No          | ns      | 0.8963 |
| 4.4x10^8: Hs578Ts(i)8 vs. 22.3x10^8: Hs578Ts(i)8 | 191.3   | -165.7 to 548.2 | No          | ns      | 0.9132 |
| 4.4x10^8: Hs578Ts(i)8 vs. 4.5x10^9: Hs578T | 222.8   | -134.2 to 579.7 | No          | ns      | 0.7441 |
| 4.4x10^8: Hs578Ts(i)8 vs. 4.5x10^9: Hs578Ts(i)8 | 225.0   | -132.0 to 582.0 | No          | ns      | 0.7286 |
| 4.4x10^8: Hs578Ts(i)8 vs. 6.7x10^9: Hs578T | 239.8   | -117.2 to 596.7 | No          | ns      | 0.6211 |
| 4.4x10^8: Hs578Ts(i)8 vs. 6.7x10^9: Hs578Ts(i)8 | 256.5   | -100.5 to 613.5 | No          | ns      | 0.4942 |
| 4.4x10^8: Hs578Ts(i)8 vs. 8.9x10^9: Hs578T | 253.3   | -103.7 to 610.2 | No          | ns      | 0.5186 |
| 4.4x10^8: Hs578Ts(i)8 vs. 8.9x10^9: Hs578Ts(i)8 | 307.0   | -49.99 to 664.0 | No          | ns      | 0.1864 |
| 11.1x10^8: Hs578T vs. 11.1x10^8: Hs578Ts(i)8 | -49.75  | -406.7 to 307.2 | No          | ns      | >0.9999 |
| 11.1x10^8: Hs578T vs. 22.3x10^8: Hs578T | 16.75   | -340.2 to 373.7 | No          | ns      | >0.9999 |
| 11.1x10^8: Hs578T vs. 22.3x10^8: Hs578Ts(i)8 | 12.50   | -344.5 to 369.5 | No          | ns      | >0.9999 |
|                  |         |                 |    |     |       |
|------------------|---------|-----------------|----|-----|-------|
| 11.1x108: Hs578T vs. 4.5x109: Hs578T | 44.00   | -313.0 to 401.0 | No | ns  | >0.9999 |
| 11.1x108: Hs578T vs. 4.5x109:Hs578Ts(i)8 | 46.25   | -310.7 to 403.2 | No | ns  | >0.9999 |
| 11.1x108: Hs578T vs. 6.7x109: Hs578T | 61.00   | -296.0 to 418.0 | No | ns  | >0.9999 |
| 11.1x108: Hs578T vs. 6.7x109:Hs578Ts(i)8 | 77.75   | -279.2 to 434.7 | No | ns  | >0.9999 |
| 11.1x108: Hs578T vs. 8.9x109: Hs578T | 74.50   | -282.5 to 431.5 | No | ns  | >0.9999 |
| 11.1x108: Hs578T vs. 8.9x109:Hs578Ts(i)8 | 128.3   | -228.7 to 485.2 | No | ns  | 0.9990 |
| 11.1x108: Hs578Ts(i)8 vs. 22.3x108: Hs578T | 66.50   | -290.5 to 423.5 | No | ns  | >0.9999 |
| 11.1x108: Hs578Ts(i)8 vs. 22.3x108:Hs578Ts(i)8 | 62.25   | -294.7 to 419.2 | No | ns  | >0.9999 |
| 11.1x108: Hs578Ts(i)8 vs. 4.5x109: Hs578T | 93.75   | -263.2 to 450.7 | No | ns  | >0.9999 |
| 11.1x108: Hs578Ts(i)8 vs. 4.5x109:Hs578Ts(i)8 | 96.00   | -261.0 to 453.0 | No | ns  | >0.9999 |
| 11.1x108: Hs578Ts(i)8 vs. 6.7x109: Hs578T | 110.8   | -246.2 to 467.7 | No | ns  | 0.9999 |
| 11.1x108: Hs578Ts(i)8 vs. 6.7x109:Hs578Ts(i)8 | 127.5   | -229.5 to 484.5 | No | ns  | 0.9991 |
| 11.1x108: Hs578Ts(i)8 vs. 8.9x109: Hs578T | 124.3   | -232.7 to 481.2 | No | ns  | 0.9994 |
| 11.1x108: Hs578Ts(i)8 vs. 8.9x109:Hs578Ts(i)8 | 178.0   | -179.0 to 535.0 | No | ns  | 0.9540 |
| 22.3x108: Hs578T vs. 22.3x108:Hs578Ts(i)8 | -4.250  | -361.2 to 352.7 | No | ns  | >0.9999 |
| 22.3x108: Hs578T vs. 4.5x109: Hs578T | 27.25   | -329.7 to 384.2 | No | ns  | >0.9999 |
| 22.3x108: Hs578T vs. 4.5x109:Hs578Ts(i)8 | 29.50   | -327.5 to 386.5 | No | ns  | >0.9999 |
| Comparison          | Mean Difference | 95% CI       | P-value | Significance |
|---------------------|-----------------|--------------|---------|--------------|
| 22.3x108: Hs578T vs. 6.7x109: Hs578T | 44.25           | -312.7 to 401.2 | No      | ns           | >0.9999 |
| 22.3x108: Hs578T vs. 6.7x109:Hs578Ts(i)8 | 61.00           | -296.0 to 418.0 | No      | ns           | >0.9999 |
| 22.3x108: Hs578T vs. 8.9x109: Hs578T | 57.75           | -299.2 to 414.7 | No      | ns           | >0.9999 |
| 22.3x108: Hs578T vs. 8.9x109:Hs578Ts(i)8 | 111.5           | -245.5 to 468.5 | No      | ns           | 0.9999  |
| 22.3x108:Hs578Ts(i)8 vs. 4.5x109: Hs578T | 31.50           | -325.5 to 388.5 | No      | ns           | >0.9999 |
| 22.3x108:Hs578Ts(i)8 vs. 4.5x109:Hs578Ts(i)8 | 33.75           | -323.2 to 390.7 | No      | ns           | >0.9999 |
| 22.3x108:Hs578Ts(i)8 vs. 6.7x109: Hs578T | 48.50           | -308.5 to 405.5 | No      | ns           | >0.9999 |
| 22.3x108:Hs578Ts(i)8 vs. 6.7x109:Hs578Ts(i)8 | 65.25           | -291.7 to 422.2 | No      | ns           | >0.9999 |
| 22.3x108:Hs578Ts(i)8 vs. 8.9x109: Hs578T | 62.00           | -295.0 to 419.0 | No      | ns           | >0.9999 |
| 22.3x108:Hs578Ts(i)8 vs. 8.9x109:Hs578Ts(i)8 | 115.8           | -241.2 to 472.7 | No      | ns           | 0.9998  |
| 4.5x109: Hs578T vs. 4.5x109:Hs578Ts(i)8 | 2.250           | -354.7 to 359.2 | No      | ns           | >0.9999 |
| 4.5x109: Hs578T vs. 6.7x109: Hs578T | 17.00           | -340.0 to 374.0 | No      | ns           | >0.9999 |
| 4.5x109: Hs578T vs. 6.7x109:Hs578Ts(i)8 | 33.75           | -323.2 to 390.7 | No      | ns           | >0.9999 |
| 4.5x109: Hs578T vs. 8.9x109: Hs578T | 30.50           | -326.5 to 387.5 | No      | ns           | >0.9999 |
| 4.5x109: Hs578T vs. 8.9x109:Hs578Ts(i)8 | 84.25           | -272.7 to 441.2 | No      | ns           | >0.9999 |
| 4.5x109:Hs578Ts(i)8 vs. 6.7x109: Hs578T | 14.75           | -341.2 to 371.7 | No      | ns           | >0.9999 |
| 4.5x109:Hs578Ts(i)8 vs. 6.7x109:Hs578Ts(i)8 | 115.8           | -241.2 to 472.7 | No      | ns           | 0.9998  |
| 4.5x109:Hs578Ts(i)8 vs. 8.9x109: Hs578T | 28.25           | -328.7 to 385.2 | No      | ns           | >0.9999 |
| Sample | Mean 1 | Mean 2 | Mean Diff. | SE of diff. | N1 | N2 | q  | DF |
|--------|--------|--------|------------|-------------|----|----|----|----|
| 4.5x10^9: Hs578T vs. 8.9x10^9: Hs578T | 0.00   | 275.0  | -275.0 to 439.0 | No ns >0.9999 |
| 6.7x10^9: Hs578T vs. 6.7x10^9: Hs578T | 16.75  | -340.2 | -340.2 to 373.7 | No ns >0.9999 |
| 6.7x10^9: Hs578T vs. 8.9x10^9: Hs578T | 13.50  | -343.5 | -343.5 to 370.5 | No ns >0.9999 |
| 6.7x10^9: Hs578T vs. 8.9x10^9: Hs578T | 67.25  | -289.7 | -289.7 to 424.2 | No ns >0.9999 |
| 6.7x10^9: Hs578T vs. 8.9x10^9: Hs578T | -3.250 | -360.2 | -360.2 to 353.7 | No ns >0.9999 |
| 6.7x10^9: Hs578T vs. 8.9x10^9: Hs578T | 50.50  | -306.5 | -306.5 to 407.5 | No ns >0.9999 |
| 8.9x10^9: Hs578T vs. 8.9x10^9: Hs578T | 53.75  | -303.2 | -303.2 to 410.7 | No ns >0.9999 |
| Control (PBS): Hs578T vs. Control (PBS): Hs578T | 1800  | 1800  | 0.000 | 95.31 | 4 | 4 | 0.000 | 66.00 |
| Control (PBS): Hs578T vs. 2.2x10^7: Hs578T | 1800  | 1128  | 671.8 | 95.31 | 4 | 4 | 9.968 | 66.00 |
| Control (PBS): Hs578T vs. 2.2x10^7: Hs578T | 1800  | 1268  | 532.5 | 95.31 | 4 | 4 | 7.901 | 66.00 |
| Control (PBS): Hs578T vs. 4.5x10^7: Hs578T | 1800  | 868.0 | 932.0 | 95.31 | 4 | 4 | 13.83 | 66.00 |
| Control (PBS): Hs578T vs. 4.5x10^7: Hs578T | 1800  | 1012  | 788.0 | 95.31 | 4 | 4 | 11.69 | 66.00 |
| Control (PBS): Hs578T vs. 1.1x10^8: Hs578T | 1800  | 684.5 | 1116 | 95.31 | 4 | 4 | 16.55 | 66.00 |
| Control (PBS): Hs578T vs. 1.1x10^8: Hs578T | 1800  | 714.8 | 1085 | 95.31 | 4 | 4 | 16.10 | 66.00 |
| Control (PBS): Hs578T vs. 2.2x10^8: Hs578T | 1800  | 525.3 | 1275 | 95.31 | 4 | 4 | 18.92 | 66.00 |
| Control (PBS): Hs578T vs. 2.2x10^8:Hs578Ts(i)8 | 1800 | 538.8 | 1261 | 95.31 | 4 | 4 | 18.71 | 66.00 |
| Control (PBS): Hs578T vs. 4.4x10^8:Hs578T | 1800 | 315.0 | 1485 | 95.31 | 4 | 4 | 22.04 | 66.00 |
| Control (PBS): Hs578T vs. 4.4x10^8:Hs578Ts(i)8 | 1800 | 431.5 | 1369 | 95.31 | 4 | 4 | 20.31 | 66.00 |
| Control (PBS): Hs578T vs. 11.1x10^8:Hs578T | 1800 | 252.8 | 1547 | 95.31 | 4 | 4 | 22.96 | 66.00 |
| Control (PBS): Hs578T vs. 11.1x10^8:Hs578Ts(i)8 | 1800 | 302.5 | 1498 | 95.31 | 4 | 4 | 22.22 | 66.00 |
| Control (PBS): Hs578T vs. 22.3x10^8:Hs578T | 1800 | 236.0 | 1564 | 95.31 | 4 | 4 | 23.21 | 66.00 |
| Control (PBS): Hs578T vs. 22.3x10^8:Hs578Ts(i)8 | 1800 | 240.3 | 1560 | 95.31 | 4 | 4 | 23.14 | 66.00 |
| Control (PBS): Hs578T vs. 4.5x10^9:Hs578T | 1800 | 208.8 | 1591 | 95.31 | 4 | 4 | 23.61 | 66.00 |
| Control (PBS): Hs578T vs. 4.5x10^9:Hs578Ts(i)8 | 1800 | 206.5 | 1594 | 95.31 | 4 | 4 | 23.65 | 66.00 |
| Control (PBS): Hs578T vs. 6.7x10^9:Hs578T | 1800 | 191.8 | 1608 | 95.31 | 4 | 4 | 23.86 | 66.00 |
| Control (PBS): Hs578T vs. 6.7x10^9:Hs578Ts(i)8 | 1800 | 175.0 | 1625 | 95.31 | 4 | 4 | 24.11 | 66.00 |
| Control (PBS): Hs578T vs. 8.9x10^9:Hs578T | 1800 | 178.3 | 1622 | 95.31 | 4 | 4 | 24.06 | 66.00 |
| Control (PBS): Hs578T vs. 8.9x10^9:Hs578Ts(i)8 | 1800 | 124.5 | 1676 | 95.31 | 4 | 4 | 24.86 | 66.00 |
| Control (PBS): Hs578Ts(i)8 vs. 2.2x10^7:Hs578T | 1800 | 1128 | 671.8 | 95.31 | 4 | 4 | 9.968 | 66.00 |
| Control (PBS): Hs578Ts(i)8 vs. 2.2x10^7:Hs578Ts(i)8 | 1800 | 1268 | 532.5 | 95.31 | 4 | 4 | 7.901 | 66.00 |
| Control (PBS):Hs578Ts(i)8 vs. 4.5x10^7: Hs578T | 1800 | 868.0 | 932.0 | 95.31 | 4 | 4 | 13.83 | 66.00 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Control (PBS):Hs578Ts(i)8 vs. 1.1x10^8: Hs578T | 1800 | 1012 | 788.0 | 95.31 | 4 | 4 | 11.69 | 66.00 |
| Control (PBS):Hs578Ts(i)8 vs. 2.2x10^8: Hs578T | 1800 | 684.5 | 1116 | 95.31 | 4 | 4 | 16.55 | 66.00 |
| Control (PBS):Hs578Ts(i)8 vs. 4.4x10^8: Hs578T | 1800 | 714.8 | 1085 | 95.31 | 4 | 4 | 16.10 | 66.00 |
| Control (PBS):Hs578Ts(i)8 vs. 11.1x10^8: Hs578T | 1800 | 525.3 | 1275 | 95.31 | 4 | 4 | 18.92 | 66.00 |
| Control (PBS):Hs578Ts(i)8 vs. 22.3x10^8: Hs578T | 1800 | 538.8 | 1261 | 95.31 | 4 | 4 | 18.71 | 66.00 |
| Control (PBS):Hs578Ts(i)8 vs. 4.4x10^8: Hs578T | 1800 | 315.0 | 1485 | 95.31 | 4 | 4 | 22.04 | 66.00 |
| Control (PBS):Hs578Ts(i)8 vs. 11.1x10^8: Hs578T | 1800 | 431.5 | 1369 | 95.31 | 4 | 4 | 20.31 | 66.00 |
| Control (PBS):Hs578Ts(i)8 vs. 22.3x10^8: Hs578T | 1800 | 252.8 | 1547 | 95.31 | 4 | 4 | 22.96 | 66.00 |
| Control (PBS):Hs578Ts(i)8 vs. 11.1x10^8: Hs578T | 1800 | 302.5 | 1498 | 95.31 | 4 | 4 | 22.22 | 66.00 |
| Control (PBS):Hs578Ts(i)8 vs. 22.3x10^8: Hs578T | 1800 | 236.0 | 1564 | 95.31 | 4 | 4 | 23.21 | 66.00 |
| Control (PBS):Hs578Ts(i)8 vs. 22.3x10^8: Hs578T | 1800 | 240.3 | 1560 | 95.31 | 4 | 4 | 23.14 | 66.00 |
| Control (PBS):Hs578Ts(i)8 vs. | 1800 | 208.8 | 1591 | 95.31 | 4 | 4 | 23.61 | 66.00 |
| 4.5x10^9: Hs578T | | | | | | | | |
| Control (PBS):Hs578Ts(i)8 vs. | 1800 | 206.5 | 1594 | 95.31 | 4 | 4 | 23.65 | 66.00 |
| 4.5x10^9:Hs578Ts(i)8 | | | | | | | | |
| Control (PBS):Hs578Ts(i)8 vs. | 1800 | 191.8 | 1608 | 95.31 | 4 | 4 | 23.86 | 66.00 |
| 6.7x10^9: Hs578T | | | | | | | | |
| Control (PBS):Hs578Ts(i)8 vs. | 1800 | 175.0 | 1625 | 95.31 | 4 | 4 | 24.11 | 66.00 |
| 6.7x10^9:Hs578Ts(i)8 | | | | | | | | |
| Control (PBS):Hs578Ts(i)8 vs. | 1800 | 178.3 | 1622 | 95.31 | 4 | 4 | 24.06 | 66.00 |
| 8.9x10^9: Hs578T | | | | | | | | |
| Control (PBS):Hs578Ts(i)8 vs. | 1800 | 124.5 | 1676 | 95.31 | 4 | 4 | 24.86 | 66.00 |
| 8.9x10^9:Hs578Ts(i)8 | | | | | | | | |
| 2.2x10^7: Hs578T vs. | 1128 | 1268 | -139.3 | 95.31 | 4 | 4 | 2.066 | 66.00 |
| 2.2x10^7:Hs578Ts(i)8 | | | | | | | | |
| 2.2x10^7: Hs578T vs. | 1128 | 868.0 | 260.3 | 95.31 | 4 | 4 | 3.862 | 66.00 |
| 4.5x10^7: Hs578T | | | | | | | | |
| 2.2x10^7: Hs578T vs. | 1128 | 1012 | 116.3 | 95.31 | 4 | 4 | 1.725 | 66.00 |
| 4.5x10^7:Hs578Ts(i)8 | | | | | | | | |
| 2.2x10^7: Hs578T vs. | 1128 | 684.5 | 443.8 | 95.31 | 4 | 4 | 6.585 | 66.00 |
| 1.1x10^8: Hs578T | | | | | | | | |
| 2.2x10^7: Hs578T vs. | 1128 | 714.8 | 413.5 | 95.31 | 4 | 4 | 6.136 | 66.00 |
| 1.1x10^8:Hs578Ts(i)8 | | | | | | | | |
| 2.2x10^7: Hs578T vs. | 1128 | 525.3 | 603.0 | 95.31 | 4 | 4 | 8.948 | 66.00 |
| 2.2x10^8: Hs578T | | | | | | | | |
| 2.2x10^7: Hs578T vs. | 1128 | 538.8 | 589.5 | 95.31 | 4 | 4 | 8.747 | 66.00 |
| 2.2x10^8:Hs578Ts(i)8 | | | | | | | | |
| 2.2x10^7: Hs578T vs. | 1128 | 315.0 | 813.3 | 95.31 | 4 | 4 | 12.07 | 66.00 |
| 4.4x10^8: Hs578T | | | | | | | | |
| 2.2x10^7: Hs578T vs. | 1128 | 431.5 | 696.8 | 95.31 | 4 | 4 | 10.34 | 66.00 |
| 4.4x10^8:Hs578Ts(i)8 | | | | | | | | |
| Comparisons | Samples | 1128 | 252.8 | 875.5 | 95.31 | 4 | 4 | 12.99 | 66.00 |
|-------------|---------|------|-------|-------|-------|---|---|-------|-------|
| 2.2x10^7: Hs578T vs. 11.1x10^8: Hs578T |         | 1128 | 252.8 | 875.5 | 95.31 | 4 | 4 | 12.99 | 66.00 |
| 2.2x10^7: Hs578T vs. 22.3x10^8: Hs578T |         | 1128 | 252.8 | 875.5 | 95.31 | 4 | 4 | 12.99 | 66.00 |
| 2.2x10^7: Hs578T vs. 4.5x10^9: Hs578T |         | 1128 | 252.8 | 875.5 | 95.31 | 4 | 4 | 12.99 | 66.00 |
| 2.2x10^7: Hs578Ts(i)8 vs. 4.5x10^7: Hs578T |         | 1268 | 868.0 | 399.5 | 95.31 | 4 | 4 | 5.928 | 66.00 |
| 2.2x10^7: Hs578Ts(i)8 vs. 4.4x10^8: Hs578T |         | 1268 | 431.5 | 836.0 | 95.31 | 4 | 4 | 12.40 | 66.00 |
| Comparison                        | VCF 1 | VCF 2 | VCF 3 | VCF 4 | VCF 5 |
|----------------------------------|-------|-------|-------|-------|-------|
| 2.2x10^7: Hs578Ts(i)8 vs. 11.1x10^8: Hs578T | 1268  | 252.8 | 1015  | 95.31 | 4     |
|                                  |       |       |       |       | 15.06 |
| 2.2x10^7: Hs578Ts(i)8 vs. 11.1x10^8: Hs578Ts(i)8 | 1268  | 302.5 | 965.0 | 95.31 | 4     |
|                                  |       |       |       |       | 14.32 |
| 2.2x10^7: Hs578Ts(i)8 vs. 22.3x10^8: Hs578T | 1268  | 236.0 | 1032  | 95.31 | 4     |
|                                  |       |       |       |       | 15.31 |
| 2.2x10^7: Hs578Ts(i)8 vs. 22.3x10^8: Hs578Ts(i)8 | 1268  | 240.3 | 1027  | 95.31 | 4     |
|                                  |       |       |       |       | 15.24 |
| 2.2x10^7: Hs578Ts(i)8 vs. 4.5x10^9: Hs578T | 1268  | 208.8 | 1059  | 95.31 | 4     |
|                                  |       |       |       |       | 15.71 |
| 2.2x10^7: Hs578Ts(i)8 vs. 4.5x10^9: Hs578Ts(i)8 | 1268  | 206.5 | 1061  | 95.31 | 4     |
|                                  |       |       |       |       | 15.74 |
| 2.2x10^7: Hs578Ts(i)8 vs. 6.7x10^9: Hs578T | 1268  | 191.8 | 1076  | 95.31 | 4     |
|                                  |       |       |       |       | 15.96 |
| 2.2x10^7: Hs578Ts(i)8 vs. 6.7x10^9: Hs578Ts(i)8 | 1268  | 175.0 | 1093  | 95.31 | 4     |
|                                  |       |       |       |       | 16.21 |
| 2.2x10^7: Hs578Ts(i)8 vs. 8.9x10^9: Hs578T | 1268  | 178.3 | 1089  | 95.31 | 4     |
|                                  |       |       |       |       | 16.16 |
| 2.2x10^7: Hs578Ts(i)8 vs. 8.9x10^9: Hs578Ts(i)8 | 1268  | 124.5 | 1143  | 95.31 | 4     |
|                                  |       |       |       |       | 16.96 |
| 4.5x10^7: Hs578T vs. 4.5x10^7: Hs578Ts(i)8 | 868.0 | 1012  | -144.0| 95.31 | 4     |
|                                  |       |       |       |       | 2.137 |
| 4.5x10^7: Hs578T vs. 4.5x10^7: Hs578Ts(i)8 | 868.0 | 684.5 | 183.5 | 95.31 | 4     |
|                                  |       |       |       |       | 2.723 |
| 4.5x10^7: Hs578T vs. 1.1x10^8: Hs578T | 868.0 | 714.8 | 153.3 | 95.31 | 4     |
|                                  |       |       |       |       | 2.274 |
| 4.5x10^7: Hs578T vs. 1.1x10^8: Hs578Ts(i)8 | 868.0 | 525.3 | 342.8 | 95.31 | 4     |
|                                  |       |       |       |       | 5.086 |
| 4.5x10^7: Hs578T vs. 2.2x10^8: Hs578T | 868.0 | 538.8 | 329.3 | 95.31 | 4     |
|                                  |       |       |       |       | 4.886 |
| 4.5x10^7: Hs578T vs. 2.2x10^8: Hs578Ts(i)8 | 868.0 | 315.0 | 553.0 | 95.31 | 4     |
|                                  |       |       |       |       | 8.206 |
| 4.5x10^7: Hs578T vs. 4.4x10^8: Hs578T | 868.0 | 431.5 | 436.5 | 95.31 | 4     |
|                                  |       |       |       |       | 6.477 |
| 4.5x10^7: Hs578T vs. 4.4x10^8: Hs578Ts(i)8 | 868.0 | 431.5 | 436.5 | 95.31 | 4     |
|                                  |       |       |       |       | 6.477 |
| Comparison                        | F      | Tmean | Standard deviation | df | P      | df | P      |
|----------------------------------|--------|-------|--------------------|----|--------|----|--------|
| 4.5x10^7: Hs578T vs. 1.1x10^8: Hs578T| 868.0  | 252.8 | 615.3              | 4  | 9.129  | 66  | 0.00   |
| 4.5x10^7: Hs578T vs. 1.1x10^8: Hs578Ts(i)8 | 868.0  | 302.5 | 565.5              | 4  | 8.391  | 66  | 0.00   |
| 4.5x10^7: Hs578T vs. 2.2x10^8: Hs578T | 868.0  | 236.0 | 632.0              | 4  | 9.378  | 66  | 0.00   |
| 4.5x10^7: Hs578T vs. 2.2x10^8: Hs578Ts(i)8 | 868.0  | 240.3 | 627.8              | 4  | 9.315  | 66  | 0.00   |
| 4.5x10^7: Hs578T vs. 4.5x10^9: Hs578T | 868.0  | 191.8 | 676.3              | 4  | 10.03  | 66  | 0.00   |
| 4.5x10^7: Hs578T vs. 4.5x10^9: Hs578Ts(i)8 | 868.0  | 175.0 | 693.0              | 4  | 10.28  | 66  | 0.00   |
| 4.5x10^7: Hs578T vs. 6.7x10^9: Hs578T | 868.0  | 178.3 | 689.8              | 4  | 10.23  | 66  | 0.00   |
| 4.5x10^7: Hs578T vs. 6.7x10^9: Hs578Ts(i)8 | 868.0  | 124.5 | 743.5              | 4  | 11.03  | 66  | 0.00   |
| 4.5x10^7: Hs578T vs. 1.1x10^9: Hs578T | 1012   | 684.5 | 327.5              | 4  | 4.860  | 66  | 0.00   |
| 4.5x10^7: Hs578T vs. 1.1x10^9: Hs578Ts(i)8 | 1012   | 714.8 | 297.3              | 4  | 4.411  | 66  | 0.00   |
| 4.5x10^7: Hs578Ts(i)8 vs. 2.2x10^8: Hs578T | 1012   | 525.3 | 486.8              | 4  | 7.223  | 66  | 0.00   |
| 4.5x10^7: Hs578Ts(i)8 vs. 2.2x10^8: Hs578Ts(i)8 | 1012   | 538.8 | 473.3              | 4  | 7.022  | 66  | 0.00   |
| 4.5x10^7: Hs578Ts(i)8 vs. 4.4x10^8: Hs578T | 1012   | 315.0 | 697.0              | 4  | 10.34  | 66  | 0.00   |
| 4.5x10^7: Hs578Ts(i)8 vs. 4.4x10^8: Hs578Ts(i)8 | 1012   | 431.5 | 580.5              | 4  | 8.614  | 66  | 0.00   |
| 4.5x10^7: Hs578Ts(i)8 vs. 1.1x10^9: Hs578T | 1012   | 252.8 | 759.3              | 4  | 11.27  | 66  | 0.00   |
| Comparison                        | 1012 | 302.5 | 709.5 | 95.31 | 4     | 4     | 10.53 | 66.00 |
|----------------------------------|------|-------|-------|-------|-------|-------|-------|-------|
| 4.5x10^7:Hs578Ts(i)8 vs. 11.1x10^8:Hs578Ts(i)8 | 1012 | 236.0 | 776.0 | 95.31 | 4     | 4     | 11.51 | 66.00 |
| 4.5x10^7:Hs578Ts(i)8 vs. 22.3x10^8:Hs578T   | 1012 | 240.3 | 771.8 | 95.31 | 4     | 4     | 11.45 | 66.00 |
| 4.5x10^7:Hs578Ts(i)8 vs. 4.5x10^9:Hs578T   | 1012 | 208.8 | 803.3 | 95.31 | 4     | 4     | 11.92 | 66.00 |
| 4.5x10^7:Hs578Ts(i)8 vs. 6.7x10^9:Hs578T   | 1012 | 206.5 | 805.5 | 95.31 | 4     | 4     | 11.95 | 66.00 |
| 4.5x10^7:Hs578Ts(i)8 vs. 8.9x10^9:Hs578T   | 1012 | 191.8 | 820.3 | 95.31 | 4     | 4     | 12.17 | 66.00 |
| 1.1x10^8: Hs578T vs. 1.1x10^8:Hs578Ts(i)8 | 684.5| 714.8 | -30.25| 95.31 | 4     | 4     | 0.4489| 66.00 |
| 1.1x10^8: Hs578T vs. 2.2x10^8: Hs578T     | 684.5| 525.3 | 159.3 | 95.31 | 4     | 4     | 2.363 | 66.00 |
| 1.1x10^8: Hs578T vs. 2.2x10^8:Hs578Ts(i)8 | 684.5| 538.8 | 145.8 | 95.31 | 4     | 4     | 2.163 | 66.00 |
| 1.1x10^8: Hs578T vs. 4.4x10^8: Hs578T     | 684.5| 315.0 | 369.5 | 95.31 | 4     | 4     | 5.483 | 66.00 |
| 1.1x10^8: Hs578T vs. 4.4x10^8:Hs578Ts(i)8 | 684.5| 431.5 | 253.0 | 95.31 | 4     | 4     | 3.754 | 66.00 |
| 1.1x10^8: Hs578T vs. 11.1x10^8:Hs578T     | 684.5| 252.8 | 431.8 | 95.31 | 4     | 4     | 6.406 | 66.00 |
| 1.1x10^8: Hs578T vs. 11.1x10^8:Hs578Ts(i)8| 684.5| 302.5 | 382.0 | 95.31 | 4     | 4     | 5.668 | 66.00 |
| 1.1x10^8: Hs578T vs. 22.3x10^8: Hs578T    | 684.5| 236.0 | 448.5 | 95.31 | 4     | 4     | 6.655 | 66.00 |
| Comparison                              | N1  | N2  | N3  | N4  | N5  | N6  | N7  |
|----------------------------------------|-----|-----|-----|-----|-----|-----|-----|
| 1.1x10^8: Hs578T vs. 22.3x10^8:Hs578Ts(i)8 | 684.5 | 240.3 | 444.3 | 95.31 | 4 | 4 | 6.592 | 66.00 |
| 1.1x10^8: Hs578T vs. 4.5x10^9: Hs578T   | 684.5 | 208.8 | 475.8 | 95.31 | 4 | 4 | 7.059 | 66.00 |
| 1.1x10^8: Hs578T vs. 4.5x10^9:Hs578Ts(i)8 | 684.5 | 206.5 | 478.0 | 95.31 | 4 | 4 | 7.093 | 66.00 |
| 1.1x10^8: Hs578T vs. 6.7x10^9: Hs578T   | 684.5 | 191.8 | 492.8 | 95.31 | 4 | 4 | 7.312 | 66.00 |
| 1.1x10^8: Hs578T vs. 6.7x10^9:Hs578Ts(i)8 | 684.5 | 175.0 | 509.5 | 95.31 | 4 | 4 | 7.560 | 66.00 |
| 1.1x10^8: Hs578T vs. 8.9x10^9: Hs578T   | 684.5 | 178.3 | 506.3 | 95.31 | 4 | 4 | 7.512 | 66.00 |
| 1.1x10^8: Hs578T vs. 8.9x10^9:Hs578Ts(i)8 | 684.5 | 124.5 | 560.0 | 95.31 | 4 | 4 | 8.310 | 66.00 |
| 1.1x10^8:Hs578Ts(i)8 vs. 2.2x10^8: Hs578T | 714.8 | 525.3 | 189.5 | 95.31 | 4 | 4 | 2.812 | 66.00 |
| 1.1x10^8:Hs578Ts(i)8 vs. 2.2x10^8:Hs578Ts(i)8 | 714.8 | 538.8 | 176.0 | 95.31 | 4 | 4 | 2.612 | 66.00 |
| 1.1x10^8:Hs578Ts(i)8 vs. 4.4x10^8: Hs578T | 714.8 | 315.0 | 399.8 | 95.31 | 4 | 4 | 5.932 | 66.00 |
| 1.1x10^8:Hs578Ts(i)8 vs. 4.4x10^8:Hs578Ts(i)8 | 714.8 | 431.5 | 283.3 | 95.31 | 4 | 4 | 4.203 | 66.00 |
| 1.1x10^8:Hs578Ts(i)8 vs. 11.1x10^8: Hs578T | 714.8 | 252.8 | 462.0 | 95.31 | 4 | 4 | 6.855 | 66.00 |
| 1.1x10^8:Hs578Ts(i)8 vs. 11.1x10^8:Hs578Ts(i)8 | 714.8 | 302.5 | 412.3 | 95.31 | 4 | 4 | 6.117 | 66.00 |
| 1.1x10^8:Hs578Ts(i)8 vs. 22.3x10^8: Hs578T | 714.8 | 236.0 | 478.8 | 95.31 | 4 | 4 | 7.104 | 66.00 |
| 1.1x10^8:Hs578Ts(i)8 vs. 22.3x10^8:Hs578Ts(i)8 | 714.8 | 240.3 | 474.5 | 95.31 | 4 | 4 | 7.041 | 66.00 |
| 1.1x10^8:Hs578Ts(i)8 vs. 4.5x10^9: Hs578T | 714.8 | 208.8 | 506.0 | 95.31 | 4 | 4 | 7.508 | 66.00 |
| 1.1x10^8:Hs578Ts(i)8 vs. 4.5x10^9:Hs578Ts(i)8 | 714.8 | 206.5 | 508.3 | 95.31 | 4 | 4 | 7.542 | 66.00 |
| Comparison | Mean Value Hs578T | Mean Value Hs578Ts(i)8 | p-value | Fold Change |
|------------|-------------------|------------------------|---------|-------------|
| 1.1x10^8: Hs578Ts(i)8 vs. 6.7x10^9: Hs578T | 714.8 | 191.8 | 523.0 | 95.31 | 4 | 4 | 7.760 | 66.00 |
| 1.1x10^8: Hs578Ts(i)8 vs. 6.7x10^9: Hs578Ts(i)8 | 714.8 | 175.0 | 539.8 | 95.31 | 4 | 4 | 8.009 | 66.00 |
| 1.1x10^8: Hs578Ts(i)8 vs. 8.9x10^9: Hs578T | 714.8 | 178.3 | 536.5 | 95.31 | 4 | 4 | 7.961 | 66.00 |
| 1.1x10^8: Hs578Ts(i)8 vs. 8.9x10^9: Hs578Ts(i)8 | 714.8 | 124.5 | 590.3 | 95.31 | 4 | 4 | 8.758 | 66.00 |
| 2.2x10^8: Hs578T vs. 2.2x10^8: Hs578Ts(i)8 | 525.3 | 538.8 | -13.50 | 95.31 | 4 | 4 | 0.2003 | 66.00 |
| 2.2x10^8: Hs578T vs. 4.4x10^8: Hs578T | 525.3 | 315.0 | 210.3 | 95.31 | 4 | 4 | 3.120 | 66.00 |
| 2.2x10^8: Hs578T vs. 4.4x10^8: Hs578Ts(i)8 | 525.3 | 431.5 | 93.75 | 95.31 | 4 | 4 | 1.391 | 66.00 |
| 2.2x10^8: Hs578T vs. 11.1x10^8: Hs578T | 525.3 | 252.8 | 272.5 | 95.31 | 4 | 4 | 4.043 | 66.00 |
| 2.2x10^8: Hs578T vs. 11.1x10^8: Hs578Ts(i)8 | 525.3 | 302.5 | 222.8 | 95.31 | 4 | 4 | 3.305 | 66.00 |
| 2.2x10^8: Hs578T vs. 22.3x10^8: Hs578T | 525.3 | 236.0 | 289.3 | 95.31 | 4 | 4 | 4.292 | 66.00 |
| 2.2x10^8: Hs578T vs. 22.3x10^8: Hs578Ts(i)8 | 525.3 | 240.3 | 285.0 | 95.31 | 4 | 4 | 4.229 | 66.00 |
| 2.2x10^8: Hs578T vs. 4.5x10^9: Hs578T | 525.3 | 208.8 | 316.5 | 95.31 | 4 | 4 | 4.696 | 66.00 |
| 2.2x10^8: Hs578T vs. 4.5x10^9: Hs578Ts(i)8 | 525.3 | 206.5 | 318.8 | 95.31 | 4 | 4 | 4.730 | 66.00 |
| 2.2x10^8: Hs578T vs. 6.7x10^9: Hs578T | 525.3 | 191.8 | 333.5 | 95.31 | 4 | 4 | 4.949 | 66.00 |
| 2.2x10^8: Hs578T vs. 6.7x10^9: Hs578Ts(i)8 | 525.3 | 175.0 | 350.3 | 95.31 | 4 | 4 | 5.197 | 66.00 |
| 2.2x10^8: Hs578T vs. 8.9x10^9: Hs578T | 525.3 | 178.3 | 347.0 | 95.31 | 4 | 4 | 5.149 | 66.00 |
| 2.2x10^8: Hs578T vs. 8.9x10^9: Hs578Ts(i)8 | 525.3 | 124.5 | 400.8 | 95.31 | 4 | 4 | 5.946 | 66.00 |
| 2.2x10^8: Hs578T vs. 4.4x10^8: Hs578Ts(i)8 | 538.8 | 315.0 | 223.8 | 95.31 | 4 | 4 | 3.320 | 66.00 |
| Comparison                        | Value1  | Value2  | Value3  | Value4 | Value5 | Value6 |
|----------------------------------|---------|---------|---------|--------|--------|--------|
| 2.2x10^8: Hs578Ts(i) vs. 4.4x10^8: Hs578T | 538.8   | 431.5   | 107.3   | 95.31  | 4      | 1.591  | 66.00 |
| 2.2x10^8: Hs578Ts(i) vs. 11.1x10^8: Hs578T | 538.8   | 252.8   | 286.0   | 95.31  | 4      | 4.244  | 66.00 |
| 2.2x10^8: Hs578Ts(i) vs. 22.3x10^8: Hs578T | 538.8   | 302.5   | 236.3   | 95.31  | 4      | 3.506  | 66.00 |
| 2.2x10^8: Hs578Ts(i) vs. 4.5x10^9: Hs578T | 538.8   | 236.0   | 302.8   | 95.31  | 4      | 4.492  | 66.00 |
| 2.2x10^8: Hs578Ts(i) vs. 6.7x10^9: Hs578T | 538.8   | 240.3   | 298.5   | 95.31  | 4      | 4.429  | 66.00 |
| 2.2x10^8: Hs578Ts(i) vs. 8.9x10^9: Hs578T | 538.8   | 208.8   | 330.0   | 95.31  | 4      | 4.897  | 66.00 |
| 4.4x10^8: Hs578T vs. 4.4x10^8: Hs578Ts(i) | 315.0   | 431.5   | -116.5  | 95.31  | 4      | 1.729  | 66.00 |
| 4.4x10^8: Hs578T vs. 11.1x10^8: Hs578T | 315.0   | 252.8   | 62.25   | 95.31  | 4      | 0.9237 | 66.00 |
| 4.4x10^8: Hs578T vs. 22.3x10^8: Hs578T | 315.0   | 302.5   | 12.50   | 95.31  | 4      | 0.1855 | 66.00 |
| 4.4x10^8: Hs578T vs. 4.5x10^9: Hs578T | 315.0   | 236.0   | 79.00   | 95.31  | 4      | 1.172  | 66.00 |
| 4.4x10^8: Hs578T vs. 6.7x10^9: Hs578T | 315.0   | 240.3   | 74.75   | 95.31  | 4      | 1.109  | 66.00 |
| 4.4x10^8: Hs578T vs. 8.9x10^9: Hs578T | 315.0   | 208.8   | 106.3   | 95.31  | 4      | 1.577  | 66.00 |
| Comparison                               | Mean | SD  | p-value | N  | Effect Size | Significance |
|------------------------------------------|------|-----|---------|----|-------------|--------------|
| 4.4x10^8: Hs578T vs. 4.5x10^9:Hs578Tsl8  | 315.0| 206.5| 108.5   | 4  | 95.31       | 1.610        | 66.00       |
| 4.4x10^8: Hs578T vs. 6.7x10^9: Hs578T    | 315.0| 191.8| 123.3   | 4  | 95.31       | 1.829        | 66.00       |
| 4.4x10^8: Hs578T vs. 6.7x10^9:Hs578Tsl8  | 315.0| 175.0| 140.0   | 4  | 95.31       | 2.077        | 66.00       |
| 4.4x10^8: Hs578T vs. 8.9x10^9: Hs578T    | 315.0| 178.3| 136.8   | 4  | 95.31       | 2.029        | 66.00       |
| 4.4x10^8: Hs578T vs. 8.9x10^9:Hs578Tsl8  | 315.0| 124.5| 190.5   | 4  | 95.31       | 2.827        | 66.00       |
| 4.4x10^8:Hs578Tsl8 vs. 11.1x10^8: Hs578T | 431.5| 252.8| 178.8   | 4  | 95.31       | 2.652        | 66.00       |
| 4.4x10^8:Hs578Tsl8 vs. 11.1x10^8:Hs578Tsl8| 431.5| 302.5| 129.0   | 4  | 95.31       | 1.914        | 66.00       |
| 4.4x10^8:Hs578Tsl8 vs. 22.3x10^8: Hs578T | 431.5| 236.0| 195.5   | 4  | 95.31       | 2.901        | 66.00       |
| 4.4x10^8:Hs578Tsl8 vs. 22.3x10^8:Hs578Tsl8| 431.5| 240.3| 191.3   | 4  | 95.31       | 2.838        | 66.00       |
| 4.4x10^8:Hs578Tsl8 vs. 4.5x10^9: Hs578T  | 431.5| 208.8| 222.8   | 4  | 95.31       | 3.305        | 66.00       |
| 4.4x10^8:Hs578Tsl8 vs. 4.5x10^9:Hs578Tsl8| 431.5| 206.5| 225.0   | 4  | 95.31       | 3.339        | 66.00       |
| 4.4x10^8:Hs578Tsl8 vs. 6.7x10^9: Hs578T  | 431.5| 191.8| 239.8   | 4  | 95.31       | 3.558        | 66.00       |
| 4.4x10^8:Hs578Tsl8 vs. 6.7x10^9:Hs578Tsl8| 431.5| 175.0| 256.5   | 4  | 95.31       | 3.806        | 66.00       |
| 4.4x10^8:Hs578Tsl8 vs. 8.9x10^9: Hs578T  | 431.5| 178.3| 253.3   | 4  | 95.31       | 3.758        | 66.00       |
| 4.4x10^8:Hs578Tsl8 vs. 8.9x10^9:Hs578Tsl8| 431.5| 124.5| 307.0   | 4  | 95.31       | 4.555        | 66.00       |
| 11.1x10^8: Hs578T vs. 11.1x10^8:Hs578Tsl8| 252.8| 302.5| -49.75  | 4  | 95.31       | 0.7382       | 66.00       |
| 11.1x10^8: Hs578T vs. 22.3x10^8: Hs578T  | 252.8| 236.0| 16.75   | 4  | 95.31       | 0.2485       | 66.00       |
| Comparison                                      | Time | Max     | Min     | Mean   | N   | Sig   | Gen | Time | Max     | Min     | Mean   | N   | Sig   |
|------------------------------------------------|------|---------|---------|--------|-----|-------|-----|------|---------|---------|--------|-----|-------|
| 11.1x10⁸: Hs578T vs. 22.3x10⁸: Hs578Ts(i)⁸     | 252.8| 240.3   | 12.50   | 95.31  | 4   | 4     | 0.1855 | 66.00 |
| 11.1x10⁸: Hs578T vs. 4.5x10⁹: Hs578T          | 252.8| 208.8   | 44.00   | 95.31  | 4   | 4     | 0.6529 | 66.00 |
| 11.1x10⁸: Hs578T vs. 4.5x10⁹: Hs578Ts(i)⁸     | 252.8| 206.5   | 46.25   | 95.31  | 4   | 4     | 0.6863 | 66.00 |
| 11.1x10⁸: Hs578T vs. 22.3x10⁸: Hs578Ts(i)⁸   | 252.8| 191.8   | 61.00   | 95.31  | 4   | 4     | 0.9051 | 66.00 |
| 11.1x10⁸: Hs578T vs. 6.7x10⁹: Hs578T          | 252.8| 206.5   | 46.25   | 95.31  | 4   | 4     | 1.154  | 66.00 |
| 11.1x10⁸: Hs578T vs. 6.7x10⁹: Hs578Ts(i)⁸     | 252.8| 178.3   | 74.50   | 95.31  | 4   | 4     | 1.105  | 66.00 |
| 11.1x10⁸: Hs578T vs. 8.9x10⁹: Hs578T          | 252.8| 124.5   | 128.3   | 95.31  | 4   | 4     | 1.903  | 66.00 |
| 11.1x10⁸: Hs578Ts(i)⁸ vs. 22.3x10⁸: Hs578T    | 302.5| 236.0   | 66.50   | 95.31  | 4   | 4     | 0.9868 | 66.00 |
| 11.1x10⁸: Hs578Ts(i)⁸ vs. 4.5x10⁹: Hs578T     | 302.5| 240.3   | 62.25   | 95.31  | 4   | 4     | 0.9237 | 66.00 |
| 11.1x10⁸: Hs578Ts(i)⁸ vs. 4.5x10⁹: Hs578Ts(i)⁸ | 302.5| 208.8   | 93.75   | 95.31  | 4   | 4     | 1.391  | 66.00 |
| 11.1x10⁸: Hs578Ts(i)⁸ vs. 4.5x10⁹: Hs578Ts(i)⁸ | 302.5| 206.5   | 96.00   | 95.31  | 4   | 4     | 1.424  | 66.00 |
| 11.1x10⁸: Hs578Ts(i)⁸ vs. 6.7x10⁹: Hs578T      | 302.5| 191.8   | 110.8   | 95.31  | 4   | 4     | 1.643  | 66.00 |
| 11.1x10⁸: Hs578Ts(i)⁸ vs. 6.7x10⁹: Hs578Ts(i)⁸ | 302.5| 175.0   | 127.5   | 95.31  | 4   | 4     | 1.892  | 66.00 |
| 11.1x10⁸: Hs578Ts(i)⁸ vs. 8.9x10⁹: Hs578T      | 302.5| 178.3   | 124.3   | 95.31  | 4   | 4     | 1.844  | 66.00 |
| 11.1x10⁸: Hs578Ts(i)⁸ vs. 8.9x10⁹: Hs578Ts(i)⁸ | 302.5| 124.5   | 178.0   | 95.31  | 4   | 4     | 2.641  | 66.00 |
| 22.3x10⁸: Hs578T vs. 22.3x10⁸: Hs578Ts(i)⁸    | 236.0| 240.3   | -4.250  | 95.31  | 4   | 4     | 0.06306 | 66.00 |
| 22.3x10⁸: Hs578T vs. 4.5x10⁹: Hs578T          | 236.0| 208.8   | 27.25   | 95.31  | 4   | 4     | 0.4043 | 66.00 |
| Comparison                        | Temperature | Growth Rate | Death Rate | Population | p-value | Mean Survival | Confidence Interval |
|----------------------------------|-------------|-------------|------------|------------|---------|---------------|---------------------|
| 22.3x10^8: Hs578T vs. 4.5x10^9: Hs578Ts(i)8 | 236.0       | 206.5       | 29.50      | 95.31      | 4       | 4             | 0.4377 66.00        |
| 22.3x10^8: Hs578T vs. 6.7x10^9: Hs578T   | 236.0       | 191.8       | 44.25      | 95.31      | 4       | 4             | 0.6566 66.00        |
| 22.3x10^8: Hs578T vs. 6.7x10^9: Hs578Ts(i)8 | 236.0       | 175.0       | 61.00      | 95.31      | 4       | 4             | 0.9051 66.00        |
| 22.3x10^8: Hs578T vs. 8.9x10^9: Hs578T   | 236.0       | 178.3       | 57.75      | 95.31      | 4       | 4             | 0.8569 66.00        |
| 22.3x10^8: Hs578Ts(i)8 vs. 4.5x10^9: Hs578T | 240.3       | 208.8       | 31.50      | 95.31      | 4       | 4             | 0.4674 66.00        |
| 22.3x10^8: Hs578Ts(i)8 vs. 4.5x10^9: Hs578Ts(i)8 | 240.3       | 206.5       | 33.75      | 95.31      | 4       | 4             | 0.5008 66.00        |
| 22.3x10^8: Hs578Ts(i)8 vs. 6.7x10^9: Hs578T   | 240.3       | 191.8       | 48.50      | 95.31      | 4       | 4             | 0.7197 66.00        |
| 22.3x10^8: Hs578Ts(i)8 vs. 6.7x10^9: Hs578Ts(i)8 | 240.3       | 175.0       | 62.00      | 95.31      | 4       | 4             | 0.9200 66.00        |
| 22.3x10^8: Hs578Ts(i)8 vs. 8.9x10^9: Hs578T   | 240.3       | 178.3       | 62.00      | 95.31      | 4       | 4             | 0.9682 66.00        |
| 22.3x10^8: Hs578Ts(i)8 vs. 8.9x10^9: Hs578Ts(i)8 | 240.3       | 124.5       | 115.8      | 95.31      | 4       | 4             | 1.718 66.00         |
| 4.5x10^9: Hs578T vs. 4.5x10^9: Hs578Ts(i)8 | 208.8       | 206.5       | 2.250      | 95.31      | 4       | 4             | 0.03339 66.00       |
| 4.5x10^9: Hs578T vs. 6.7x10^9: Hs578T   | 208.8       | 191.8       | 17.00      | 95.31      | 4       | 4             | 0.2523 66.00        |
| 4.5x10^9: Hs578T vs. 6.7x10^9: Hs578Ts(i)8 | 208.8       | 175.0       | 33.75      | 95.31      | 4       | 4             | 0.5008 66.00        |
| 4.5x10^9: Hs578T vs. 8.9x10^9: Hs578T   | 208.8       | 178.3       | 30.50      | 95.31      | 4       | 4             | 0.4526 66.00        |
| 4.5x10^9: Hs578T vs. 8.9x10^9: Hs578Ts(i)8 | 208.8       | 124.5       | 84.25      | 95.31      | 4       | 4             | 1.250 66.00         |
| 4.5x10^9: Hs578Ts(i)8 vs. 6.7x10^9: Hs578T | 206.5       | 191.8       | 14.75      | 95.31      | 4       | 4             | 0.2189 66.00        |
| 4.5x10^9: Hs578Ts(i)8 vs. 6.7x10^9: Hs578Ts(i)8 | 206.5       | 175.0       | 31.50      | 95.31      | 4       | 4             | 0.4674 66.00        |
| Comparison                        | Mean 1 | Mean 2 | Mean Diff | Std Dev | N1 | N2 | p-value | 66.00 |
|----------------------------------|--------|--------|-----------|---------|----|----|---------|-------|
| 4.5x10^9: Hs578Ts(i)8 vs. 8.9x10^9: Hs578T | 206.5  | 178.3  | 28.25     | 95.31   | 4  | 4  | 0.4192  | 66.00 |
| 4.5x10^9: Hs578Ts(i)8 vs. 8.9x10^9: Hs578Ts(i)8 | 206.5  | 124.5  | 82.00     | 95.31   | 4  | 4  | 1.217   | 66.00 |
| 6.7x10^9: Hs578T vs. 6.7x10^9: Hs578Ts(i)8 | 191.8  | 175.0  | 16.75     | 95.31   | 4  | 4  | 0.2485  | 66.00 |
| 6.7x10^9: Hs578T vs. 8.9x10^9: Hs578T | 191.8  | 178.3  | 13.50     | 95.31   | 4  | 4  | 0.2003  | 66.00 |
| 6.7x10^9: Hs578T vs. 8.9x10^9: Hs578Ts(i)8 | 191.8  | 124.5  | 67.25     | 95.31   | 4  | 4  | 0.9979  | 66.00 |
| 6.7x10^9: Hs578Ts(i)8 vs. 8.9x10^9: Hs578T | 175.0  | 178.3  | -3.250    | 95.31   | 4  | 4  | 0.04822 | 66.00 |
| 6.7x10^9: Hs578Ts(i)8 vs. 8.9x10^9: Hs578Ts(i)8 | 175.0  | 124.5  | 50.50     | 95.31   | 4  | 4  | 0.7493  | 66.00 |
| 8.9x10^9: Hs578T vs. 8.9x10^9: Hs578Ts(i)8 | 178.3  | 124.5  | 53.75     | 95.31   | 4  | 4  | 0.7976  | 66.00 |
Supplement to Figure 4: All proteins identified by Proteomic Profiling

| LFQ intensity Hs578Ts EVs n=1 | LFQ intensity Hs578Ts EVs n=2 | LFQ intensity Hs578Ts EVs n=3 | LFQ intensity Hs578Ts(i) 8 EVs n=1 | LFQ intensity Hs578Ts(i) 8 EVs n=2 | LFQ intensity Hs578Ts(i) 8 EVs n=3 | N: Sequenc e coverage [%] | N: Mol. weight [kDa] | T: UNIPROT | T: Protein names | T: id | T: GENE |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------|------------------|-------------|-------------------|-------|--------|
| 26.2752                       | 27.9191                       | 26.8445                       | 24.1644                       | NaN                           | 24.4885                       | 15.6                     | 100.56          | A1L4H1-2    | Isoform 2 of Soluble scavenger receptor cysteine-rich domain-containing protein SSC5D | 12    | SSC5D  |
| 27.1815                       | 27.4736                       | 27.5678                       | 27.9174                       | 27.7079                       | 27.8081                       | 13.1                     | 104.1            | Q99613-2   | Isoform 2 of Eukaryotic translation initiation factor 3 subunit C | 15    | EIF3C  |
| 26.1543                       | 25.9314                       | 25.6807                       | 25.4349                       | 26.475                        | 26.2877                       | 10.7                     | 23.063           | B9A064      | Immunoglobulin lambda-like polypeptide 5 | 16    | IGLL5  |
| 28.6344                       | 28.9125                       | 28.9891                       | 29.2887                       | 29.0238                       | 29.4452                       | 41.7                     | 47.463           | O00231      | 26S proteasome non-ATPase regulatory subunit 11 | 21    | PSMD11 |
| 27.5666                       | 27.4699                       | 27.3283                       | 27.6709                       | 27.6707                       | 27.9365                       | 21.1                     | 52.904           | O00232      | 26S proteasome non-ATPase regulatory subunit 12 | 22    | PSMD12 |
| 29.7113                       | 29.6327                       | 29.9758                       | 30.2275                       | 29.7077                       | 29.5976                       | 63.1                     | 26.922           | O00299      | Chloride intracellular channel protein 1 | 23    | CLIC1   |
| 28.2822                       | 28.8268                       | 29.1598                       | 29.6312                       | 29.5266                       | 29.3689                       | 10.5                     | 190.68           | O00443      | Phosphatidylinositol 4-phosphate 3-kinase C2 domain-containing subunit alpha | 28    | PIK3C2A |
| 32.5674                       | 32.7871                       | 32.2523                       | 31.9321                       | 31.6519                       | 32.427                        | 44.8                     | 214.84          | O00468-6-6 | Isoform 6 of Agrin | 29    | AGRN    |
| Gene ID | Name | Description |
|--------|------|-------------|
| PSMD14 | 26S proteasome non-ATPase regulatory subunit 14 |
| SDCBP | Isoform 3 of Syntenin-1 |
| NOP56 | Nucleolar protein 56 |
| PODXL | Isoform 2 of Podocalyxin |
| CYR61 | Nucleolar protein 56 |
| TOR1B | Isoform 2 of Podocalyxin |
| ADAM10 | Disintegrin and metalloproteinase domain-containing protein 10 |
| SCAMP3 | Secretory carrier-associated membrane protein 3 |
| MYL12A | Myosin regulatory light chain 12A |
| XPO1 | Exportin-1 |
| ARPC1B | Actin-related protein 2/3 complex subunit 1B |
| ARPC2 | Actin-related protein 2/3 complex subunit 2 |
| LAMAS | Laminin subunit alpha-5 |
| EIF3D | Isoform IIa of Prolyl 4-hydroxylase subunit alpha-2 |
| Gene Symbol | Protein Name | Description | Expression | Protein Name | Description | Expression |
|-------------|--------------|-------------|------------|--------------|-------------|------------|
| DHX15       | Pre-mRNA-splicing factor ATP-dependent RNA helicase DHX15 | 61         |            |              |             |            |
| PHGDH       | D-3-phosphoglycerate dehydrogenase | 64         |            |              |             |            |
| PSMD3       | 26S proteasome non-ATPase regulatory subunit 3 | 65         |            |              |             |            |
| EEF1E1      | Eukaryotic translation elongation factor 1 epsilon | 68         |            |              |             |            |
| AKR7A2      | Aflatoxin B1 aldehyde reductase member 2 (Fragment) | 69         |            |              |             |            |
| TSPAN6      | Tetraspanin-6 | 70         |            |              |             |            |
| BUB3        | Mitotic checkpoint protein BUB3 (Fragment) | 71         |            |              |             |            |
| AP1G1       | AP-1 complex subunit gamma-1 | 72         |            |              |             |            |
| NARS        | Asparagine--tRNA ligase, cytoplasmic | 74         |            |              |             |            |
| LANCL1      | Glutathione S-transferase LANCL1 (Fragment) | 75         |            |              |             |            |
| EDIL3       | Isoform 2 of EGF-like repeat and discoidin I-like domain-containing protein 3 | 76         |            |              |             |            |
| PLOD3       | Multifunctional procollagen lysine hydroxylase and glycosyltransferase LH3 | 80         |            |              |             |            |
| KPNA6       | Importin subunit alpha-7 | 81         |            |              |             |            |
| UGDH        | UDP-glucose 6-dehydrogenase | 82         |            |              |             |            |
| USO1        | General vesicular transport factor p115 | 83         |            |              |             |            |
| HIST1H2BL   | Histone H2B type 1-L | 84         |            |              |             |            |
| Protein Id | Description                                                                 | Uniprot Id | Score |
|------------|------------------------------------------------------------------------------|------------|-------|
| NaN        | H/ACA ribonucleoprotein complex subunit DKC1 (Fragment)                      | H7BZF2     | 85    |
| NaN        | WD repeat-containing protein 1                                               | O75083     | 88    |
| NaN        | Copine-3                                                                     | O75131     | 89    |
| NaN        | Dnal homolog subfamily C member 14                                           | O75165     | 90    |
| NaN        | Isoform 2 of Xylulose kinase                                                 | O75191     | 91    |
| NaN        | Programmed cell death protein 6                                              | O75340     | 92    |
| NaN        | Isoform 1 of Core histone macro-H2A.1                                        | O75367     | 94    |
| NaN        | Isoform 5 of Filamin-B                                                       | O75533     | 96    |
| NaN        | Barrier-to-autointegration factor                                            | O75568     | 98    |
| NaN        | Splicing factor 3B subunit 1                                                 | O75533     | 99    |
| NaN        | US small nuclear ribonucleoprotein 200 kDa helicase                          | O75643     | 101   |
| NaN        | Cartilage-associated protein                                                 | O75718     | 102   |
| NaN        | 26S proteasome non-ATPase regulatory subunit 10                              | O75874     | 105   |
| NaN        | Isocitrate dehydrogenase [NADP] cytoplasmal                                | O75874     | 106   |
| NaN        | Tetraspanin-9 (Fragment)                                                     | O75874     | 110   |
| NaN        | Ribosomal L1 domain-containing protein 1 (Fragment)                          | O3L3C4     | 111   |
| NaN        | Stanniocalcin-2 (Fragment)                                                   | O3LYB13    | 113   |
| NaN        | Phosphodiesterase                                                           | O3E6C5     | 114   |
| NaN        | Protein transport protein Sec31A                                              | O3RH2S     | 116   |
| Gene Symbol | Description | Position | Chromosome | Log2 Log Fold Change | P-Value | Fold Change | Functional Category |
|-------------|-------------|----------|------------|---------------------|---------|-------------|---------------------|
| PRSS23      | Isoform 2 of Serine protease 23 | 117      | 17        | 41.6                | 9.6e-05 | 2.5         | Isoform 2 of Serine protease 23 |
| RTN3        | Isoform 3 of Reticulon-3 | 119      | 14        | 11                  | 1.3e-04 | 1.1         | Isoform 3 of Reticulon-3 |
| LUC7L3      | Myelin protein zero-like protein 1 (Fragment) | 121      | 17        | 11.2                | 1.8e-03 | 1.1         | Myelin protein zero-like protein 1 (Fragment) |
| IPO7        | Importin-7 | 123      | 19        | 119.52              | 2.2e-05 | 3.3         | Importin-7 |
| APOM        | Isoform 2 of Apolipoprotein M | 124      | 19        | 22.2                | 1.3e-04 | 1.1         | Isoform 2 of Apolipoprotein M |
| EML2        | Echinoderm microtubule-associated protein-like 2 | 128      | 19        | 70.678              | 2.1e-04 | 3.0         | Echinoderm microtubule-associated protein-like 2 |
| EFEMP2      | EGF-containing fibulin-like extracellular matrix protein 2 | 129      | 19        | 43.236              | 8.1e-05 | 2.0         | EGF-containing fibulin-like extracellular matrix protein 2 |
| ACTL6A      | Isoform 2 of Actin-like protein 6A | 130      | 19        | 48.191              | 3.7e-04 | 1.3         | Isoform 2 of Actin-like protein 6A |
| LDHA        | L-lactate dehydrogenase A chain | 131      | 19        | 36.888              | 2.1e-04 | 1.1         | L-lactate dehydrogenase A chain |
| ALDH1A1     | Retinal dehydrogenase 1 | 132      | 19        | 54.861              | 5.1e-05 | 2.5         | Retinal dehydrogenase 1 |
| CP          | Ceruloplasmin | 135      | 19        | 122.2               | 1.1e-04 | 2.2         | Ceruloplasmin |
| F13A1       | Coagulation factor XIII A chain | 136      | 19        | 83.266              | 3.8e-04 | 2.3         | Coagulation factor XIII A chain |
| F10         | Coagulation factor X | 143      | 19        | 90.568              | 8.2e-05 | 3.6         | Coagulation factor X |
| F11         | Plasminogen | 144      | 19        | 46.53               | 1.1e-04 | 1.5         | Plasminogen |
| SERPINC1    | Antithrombin-III | 147      | 19        | 52.602              | 2.1e-04 | 1.1         | Antithrombin-III |

This table lists the gene symbols, descriptions, positions, chromosomes, log2 log fold changes, p-values, fold changes, and functional categories of various genes. The table includes columns for each of these parameters, allowing for easy reference and comparison of the gene expression data.
| Value1 | Value2 | Value3 | Value4 | Value5 | Value6 | Value7 |
|--------|--------|--------|--------|--------|--------|--------|
| 24.1233 | 23.9345 | 24.1307 | NaN | 26.2992 | 24.3255 | 6.9 | 47.65 | P01011 | Alpha-1-antichymotrypsin | 148 | SERPINA3 |
| 33.3455 | 33.1745 | 32.3165 | 33.5592 | 33.7026 | 34.3161 | 4.7 | 163.29 | P01023 | Alpha-2-macroglobulin | 149 | A2M |
| 31.3122 | 30.7214 | 30.8911 | 31.1759 | 31.3218 | 31.7603 | 5.8 | 187.15 | P01024 | Complement C3 | 150 | C3 |
| 27.6617 | 27.7176 | 27.4222 | 27.6952 | 27.6479 | 28.183 | 2.2 | 188.3 | P01031 | Complement C5 | 151 | C5 |
| 27.6827 | 27.7149 | 28.6594 | 27.6671 | 28.4094 | 27.9297 | 2.3 | 43.821 | P01042-3 | Isoform 3 of Kinogen-1 | 152 | KNG1 |
| 27.0068 | 28.4482 | 28.2192 | 27.8994 | NaN | NaN | 21.4 | 10.959 | A6XGL2 | Insulin | 153 | INS |
| NaN | 26.0691 | 26.1035 | 25.4364 | 27.8995 | 26.5405 | 18 | 31.983 | AO0A0MS07 | Immunoglobulin heavy constant gamma 1 (Fragment) | 157 | IGHG1 |
| 27.8223 | 28.6047 | 28.7728 | 28.3722 | 28.7404 | 28.224 | 18.4 | 16.203 | P02100 | Hemoglobin subunit epsilon | 158 | HBE1 |
| 31.6785 | 32.6216 | 31.7455 | 28.9836 | 28.2388 | 29.0012 | 34.4 | 138.94 | P02452 | Collagen alpha-1(I) chain | 159 | COL1A1 |
| 28.8837 | 28.8777 | 28.9032 | 25.9132 | 25.9573 | 27.0583 | 11.9 | 138.56 | P02461 | Collagen alpha-1(III) chain | 160 | COL3A1 |
| 26.1979 | 25.63 | 25.3795 | 26.8609 | 26.3246 | 26.9675 | 10.1 | 39.731 | AO3B3ISV3 | Collagen alpha-1(IV) chain (Fragment) | 161 | COL4A1 |
| 26.2785 | NaN | 28.055 | 26.1526 | 27.4494 | 25.693 | 23.1 | 51.561 | P02533 | Keratin, type I cytoskeletal 14 | 163 | KRT14 |
| 30.2605 | 30.3834 | 30.243 | 29.677 | 32.0731 | 30.6482 | 51.7 | 30.777 | P02647 | Apolipoprotein A-I | 166 | APOA1 |
| 31.3279 | 32.0873 | 31.1021 | 31.4011 | 31.1535 | 31.1452 | 24.9 | 36.154 | P02649 | Apolipoprotein E | 167 | APOE |
| 26.5793 | 27.567 | 26.6937 | 26.8657 | 26.7434 | 27.1234 | 16.2 | 10.852 | P02656 | Apolipoprotein C-III | 168 | APOC3 |
| 27.7341 | 25.7611 | 25.7269 | 28.0604 | 28.4467 | 28.3457 | 7.9 | 49.496 | P02679-2 | Isoform Gamma-A of Fibrinogen gamma chain | 171 | FGG |
| 25.3156 | 25.4046 | 25.3601 | 24.74 | 27.6283 | 26.1633 | 34.7 | 10.811 | E9PMRS | Myelin basic protein | 172 | MBP |
| 28.3551 | 27.5295 | 27.1064 | 27.7662 | 29.0054 | 28.8022 | 3.8 | 63.173 | P02748 | Complement component C9 | 173 | C9 |
| 26.9346 | 26.9334 | 26.5729 | 28.6494 | 28.0352 | 27.1597 | 8.7 | 11.552 | J3KS17 | Beta-2-glycoprotein 1 (Fragment) | 174 | APOH |
| 36.55 | 36.5894 | 36.2847 | 36.2501 | 35.9602 | 36.4148 | 56.7 | 262.62 | P02751 | Fibronectin | 175 | FN1 |
| 27.1433 | NaN | 26.9419 | 26.1205 | 27.1543 | 26.891 | 10.1 | 22.974 | Q5VY30 | Retinol-binding protein | 176 | RBP4 |
| 32.9923 | 31.9565 | 32.4916 | 31.3202 | 32.1996 | 32.0642 | 8.2 | 39.34 | P02765 | Alpha-2-HS-glycoprotein | 177 | AHSG |
| 34.5319 | 34.2779 | 34.3227 | 33.6935 | 35.7019 | 34.7495 | 5.4 | 69.366 | P02768 | Serum albumin | 178 | ALB |
| 29.4339 | 30.9169 | 30.9061 | 30.5806 | 30.9296 | 31.1473 | 6.7 | 68.677 | P02771 | Alpha-fetoprotein | 179 | AFP |
| 31.3057 | 31.5532 | 31.6004 | 31.044 | 31.412 | 31.0549 | 12 | 52.917 | P02774 | Vitamin D-binding protein | 180 | GC |
| 29.3568 | 29.4308 | 29.3954 | 30.7638 | 30.4762 | 30.5622 | 25.5 | 84.87 | P02786 | Transferrin receptor protein 1 | 181 | TFRC |
| 31.4096 | 31.0795 | 31.1591 | 30.3193 | 31.7743 | 31.305 | 4.5 | 73.16 | P02788-2 | Isoform DeltaL of Lactotransferrin | 183 | LTF |
| P02790 | Hemopexin | 184 | HPX  |
| P04004 | Ferritin | 185 | FTH1 |
| P04083 | Tissue alpha-L-fucosidase | 190 | FUCA1 |
| P04083 | Annexin A1 | 192 | ANXA1 |
| A2A2V1 | Major prion protein (Fragment) | 194 | PRNP |
| P04181 | Ornithine aminotransferase, mitochondrial | 196 | OAT |
| P04181 | Thy-1 membrane glycoprotein (Fragment) | 198 | THY1 |
| P04406 | Glyceraldehyde-3-phosphate dehydrogenase | 201 | GAPDH |
| P04424 | Argininosuccinate lyase | 202 | ASL |
| P05023 | Isoform 2 of Sodium/potassium-transporting ATPase subunit alpha-1 | 207 | ATP1A1 |
| P05106 | Isoform 2 of Sodium/potassium-transporting ATPase subunit beta-1 | 208 | ATP1B1 |
| P05155 | Isoform 2 of Plasma protease C1 inhibitor | 212 | SERPING1 |
| Gene   | Description                                                                 | Accession | SwissProt | M   | M'  | M'' | M''' | MIV | 26.0057 |
|--------|----------------------------------------------------------------------------|-----------|-----------|-----|-----|-----|-----|-----|---------|
| EIF2S1 | Eukaryotic translation initiation factor 2 subunit 1 (Fragment)             | P05387    | P05384    | 214 | 215 | 216 | 217 | 218 | 219     |
| RPLP2  | 60S acidic ribosomal protein P2                                            | P05388    | P05385    | 215 | 216 | 216 | 217 | 218 | 219     |
| RPLP0  | 60S acidic ribosomal protein P0                                              | P05389    | P05390    | 216 | 217 | 217 | 218 | 218 | 219     |
| CLEC3B | Tetranectin                                                                | P05422    | P05423    | 218 | 219 | 220 | 221 | 222 | 223     |
| HLA-A  | HLA class I histocompatibility antigen, A-24 alpha chain                    | P05430    | P05431    | 222 | 223 | 223 | 224 | 225 | 226     |
| SERPIND1| Integrin beta-1                                                             | P05442    | P05443    | 224 | 225 | 225 | 226 | 227 | 228     |
| UROD   | Uroporphyrinogen decarboxylase                                             | P05452    | P05453    | 225 | 226 | 226 | 227 | 228 | 229     |
| GSN    | Isoform 2 of Gelsolin                                                       | P05462    | P05463    | 226 | 227 | 227 | 228 | 229 | 230     |
| ENO1   | Alpha-enolase                                                               | P05472    | P05473    | 231 | 232 | 232 | 233 | 234 | 235     |
| PYGL   | Isoform 2 of Glycogen phosphorylase, liver form                             | P05482    | P05483    | 232 | 233 | 233 | 234 | 235 | 236     |
| NPM1   | Isoform 2 of Nucleophosmin                                                  | P05492    | P05493    | 234 | 235 | 235 | 236 | 237 | 238     |
| ITGAV  | Isoform 3 of Integrin alpha-V                                              | P05502    | P05503    | 236 | 237 | 237 | 238 | 239 | 240     |
| LPL    | Lipoprotein lipase                                                          | P05512    | P05513    | 237 | 238 | 238 | 239 | 240 | 241     |
| QH2    | Histone H2B type 2-E                                                       | P05522    | P05523    | 238 | 239 | 239 | 240 | 241 | 242     |
| EPHX1  | Epoxide hydrolase 1                                                         | P05532    | P05533    | 240 | 241 | 241 | 242 | 243 | 244     |
| LDHB   | L-lactate dehydrogenase B chain                                             | P05542    | P05543    | 241 | 242 | 242 | 243 | 244 | 245     |
| GPX1   | Glutathione peroxidase                                                      | P05552    | P05553    | 242 | 243 | 243 | 244 | 245 | 246     |
| H1F0   | Histone H1.0                                                                | P05562    | P05563    | 243 | 244 | 244 | 245 | 246 | 247     |
| Uncharacterized protein (Fragment)                                         | H7C469    | Uncharacterized | 244 | 245 | 245 | 246 | 247 | 248     |
| Gene ID  | Description                                                   | Value | Source | Fold Change |
|---------|---------------------------------------------------------------|-------|--------|-------------|
| 29.0057 | 28.6207                                                      | 28.7134 | 30.6738 | 29.3928     | 29.7463 | 49.9 | 38.604 | P07355 | Annexin A2 | 245 | ANXA2 |
| 29.3143 | 30.0723                                                      | 29.9786 | 30.8153 | 30.9369     | 30.6121 | 56.6 | 47.766 | Q5JP53 | Tubulin beta chain | 246 | TUBB |
| 29.9191 | 29.575                                                       | 29.8688 | 29.6288 | 29.2874     | 29.0608 | 63.6 | 15.054 | P07737 | Profilin-1 | 247 | PFN1 |
| 27.4166 | 27.4224                                                      | 27.351  | 27.2973 | NaN         | NaN     | 18.1 | 30.005 | P07738 | Bisphosphoglycerate mutase | 248 | BPGM |
| 29.6224 | 29.7074                                                      | 29.7494 | 29.6385 | 29.7969     | 29.8904 | 24.4 | 170.59 | P07814 | Bifunctional glutamate/proline--tRNA ligase | 250 | EPRS |
| 30.8889 | 30.7276                                                      | 30.8901 | 31.1396 | 30.6348     | 30.4688 | 40.4 | 84.659 | P07900 | Heat shock protein HSP 90-alpha | 252 | HSP90AA1 |
| 25.4487 | 25.5866                                                      | 25.8598 | 25.799  | 25.8147     | 27.1343 | 24.7 | 25.256 | G3V576 | Heterogeneous nuclear ribonucleoproteins C1/C2 | 253 | HNRNPC |
| 31.6322 | 32.1004                                                      | 31.4417 | 30.9386 | 30.836      | 31.6977 | 34.9 | 198.04 | P07942 | Laminin subunit beta-1 | 254 | LAMB1 |
| 35.4396 | 36.4292                                                      | 35.645  | 34.584  | 34.5541     | 34.8794 | 66.3 | 129.38 | P07996 | Thrombospondin-1 | 255 | THBS1 |
| 30.2871 | 30.8434                                                      | 30.1683 | 26.9036 | 26.7922     | 27.4826 | 21.3 | 129.15 | A0A087WT A8 | Collagen alpha-2(I) chain | 256 | COL1A2 |
| 27.0457 | 26.7466                                                      | 27.1008 | 29.8077 | 27.97       | 28.7489 | 29.4 | 75.872 | P08133 | Annexin A6 | 257 | ANXA6 |
| 31.266  | 31.4519                                                      | 31.3877 | 31.8374 | 31.2446     | 31.5711 | 39.3 | 57.944 | P08195-2 | Isoform 2 of 4F2 cell-surface antigen heavy chain | 259 | SLC3A2 |
| 32.5482 | 32.7294                                                      | 32.7171 | 32.5036 | 32.3867     | 32.2181 | 43.8 | 83.263 | P08238 | Heat shock protein HSP 90-beta | 260 | HSP90AB1 |
| 27.0076 | 27.8368                                                      | 27.0465 | 26.6823 | 26.3239     | 26.2883 | 17.8 | 65.764 | P08253-2 | Isoform 2 of 72 kDa type IV collagenase | 261 | MMP2 |
| 29.3135 | 28.9543                                                      | 28.6251 | 29.7382 | 28.5596     | 29.0204 | 3.1  | 88.036 | A0A3B3IU7 9 | Integrin alpha-Ilb (Fragment) | 264 | ITGA2B |
| 29.3581 | 29.4932                                                      | 29.6684 | 29.2602 | 29.3901     | 29.0829 | 4    | 40.124 | P08567 | Pleckstrin | 265 | PLEC |
| 27.9915 | 27.6919                                                      | 27.8994 | 28.156  | 27.9204     | 27.7856 | 19   | 51.556 | P08621 | U1 small nuclear ribonucleoprotein 70 kDa | 267 | SNRNP70 |
| 29.3378 | 29.371                                                       | 29.5591 | 28.9204 | 28.5183     | 28.8518 | 18   | 114.54 | P08648 | Integrin alpha-5 | 268 | ITGA5 |
| 28.7302 | 28.7523                                                      | 28.4294 | 29.0641 | 28.9237     | 28.8333 | 31.1 | 49.653 | BOYJC4 | Vimentin variant 3 | 269 | VIM |
| 29.1282 | 29.3918                                                      | 29.2589 | 29.6898 | 29.6373     | 29.5282 | 11.8 | 27.823 | C9JM6H | Alpha-2-antiplasmin (Fragment) | 270 | SERPINF2 |
| 28.1354 | 28.5652                                                      | 28.1824 | 28.3315 | 28.6671     | 29.3972 | 23.7 | 15.55  | P08708 | 40S ribosomal protein S17 | 271 | RPS17 |
| 27.6305 | 26.7967                                                      | 26.9564 | 29.4658 | 27.8433     | 28.1195 | 23.1 | 35.936 | P08758 | Annexin A5 | 272 | ANXA5 |
| 31.0079 | 30.9238                                                      | 31.0534 | 31.4923 | 31.0881     | 31.139  | 66.9 | 29.404 | C9JK3  | 40S ribosomal protein SA (Fragment) | 273 | RPSA |
| P09211 | Glutathione S-transferase P | GSTP1 | 274 |
|---------|-----------------------------|-------|-----|
| P09382 | Galectin-1                  | LGALS1 | 275 |
| P09417 | Dihydropteridine reductase  | QDPR  | 276 |
| P09486 | SPARC                       | SPARC | 279 |
| P09496 | Isoform Non-brain of Clathrin light chain A | CLTA | 280 |
| P09497 | Isoform Non-brain of Clathrin light chain B | CLTB | 281 |
| P09619 | Platelet-derived growth factor receptor beta | PDGFRB | 283 |
| P09625 | Complement C4-B             | C4B   | 286 |
| P09670 | Heat shock 70 kDa protein 1B | HSPA1B | 288 |
| P09675 | Calmodulin-3                | CALM3 | 289 |
| P10646 | Tissue factor pathway inhibitor | TFPI | 293 |
| P10768 | S-formylglutathione hydrolase | ESD | 294 |
| P10809 | 60 kDa heat shock protein, mitochondrial | HSPD1 | 295 |
| P10909 | Isoform 4 of Clusterin      | CLU   | 296 |
| P11047 | Laminin subunit gamma-1     | LAMC1 | 299 |
| P11142 | Endoplasmic reticulum chaperone BiP | HSPA5 | 298 |
| P11166 | Solute carrier family 2, facilitated glucose transporter member 1 | SLC2A1 | 301 |
| Protein ID | Protein Name                           | Gene ID | Accession |
|-----------|---------------------------------------|---------|-----------|
| EPB41     | Protein 4.1                           | 302     | A0A2R8Y6D0 |
| PYGB      | Glycogen phosphorylase, brain form    | 303     | P11216    |
| RALB      | Ras-related protein Ral-B             | 304     | P11234    |
| TOP1      | DNA topoisomerase 1                   | 305     | P11387    |
| G6PD      | Glucose-6-phosphate 1-dehydrogenase  | 307     | P11413    |
| MTHFD1    | C-1-tetrahydrofolate synthase, cytoplasmic | 308   | P11766    |
| IGF2R     | Cation-independent mannose-6-phosphate receptor | 309   | P11717    |
| ADH5      | Alcohol dehydrogenase class-3        | 310     | P11766    |
| PABPC1    | Polyadenylate-binding protein         | 311     | P11877    |
| COL6A1    | Collagen alpha-1(VI) chain            | 313     | P11877    |
| COL6A2    | Collagen alpha-2(VI) chain            | 314     | P11877    |
| COL6A3    | Collagen alpha-3(VI) chain            | 315     | P11877    |
| F5        | Coagulation factor V                  | 316     | P11877    |
| IMPDH2    | Inosine-5-monophosphate dehydrogenase 2 (Fragment) | 317   | P11877    |
| ACTN1     | Alpha-actinin-1                       | 319     | P11877    |
| XRCC6     | X-ray repair cross-complementing protein 6 | 320   | P11877    |
| XRCC5     | X-ray repair cross-complementing protein 5 | 321   | P11877    |
| GP1BB     | Platelet glycoprotein Ib beta chain   | 322     | P11877    |
| RNH1      | Ribonuclease inhibitor                | 324     | P11877    |
| BMP1      | Isoform BMP1-6 of Bone morphogenetic protein 1 | 325   | P11877    |
| VCAN      | Versican core protein                 | 326     | P11877    |
| ITGA4     | Integrin alpha-4                      | 327     | P11877    |
| Abbr | Description                                                                 | Value 1 | Value 2 | Value 3 | Value 4 | Value 5 | Value 6 | Value 7 | Value 8 | Value 9 | Value 10 |
|------|------------------------------------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| EEF2 | Elongation factor 2                                                           | 95.337  | P13639  |         |         |         |         |         |         |         | 328     |
| KRT10| Keratin, type I cytoskeletal 10                                              | 58.826  | P13645  |         |         |         |         |         |         |         | 329     |
| P4HA1| Isoform 3 of Prolyl 4-hydroxylase subunit alpha-1                          | 58.957  | P13674-3|         |         |         |         |         |         |         | 332     |
| F3   | Isoform 2 of Tissue factor                                                   | 27.145  | P13726-2|         |         |         |         |         |         |         | 334     |
| GYS1 | Isoform 2 of Glycogen [starch] synthase, muscle                              | 36.482  | P13807-2|         |         |         |         |         |         |         | 335     |
| AKR1A1| Aldo-keto reductase family 1 member A1                                         | 36.573  | P14550-2|         |         |         |         |         |         |         | 339     |
| PKM  | Pyruvate kinase PKM                                                          | 9.1     | P14625  |         |         |         |         |         |         |         | 340     |
| HSP90B1| Endoplasmin                                                                | 8.9     | P14868-2|         |         |         |         |         |         |         | 341     |
| ERF3A| Uncharacterized protein                                                       | 17.546  | J3QLE5  |         |         |         |         |         |         |         | 342     |
| AKR1B1| Isoform 2 of Aspartate--tRNA ligase, cytoplasmic                           | 43.1    | P14868-2|         |         |         |         |         |         |         | 344     |
| ANPEP| Aldose reductase                                                             | 45.771  | P15121-3|         |         |         |         |         |         |         | 345     |
| PVR  | Aldo-keto reductase family 1 member A1                                         | 39.304  | P15144  |         |         |         |         |         |         |         | 346     |
| H3BR35| Uncharacterized protein                                                      | 109.54  | P15529-15|         |         |         |         |         |         |         | 347     |
| GSPT1| Isoform Gamma of Poliovirus virus receptor                                   | 52.832  | H3BR35  |         |         |         |         |         |         |         | 348     |
| CD46 | Eukaryotic peptide chain release factor GTP-binding subunit ERF3A (Fragment) | 52.832  | H3BR35  |         |         |         |         |         |         |         | 349     |
| CD44 | Isoform K of Membrane cofactor protein                                       | 7.2     | P15529-15|         |         |         |         |         |         |         | 350     |
| CD46 | Isoform 2 of Aspartate--tRNA ligase, cytoplasmic                            | 27.295  | P15559-2|         |         |         |         |         |         |         | 352     |
| NQO1 | Isoform 2 of NAD(P)H dehydrogenase [quinone] 1                              | 43.3    | P15880  |         |         |         |         |         |         |         | 353     |
| CD44 | 40S ribosomal protein S2                                                     | 27.925  | P16152  |         |         |         |         |         |         |         | 354     |
| CBR1 | Carbonyl reductase [NADPH] 1                                                | 42.2    | P16402  |         |         |         |         |         |         |         | 355     |
| HIST1H1D| Histone H1.3                                                                | 22.35   | P16402  |         |         |         |         |         |         |         | 356     |
| P16403 | Histone H1.2 | 359 | HIST1H1C |
|--------|--------------|-----|----------|
| H3BQV5 | 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase gamma-2 (Fragment) | 360 | PLCG2 |
| E7ESP4 | Integrin alpha-2 | 363 | ITG2A |
| AOA3B3IR12 | CTP synthase | 367 | CTPS1 |
| P17813 | Isoform Short of Endoglin | 368 | ENG |
| P17858 | ATP-dependent 6-phosphofructokinase, liver type | 370 | PFKL |
| R4GNH3 | 26S proteasome regulatory subunit 6A | 371 | PSMC3 |
| P17987 | T-complex protein 1 subunit alpha | 372 | TCP1 |
| P18084 | 60S ribosomal protein L7 (Fragment) | 373 | RPL35A |
| P18124 | Isoform 1 of Vinculin | 374 | RPL7 |
| P18206 | 60S ribosomal protein L17 | 375 | ARF4 |
| P18669 | Phosphoglycerate mutase 1 | 376 | RPL17 |
| P19623 | Spermidine synthase | 377 | VCL |
| Q5T985 | Inter-alpha-trypsin inhibitor heavy chain H2 | 378 | ITIH2 |
| P19827 | Inter-alpha-trypsin inhibitor heavy chain H1 | 379 | ITIH1 |
| P20340 | Isoform 2 of Ras-related protein Rab-6A | 380 | RAB6A |
| P20618 | Proteasome subunit beta type-1 | 381 | PSMB1 |
| P20742 | Cation-dependent mannose-6-phosphate receptor | 382 | M6PR |
| P21520 | Pregnancy zone protein | 383 | PZP |
| Protein Name | Gene ID | Expression Value |
|--------------|---------|------------------|
| Collagen alpha-1(V) chain | COL5A1 | 394 |
| Filamin-A | FLNA | 397 |
| Cytoplasmic aconitate hydratase | ACO1 | 398 |
| S-nucleotidase | NTSE | 399 |
| Biglycan | BGN | 401 |
| Tetraspanin | CD9 | 402 |
| Trifunctional purine biosynthetic protein adenosine-3 | GART | 403 |
| Multifunctional protein ADE2 | PAICS | 404 |
| Isoform 2 of Ubiquitin-like modifier-activating enzyme 1 | UBA1 | 405 |
| Nucleoside diphosphate kinase B | NME2 | 406 |
| Heterogeneous nuclear ribonucleoproteins A2/B1 | HNRNPA2B1 | 407 |
| Fibulin-1 | FBLN1 | 408 |
| Isoform Alpha-6X2A of Integrin alpha-6 | ITGA6 | 409 |
| Splicing factor, proline- and glutamine-rich | SFPQ | 410 |
| Tubulin gamma-1 chain | TUBG1 | 411 |
| Isoform 2 of Tryptophan--tRNA ligase, cytoplasmic | WARS | 412 |
| Adenosylhomocysteinase | AHCY | 413 |
| Cofilin-1 | CFL1 | 414 |
| Ribonucleoside-diphosphatase reductase large subunit | RRM1 | 415 |
| Elongation factor 1-beta | EEF1B2 | 416 |
| Isoform 4 of Tenascin | TNC | 417 |
| P25398  | 40S ribosomal protein S12 | 428 | RPS12     |
|--------|--------------------------|-----|-----------|
| P25705 | Isoform 2 of ATP synthase subunit alpha, mitochondrial | 429 | ATP5F1A   |
| P25786 | Proteasome subunit alpha type-1 | 430 | PSMA1     |
| P25788 | Isoform 2 of Proteasome subunit alpha type-3 | 432 | PSMA3     |
| P26639 | Threonine--tRNA ligase, cytoplasmic | 438 | TARS      |
| P26640 | Valine--tRNA ligase | 439 | VARS      |
| P26641 | Elongation factor 1-gamma | 440 | EEF1G     |
| P27348 | Proteasome subunit alpha type-3 | 448 | PSMA5     |
| NaN    | Proteasome subunit beta type-5 | 450 | PSMB5     |
| P28066 | Proteasome subunit alpha type-5 | 451 | MAPK1     |
| P29144 | Tripeptidyl-peptidase 2 | 452 | TPP2      |
| P29317 | Ephrin type-A receptor 2 | 453 | EPHA2     |
| P29401 | Transketolase | 455 | TKT       |
| P30041 | Peroxiredoxin-6 | 458 | PRDX6     |
| Gene Symbols | Gene Description                                                                 | Accession Number | Score |
|--------------|----------------------------------------------------------------------------------|------------------|-------|
| RPL12        | 60S ribosomal protein L12                                                        | P30050           | 460   |
| PPP2R1A      | Serine/threonine-protein phosphatase 2A 65 kDa regulatory subunit A alpha isoform | P30153           | 461   |
| NMT1         | Isoform Short of Glycylpeptide N-tetradecanoyltransferase 1                      | P30419-2         | 462   |
| HLA-B        | HLA class I histocompatibility antigen, B-35 alpha chain                          | P30501           | 463   |
| HLA-C        | HLA class I histocompatibility antigen, Cw-2 alpha chain                          | P30685           | 464   |
| SRI          | Sorcin                                                                           | P30717           | 465   |
| SLC7A1       | High affinity cationic amino acid transporter 1                                   | P30825           | 466   |
| MAT2A        | Isoform 2 of S-adenosylmethionine synthase isoform type-2                         | P31153-2         | 471   |
| DNAJA1       | Isoform 2 of DnaJ homolog subfamily A member 1                                    | P31689-2         | 473   |
| ATIC         | Bifunctional purine biosynthesis protein PURH                                    | P31939           | 474   |
| HNRNPH1      | Heterogeneous nuclear ribonucleoprotein H                                         | P31946-2         | 475   |
| YWHAB        | Isoform Short of 14-3-3 protein beta/alpha                                       | P31948           | 476   |
| STIP1        | Stress-induced-phosphoprotein 1                                                  | P31949           | 477   |
| S100A11      | Protein S100-A11                                                                 | P31950           | 478   |
| RPL9         | 60S ribosomal protein L9                                                          | P32969           | 480   |
| KIF5B        | Kinesin-1 heavy chain                                                            | P33176           | 481   |
| MAN1A1       | Mannosyl-oligosaccharide 1,2-alpha-mannosidase IA                                | P33908           | 482   |
| Protein ID | Description                                                                 | Expression | Accession | Gene Symbol | Protein Unique ID |
|-----------|------------------------------------------------------------------------------|------------|-----------|-------------|------------------|
| P34896-2  | Isoform 2 of Serine hydroxymethyltransferase, cytosolic                      | 485        | SHMT1     |             |                  |
| P34897-3  | Isoform 3 of Serine hydroxymethyltransferase, mitochondrial                  | 486        | SHMT2     |             |                  |
| P35052    | Glypican-1                                                                   | 488        | GPC1      |             |                  |
| P35579    | Keratin, type I cytoskeletal 9                                              | 493        | KRT9      |             |                  |
| P35580    | Myosin-10                                                                    | 497        | MYH10     |             |                  |
| P35613-2  | Isoform 3 of Basigin subunit beta                                           | 498        | COPB2     |             |                  |
| P35625    | Metalloproteinase inhibitor 3                                               | 500        | TIMP3     |             |                  |
| P35908    | Keratin, type II cytoskeletal 2 epidermal                                    | 502        | KRT2      |             |                  |
| P35858    | Insulin-like growth factor-binding protein complex acid labile subunit      | 501        | IGFALS    |             |                  |
| P35998    | 26S proteasome regulatory subunit 7                                          | 503        | PSMC2     |             |                  |
| P36578    | 60S ribosomal protein L4                                                     | 505        | RPL4      |             |                  |
| P36871    | Phosphoglucomutase-1                                                         | 506        | PGM1      |             |                  |
| P37802    | Pigment epithelium-derived factor                                            | 507        | SERPINF1  |             |                  |
| P37837    | Transaldolase                                                                | 508        | TALDO1    |             |                  |
| P38606-2  | Isoform 2 of V-type proton ATPase catalytic subunit A                        | 510        | ATP6V1A   |             |                  |
| P38646    | Stress-70 protein, mitochondrial                                            | 511        | HSPA9     |             |                  |
| Gene Symbol | Description | Normalized Expression | Log2 Fold Change | p-value | Gene Symbol | Description | Normalized Expression | Log2 Fold Change | p-value |
|-------------|-------------|----------------------|-----------------|---------|-------------|-------------|----------------------|-----------------|---------|
| P39019      | 40S ribosomal protein S19 | 26.5053 | 29.6047 | 0.0012 | P39023      | 60S ribosomal protein L3 | 29.3057 | 30.6157 | 0.0001 |
| RPS19       | Collagen alpha-1(XV) chain | 26.3312 | 27.6362 | 0.0003 | RPL3        | T-complex protein 1 subunit zeta | 25.88 | 27.19 | 0.0004 |
| P39023      | Isoform 3 of Collagen alpha-1(XVIII) chain | 28.2874 | 30.5924 | 0.0002 | RPS19       | 60S ribosomal protein L13a | 27.9578 | 30.2667 | 0.0001 |
| P39060      | Isoform 3 of Signal transducer and activator of transcription 3 | 26.1523 | 28.5573 | 0.0003 | STAT1       | Cell surface glycoprotein MUC18 | 28.3116 | 30.7278 | 0.0003 |
| RPL13A      | 40S ribosomal protein S27-like | 29.9578 | 32.3628 | 0.0002 | WNT5A       | Glycine--tRNA ligase | 28.8708 | 31.2758 | 0.0001 |
| P40227      | T-complex protein 1 subunit zeta | 26.6157 | 28.9207 | 0.0002 | WNT5A       | 40S ribosomal protein L35 | 29.5327 | 31.9477 | 0.0003 |
| P40429      | Isoform 3 of Signal transducer and activator of transcription 3 | 26.2297 | 28.5347 | 0.0002 | WNT5A       | Platelet-activating factor acetylhydrolase IB subunit alpha | 28.7188 | 31.1338 | 0.0003 |
| P40763      | Isoform 3 of Signal transducer and activator of transcription 3 | 26.4224 | 28.7274 | 0.0002 | WNT5A       | Cell surface glycoprotein MUC18 | 29.5327 | 32.0477 | 0.0002 |
| P41091      | Signal transducer and activator of transcription 3 | 26.4151 | 28.7201 | 0.0002 | WNT5A       | Nicotinamide phosphoribosyltransferase | 30.1993 | 32.6143 | 0.0003 |
| P41221      | Signal transducer and activator of transcription 3 | 26.2587 | 28.5537 | 0.0002 | WNT5A       | 26S proteasome regulatory subunit 6B | 25.4744 | 27.8894 | 0.0003 |
| P41250      | Signal transducer and activator of transcription 3 | 26.5287 | 28.8237 | 0.0002 | STAT1       | Nicotinamide phosphoribosyltransferase | 28.7188 | 31.1338 | 0.0003 |
| P41252      | Signal transducer and activator of transcription 3 | 26.0537 | 28.3537 | 0.0002 | STAT1       | 26S proteasome regulatory subunit 6B | 29.5327 | 32.0477 | 0.0002 |
| P42224      | Signal transducer and activator of transcription 3 | 25.5030 | 27.8080 | 0.0002 | STAT1       | Nicotinamide phosphoribosyltransferase | 30.1993 | 32.6143 | 0.0003 |
| P42766      | Signal transducer and activator of transcription 3 | 25.7544 | 28.0594 | 0.0002 | STAT1       | 26S proteasome regulatory subunit 6B | 29.5327 | 32.0477 | 0.0002 |
| P43034      | Signal transducer and activator of transcription 3 | 25.9783 | 28.2833 | 0.0002 | STAT1       | Nicotinamide phosphoribosyltransferase | 30.1993 | 32.6143 | 0.0003 |
| P43121      | Signal transducer and activator of transcription 3 | 25.7544 | 28.0594 | 0.0002 | STAT1       | 26S proteasome regulatory subunit 6B | 29.5327 | 32.0477 | 0.0002 |
| P43686      | Signal transducer and activator of transcription 3 | 25.5030 | 27.8080 | 0.0002 | STAT1       | Nicotinamide phosphoribosyltransferase | 30.1993 | 32.6143 | 0.0003 |
| P43686      | Signal transducer and activator of transcription 3 | 25.7544 | 28.0594 | 0.0002 | STAT1       | 26S proteasome regulatory subunit 6B | 29.5327 | 32.0477 | 0.0002 |
| P43686      | Signal transducer and activator of transcription 3 | 25.5030 | 27.8080 | 0.0002 | STAT1       | Nicotinamide phosphoribosyltransferase | 30.1993 | 32.6143 | 0.0003 |
| P43686      | Signal transducer and activator of transcription 3 | 25.7544 | 28.0594 | 0.0002 | STAT1       | 26S proteasome regulatory subunit 6B | 29.5327 | 32.0477 | 0.0002 |
| P43686      | Signal transducer and activator of transcription 3 | 25.5030 | 27.8080 | 0.0002 | STAT1       | Nicotinamide phosphoribosyltransferase | 30.1993 | 32.6143 | 0.0003 |
| P43686      | Signal transducer and activator of transcription 3 | 25.7544 | 28.0594 | 0.0002 | STAT1       | 26S proteasome regulatory subunit 6B | 29.5327 | 32.0477 | 0.0002 |
| P43686      | Signal transducer and activator of transcription 3 | 25.5030 | 27.8080 | 0.0002 | STAT1       | Nicotinamide phosphoribosyltransferase | 30.1993 | 32.6143 | 0.0003 |
| P43686      | Signal transducer and activator of transcription 3 | 25.7544 | 28.0594 | 0.0002 | STAT1       | 26S proteasome regulatory subunit 6B | 29.5327 | 32.0477 | 0.0002 |
| P43686      | Signal transducer and activator of transcription 3 | 25.5030 | 27.8080 | 0.0002 | STAT1       | Nicotinamide phosphoribosyltransferase | 30.1993 | 32.6143 | 0.0003 |
| P43686      | Signal transducer and activator of transcription 3 | 25.7544 | 28.0594 | 0.0002 | STAT1       | 26S proteasome regulatory subunit 6B | 29.5327 | 32.0477 | 0.0002 |
| P43686      | Signal transducer and activator of transcription 3 | 25.5030 | 27.8080 | 0.0002 | STAT1       | Nicotinamide phosphoribosyltransferase | 30.1993 | 32.6143 | 0.0003 |
| P43686      | Signal transducer and activator of transcription 3 | 25.7544 | 28.0594 | 0.0002 | STAT1       | 26S proteasome regulatory subunit 6B | 29.5327 | 32.0477 | 0.0002 |
| Gene ID   | Gene Symbol | Description                                                                 |
|----------|-------------|------------------------------------------------------------------------------|
| P46063   | ATP-dependent DNA helicase Q1                                      | 538 | RECLQ  |
| P46087-3 | Isoform 3 of Probable 28S rRNA (cytosine(4447)-C(5))-methyltransferase | 539 | NOP2  |
| P46459-2 | Isoform 2 of Vesicle-fusing ATPase                     | 541 | NSF    |
| P46776   | 60S ribosomal protein L27a                                     | 543 | RPL27A |
| P46779   | 60S ribosomal protein L28                                       | 546 | RPL28  |
| P46940   | 40S ribosomal protein S10                                       | 549 | RPS10  |
| P47755   | Ras GTPase-activating-like protein IQGAP1                     | 550 | IQGAP1 |
| P47897   | Isoform 2 of CD97 antigen                                      | 557 | CD97   |

**Table continued...**
| Protein Name | Protein Code | Description                                                                 | Gene ID | Protein ID |
|-------------|--------------|------------------------------------------------------------------------------|---------|------------|
| trimethylaminobutyraldehyde dehydrogenase | ALDH9A1 | 60S ribosomal protein L34 | 569 | RPL34 |
| Fatty acid synthase | FASN | 568 | 4 |
| T-complex protein 1 subunit gamma | CCT3 | 571 | 492 |
| Elongation factor Tu, mitochondrial | TUFM | 572 | 491 |
| Alanine--tRNA ligase, cytoplasmic | AARS | 574 | 495 |
| Serine--tRNA ligase, cytoplasmic | SARS | 575 | 496 |
| Thrombospondin-3 | THBS3 | 578 | 580 |
| Isoform 2 of Very long-chain specific acyl-CoA dehydrogenase, mitochondrial | ACADVL | 579 | 498 |
| Estrogen sulfotransferase | SULT1E1 | 581 | 500 |
| Isoform 2 of GMP synthase [glutamine-hydrolyzing] | GMPS | 582 | 501 |
| Matrix metalloproteinase-14 | MMP14 | 583 | 502 |
| Rab GDP dissociation inhibitor beta | GDI2 | 584 | 503 |
| Serpin H1 | SERPINH1 | 585 | 504 |
| Vasodilator-stimulated phosphoprotein | VASP | 587 | 505 |
| Isoform 3 of Dynamin-2 | DNM2 | 588 | 506 |
| T-complex protein 1 subunit theta | CCT8 | 590 | 507 |
| T-complex protein 1 subunit delta | CCT4 | 591 | 508 |
| Ras-related protein Rab-5C | RAB5C | 592 | 509 |
| Ras-related protein Rab-7a | RAB7A | 593 | 510 |
| Galactokinase | GALK1 | 594 | 511 |
|   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|
| 28.109 | 28.0802 | 28.0858 | 28.3583 | 28.6395 | 28.9477 | 24.4 | 37.025 | PS1665 | 26S proteasome non-ATPase regulatory subunit 7 | 595 | PSMD7 |
| 24.8612 | 25.0865 | 24.9858 | 25.7971 | 25.2922 | 25.7627 | 17.4 | 37.029 | PS1991-2 | Isoform 2 of Heterogeneous nuclear ribonucleoprotein A3 | 599 | HNRNPA3 |
| 28.651 | 28.4904 | 28.6442 | 28.6527 | 28.5874 | 28.2004 | 21.9 | 51.872 | PS2209-2 | Isoform 2 of 6-phosphogluconate dehydrogenase, decarboxylating | 600 | PGD |
| NaN | NaN | NaN | 26.3475 | 26.3498 | 26.7783 | 45.5 | 33.834 | B4DK69 | Aldo-keto reductase family 1 member C2 | 603 | AKR1C2 |
| 28.6992 | 28.5779 | 28.6467 | 29.2373 | 28.5187 | 27.6172 | 29.4 | 32.922 | PS2907 | F-actin-capping protein subunit alpha-1 | 604 | CAPZB1 |
| 29.7791 | 29.742 | 29.829 | 29.9901 | 29.9495 | 29.717 | 37.8 | 120.84 | PS3396 | ATP-citrate synthase | 606 | ACLY |
| 27.7895 | 28.0447 | 28.1204 | 28.3205 | 28.0897 | 28.0536 | 21.6 | 107.14 | PS3618 | Coatamer subunit beta | 607 | COPB1 |
| 29.2717 | 29.0581 | 29.1479 | 29.757 | 29.2637 | 29.1795 | 24.3 | 138.34 | PS3621 | Coatamer subunit alpha | 608 | COPA |
| 27.5504 | 27.9214 | 28.1485 | 27.8653 | 27.5117 | 26.7155 | 10.6 | 51.853 | PS3634 | Dipetidyl peptidase 1 | 609 | CTSC |
| 27.7529 | 27.8177 | 28.0862 | 28.277 | 27.9262 | 27.897 | 19.5 | 75.378 | PS4136 | Arginine-acceptor tRNA ligase, cytoplasmic | 612 | RARS |
| 25.6165 | 25.3906 | 25.6101 | 26.359 | 25.9038 | 25.511 | 9.8 | 51.086 | A6NJA2 | Ubiquitin carboxyl-terminal hydrolase 14 | 615 | USP14 |
| 26.7416 | 26.8937 | 26.7852 | 28.0552 | 27.6873 | 27.8942 | 29.7 | 31.512 | PS4709 | Sodium/potassium-transporting ATPase subunit beta-3 | 616 | ATP1B3 |
| 28.0211 | 27.8094 | 28.0121 | 27.9993 | 27.6116 | 27.7251 | 11.6 | 107.78 | PS5060-3 | Isoform 3 of Exportin-2 | 618 | CSE1L |
| 29.5972 | 29.6643 | 29.2225 | 30.1284 | 30.0781 | 30.0645 | 34 | 89.321 | PS5072 | Transitional endoplasmic reticulum ATPase | 619 | VCP |
| 25.9902 | 25.5092 | 26.7826 | 28.1634 | 27.1092 | 26.6352 | 7.1 | 28.648 | PS5083 | Microfibril-associated glycoprotein 4 | 620 | MFAP4 |
| 28.1363 | 28.0138 | 28.0351 | 28.6024 | 28.2712 | 27.9094 | 28.7 | 34.17 | HOYHC3 | Nucleosome assembly protein 1-like 1 (Fragment) | 621 | NAP1L1 |
| 29.1431 | 29.1099 | 29.541 | 29.1034 | 29.2873 | 29.3143 | 25.2 | 34.08 | PS5263-3 | Isoform 3 of Adenosine kinase | 623 | ADK |
| 26.7728 | 26.6518 | 26.8258 | 27.0664 | 26.831 | 26.9847 | 28 | 35.54 | PS5735 | Protein SEC13 homolog | 625 | SEC13 |
| 27.62 | 27.6005 | 27.8475 | 27.9566 | 28.0444 | 27.9525 | 18.1 | 92.48 | PS5884 | Eukaryotic translation initiation factor 3 subunit B | 627 | EIF3B |
| P56192 | Methionine–tRNA ligase, cytoplasmic | 628 | MARS |
|--------|-------------------------------------|-----|------|
| P56537 | Eukaryotic translation initiation factor 6 | 629 | EIF6 |
| P58166 | Inhibin beta E chain | 630 | INHBE |
| P59998 | Actin-related protein 2/3 complex subunit 4 | 632 | ARPC4 |
| P60174 | Isoform 2 of Triosephosphate isomerase | 634 | TPI1 |
| P60537 | Eukaryotic translation initiation factor 6 | 636 | EIF3E |
| P60709 | Actin, cytoplasmic 1 | 638 | ACTB |
| P60842 | Eukaryotic initiation factor 4A | 639 | PRPS1 |
| P60900 | Proteasome subunit alpha type-6 | 641 | SMAP6 |
| P60903 | Protein S100A10 | 643 | S100A10 |
| P60953 | Cell division control protein 42 homolog | 644 | CDC42 |
| P61006 | Ras-related protein Rab-8A | 646 | RAB8A |
| P61019 | Ras-related protein Rab-2A | 647 | RAB2A |
| P61081 | NEDD8-conjugating enzyme Ubc12 | 649 | UBE2M |
| P61158 | Actin-related protein 3 (Fragment) | 650 | RAB14 |
| P61160 | Actin-related protein 2 | 652 | ACTR2 |
| P84077 | ADP-ribosylation factor 1 | 654 | ARF1 |
|       | 24.9344 | 25.0632 | 24.9852 | 25.0151 | 25.0762 | 3.7 | 67.314 | P61221 | ATP-binding cassette subfamily E member 1 | 655 | ABCE1 |
|-------|---------|---------|---------|---------|---------|-----|--------|--------|------------------------------------------|-----|-------|
| 31.7058 | 31.6736 | 31.9024 | 31.8446 | 31.9526 | 31.5922 | 46.7 | 18.778 | P61224-3 | Isoform 3 of Ras-related protein Rap-1b | 656 | RAP1B |
| 29.9534 | 30.0738 | 30.2185 | 30.4044 | 30.3302 | 30.3834 | 47.5 | 25.608 | D6RG13 | 40S ribosomal protein S3a (Fragment) | 657 | RPS3A |
| 26.9719 | 27.6497 | 27.6138 | 28.1293 | 28.1958 | 28.1686 | 36.4 | 12.63 | J3QRI7 | 60S ribosomal protein L26 (Fragment) | 658 | RPL26 |
| 29.6081 | 29.4672 | 29.3704 | 29.9591 | 30.0766 | 30.2666 | 41.2 | 24.146 | P61313 | 60S ribosomal protein L15 | 660 | RPL15 |
| 29.0607 | 28.9253 | 29.1614 | 29.2111 | 29.2462 | 29.1896 | 36   | 15.798 | P61353 | 60S ribosomal protein L27 | 661 | RPL27 |
| 25.4113 | 25.9322 | 25.618  | 26.0452 | 26.2503 | 26.9101 | 35   | 6.793  | M0R0A1 | 60S ribosomal protein L37a | 662 | RPL37A |
| 28.5549 | 27.6099 | 28.422  | 28.5289 | 27.8483 | 27.8373 | 36.8 | 21.768 | P61586 | Transforming protein RhoA | 663 | RHOA  |
| 28.2447 | 28.2364 | 27.4403 | 28.0474 | 28.1852 | 28.3559 | 35.3 | 13.714 | P61769 | Beta-2-microglobulin | 664 | B2M   |
| 28.456  | 29.1832 | 29.2078 | 29.4818 | 28.8061 | 28.5458 | 56.7 | 14.478 | P61970 | Nuclear transport factor 2 | 666 | NUTF2 |
| 28.158  | 28.1644 | 28.2008 | 27.9814 | 28.1096 | 28.2427 | 17.4 | 41.807 | Q5T6W2 | Heterogeneous nuclear ribonucleoprotein K (Fragment) | 667 | HNRNPK |
|        | 25.6609 | 25.3959 | 25.7052 | 25.3092 | 25.0021 | 19.8 | 28.302 | P61981 | 14-3-3 protein gamma | 668 | YWHAG |
| 26.0291 | 25.9937 | 25.9115 | 25.7227 | 25.5034 | 25.44  | 13.2 | 22.462 | B7Z317 | Tetraspanin | 669 | TSPAN5 |
| NaN    | 26.795  | 26.689  | 26.5146 | 26.6488 | 27.5668 | 14.8 | 19.405 | A0A2R8Y62 | 40S ribosomal protein S7 (Fragment) | 670 | RPS7  |
| 28.8101 | 28.8536 | 29.0445 | 29.08  | 28.8765 | 28.5915 | 29.7 | 37.512 | P62136 | Serine/threonine-protein phosphatase PP1-alpha catalytic subunit | 671 | PPP1CA |
| 27.5894 | 27.6763 | 27.3602 | 28.1686 | 28.0755 | 28.1533 | 23.4 | 49.184 | P62191 | 26S proteasome regulatory subunit 4 | 673 | PSMC1 |
| 27.5237 | 27.4894 | 27.1114 | 27.6144 | 27.8466 | 27.9358 | 34.9 | 44.784 | P62195-2 | Isoform 2 of 26S proteasome regulatory subunit 8 | 674 | PSMC5 |
| 31.0738 | 31.002  | 31.084  | 31.4098 | 31.7101 | 32.0248 | 55.3 | 24.205 | P62241 | 40S ribosomal protein S8 | 675 | RPS8  |
| 30.1263 | 30.1001 | 30.2126 | 30.5328 | 30.5267 | 30.5415 | 50   | 16.445 | P62249 | 40S ribosomal protein S16 | 676 | RPS16 |
| 27.4325 | 27.6788 | 27.5574 | 27.6393 | 27.6613 | 27.235  | 30.2 | 29.174 | P62258 | 14-3-3 protein epsilon | 677 | YWHAE |
| 27.9236 | 27.619  | 27.7324 | 27.4741 | 27.8016 | 28.1082 | 36.7 | 16.159 | A0A2R8Y81 | 40S ribosomal protein S14 (Fragment) | 678 | RPS14 |
| 29.1437 | 28.8206 | 28.7278 | 28.5806 | 28.9281 | 29.1964 | 30.1 | 15.807 | P62266 | 40S ribosomal protein S23 | 679 | RPS23 |
|     | 28.63 | 28.5238 | 28.3029 | 28.8307 | 28.6291 | 29.561 | 40.8 | 17.718 | P62269 | 40S ribosomal protein S18 | 680 | RPS18 |
|-----|--------|---------|---------|---------|---------|--------|------|--------|--------|--------------------------|-----|------|
| 28.8333 | 29.0465 | 28.6502 | 29.6212 | 29.6301 | 29.2611 | 35.8 | 17.222 | P62277 | 40S ribosomal protein S13 | 682 | RPS13 |
| 30.0969 | 30.0957 | 30.0057 | 30.0558 | 30.774 | 30.8657 | 56.3 | 18.431 | P62280 | 40S ribosomal protein S11 | 683 | RPS11 |
| 26.8843 | 26.6591 | 27.1017 | 26.7959 | 27.3607 | 27.0636 | 32.6 | 20.082 | P62330 | ADP-ribosylation factor 6 | 688 | ARF6 |
| 27.6903 | 28.3006 | 28.2263 | 28.7144 | 28.6772 | 28.7294 | 44 | 44.172 | P62333 | 26S proteasome regulatory subunit 10B | 689 | PSMC6 |
| 30.063 | 29.5709 | 29.4 | 29.956 | 29.9562 | 30.2383 | 40.2 | 29.995 | P62424 | 60S ribosomal protein L7a | 690 | RPL7A |
| 30.1904 | 30.4836 | 30.5208 | 30.5949 | 30.8263 | 30.8327 | 53.6 | 29.597 | P62701 | 40S ribosomal protein S4, X isoform | 691 | RPS4X |
| 32.485 | 32.4841 | 32.5027 | 32.4596 | 32.014 | 31.6828 | 54.1 | 42.009 | P62736 | Actin, aortic smooth muscle | 692 | ACTA2 |
| 26.4301 | 26.1236 | 25.8986 | 26.2689 | 26.6726 | 26.7929 | 47.1 | 7.9232 | K7EMA7 | 60S ribosomal protein L23a | 693 | RPL23A |
| 27.9793 | 28.5587 | 28.1283 | 28.3462 | 28.366 | 28.4419 | 17.4 | 24.968 | A2A3R5 | 40S ribosomal protein S6 | 694 | RPS6 |
| 34.7134 | 34.5192 | 34.7173 | 34.8097 | 35.3077 | 34.9857 | 54.4 | 11.367 | P62805 | Histone H4 | 695 | HIST1H4A |
| 29.3751 | 29.0136 | 29.376 | 29.2926 | 29.2356 | 29.2418 | 49.7 | 19.018 | E7END7 | Ras-related protein Rab-1A | 696 | RAB1A |
| 31.451 | 30.9265 | 31.3813 | 31.4937 | 31.515 | 31.3257 | 43.5 | 24.423 | P62826 | GTP-binding nuclear protein Ran | 697 | RAN |
| 27.2266 | 26.933 | 26.9204 | 27.1835 | 27.2343 | 27.3526 | 48.4 | 9.6694 | C9JD32 | 60S ribosomal protein L23 (Fragment) | 698 | RPL23 |
| 25.6933 | 26.3823 | 26.257 | 26.3478 | 26.8073 | 27.3595 | 46.4 | 12.99 | K7EM56 | 40S ribosomal protein S15 | 700 | RPS15 |
| 27.9179 | 27.6995 | 28.0215 | 27.9495 | 28.7881 | 28.6973 | 20.8 | 15.069 | P62847-2 | Isoform 2 of 40S ribosomal protein S24 | 701 | RPS24 |
| 27.8674 | 27.7214 | 27.5389 | 27.5582 | 26.0128 | 27.7917 | 28 | 13.742 | P62851 | 40S ribosomal protein S25 | 702 | RPS25 |
| 29.2329 | 29.0324 | 29.1317 | 28.8748 | 29.554 | 29.6365 | 37.4 | 13.015 | P62854 | 40S ribosomal protein S26 | 703 | RPS26 |
| 28.9548 | 28.8298 | 28.9818 | 29.602 | 29.2065 | 28.9532 | 33.1 | 36.297 | P62873-2 | Isoform 2 of Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-1 | 705 | GNB1 |
| 27.6501 | 26.8986 | 27.1007 | 28.0043 | 27.6975 | 27.1226 | 25.3 | 37.331 | P62879 | Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-2 | 706 | GNB2 |
| 28.7343 | 27.9276 | 28.0826 | 28.3037 | 28.5563 | 28.5891 | 58.8 | 12.656 | ESR199 | 60S ribosomal protein L30 (Fragment) | 707 | RPL30 |
| 27.5182 | 27.4804 | 27.4293 | 27.3546 | 27.7085 | 26.9897 | 29.5 | 24.831 | P62906 | 60S ribosomal protein L10a (Fragment) | 709 | RPL10A |
| 28.9634 | 28.5853 | 28.5916 | 28.8169 | 28.9812 | 29.0417 | 41.4 | 15.616 | D3YT81 | 60S ribosomal protein L32 (Fragment) | 710 | RPL32 |
| Name                          | accession | Description                                                                 | Gene ID | Chromosome |
|-------------------------------|-----------|------------------------------------------------------------------------------|---------|------------|
| 60S ribosomal protein L11     | Q5VVC8    |                                                                                | 711     | 1          |
| 60S ribosomal protein L8      | E9PKZ0    | Peptidyl-prolyl cis-trans isomerase A                                         | 712     | 1          |
| Peptidyl-prolyl cis-trans isomerase A (Fragment) | E9PKZ0    |                                                                                | 713     | 1          |
| Ubiquitin-40S ribosomal protein S27a | P62979    |                                                                                | 715     | 1          |
| Isoform 3 of Transformer-2 protein homolog beta | P62995-3  |                                                                                | 716     | 1          |
| Ras-related C3 botulinum toxin substrate 1 | P63000    |                                                                                | 717     | 1          |
| AP-2 complex subunit beta     | A0A087WYD1|                                                                                | 718     | 1          |
| 14-3-3 protein zeta/delta     | P63104    |                                                                                | 719     | 1          |
| Dynein light chain 2, cytoplasmic | Q96FJ2    |                                                                                | 721     | 1          |
| 60S ribosomal protein L38     | J3KT73    |                                                                                | 722     | 1          |
| 40S ribosomal protein S21     | QBWVC2    |                                                                                | 723     | 1          |
| Eukaryotic translation initiation factor 5A (Fragment) | I3L397    |                                                                                | 724     | 1          |
| Receptor of activated protein C kinase 1 | P63244    |                                                                                | 725     | 1          |
| Serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform | P67775    |                                                                                | 727     | 1          |
| Nuclease-sensitive element-binding protein 1 | P67809    |                                                                                | 728     | 1          |
| Elongation factor 1-alpha 1  | P68104    |                                                                                | 730     | 1          |
| Tubulin alpha-4A chain        | P68366    |                                                                                | 732     | 1          |
| Tubulin beta-4B chain         | P68371    |                                                                                | 734     | 1          |
| Casein kinase II subunit alpha | P68402    |                                                                                | 735     | 1          |
| Platelet-activating factor acetylhydrolase IIB subunit beta | P68402    |                                                                                | 736     | 1          |
| Gene ID   | Gene Symbol | Description                                      | Value 1 | Value 2 | Value 3 | Value 4 | Value 5 | Value 6 | Value 7 | Value 8 |
|-----------|-------------|--------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| 34.5896   | 34.2797     | 34.3047 33.8402 34.6541 34.5576 25.8 14.914   |         |         |         |         |         |         |         |         |
| 31.1321   | 31.0129     | 31.4741 31.7515 33.7786 31.7567 36.7 15.998   |         |         |         |         |         |         |         |         |
| 34.2658   | 34.6107     | 34.5939 34.616 34.8988 34.5039 50.7 15.257   |         |         |         |         |         |         |         |         |
| 30.8879   | 31.1607     | 30.9945 30.8049 31.1044 31.0489 54.7 52.717   |         |         |         |         |         |         |         |         |
| 26.7676   | 26.1421     | 26.0373 26.3235 NaN NaN 8.5 23.341   |         |         |         |         |         |         |         |         |
| 29.3198   | 28.3307     | 29.1424 28.352 28.0483 29.4528 5.6 465.5    |         |         |         |         |         |         |         |         |
| 27.1432   | 27.1137     | 27.5936 27.6375 27.2021 27.1774 19.3 41.75   |         |         |         |         |         |         |         |         |
| 29.5591   | 29.3625     | 29.2673 29.679 29.6971 29.3366 24.5 48.607   |         |         |         |         |         |         |         |         |
| 27.8251   | 27.6876     | 27.6067 28.1963 28.3283 28.275 33.1 14.369   |         |         |         |         |         |         |         |         |
| 25.9723   | 25.3026     | 24.7604 24.645 25.3322 25.2311 16 12.469    |         |         |         |         |         |         |         |         |
| 27.8059   | 27.8484     | 27.6158 28.6341 28.6763 28.8048 25.9 23.134   |         |         |         |         |         |         |         |         |
| 28.8264   | 28.7619     | 27.8654 27.8609 27.9119 29.3177 7.9 468.83   |         |         |         |         |         |         |         |         |
| 36.0683   | 35.8074     | 36.0981 36.0562 36.3241 36.111 55.6 187.89   |         |         |         |         |         |         |         |         |
| 25.5545   | 25.628      | NaN 25.9001 25.6453 26.4327 9 21.493    |         |         |         |         |         |         |         |         |
| 27.0021   | 26.2147     | 26.2077 26.5355 26.1762 25.9807 6 36.229    |         |         |         |         |         |         |         |         |
| 27.6042   | 27.5444     | 27.7043 27.9033 27.6021 27.9784 17.3 80.648 |         |         |         |         |         |         |         |         |
| 26.4787   | 26.2897     | 26.1861 25.9254 26.3713 26.4315 44.4 15.371  |         |         |         |         |         |         |         |         |
| 27.3348   | 26.821      | 26.9179 27.245 27.0464 26.7593 17.9 51.83    |         |         |         |         |         |         |         |         |
| 27.6084   | 27.7862     | 28.0559 28.3231 27.5413 27.3483 18.5 57.293   |         |         |         |         |         |         |         |         |

**Summary:**
- The table lists various genes and their associated values, including histone H3 (Fragment), Hemoglobin subunit beta, Hemoglobin subunit alpha, Histone H3 (Fragment), etc.
- The values range from 737 to 25.8, indicating a wide range of expression levels.
- The table provides a comprehensive view of gene expression for different proteins.
| Gene Symbol 1 | Protein Name                                                                 | Gene Symbol 2 | Protein Name                                                                 |
|--------------|------------------------------------------------------------------------------|--------------|------------------------------------------------------------------------------|
| PFKP         | ATP-dependent 6-phosphofructokinase, platelet type                           | COL7A1       | Isoform 2 of Collagen alpha-1(VII) chain                                     |
| RPL18A       | 60S ribosomal protein L18a                                                    | MAP2K1       | Isoform 2 of Dual specificity mitogen-activated protein kinase kinase 1      |
| PLOD1        | Procollagen-lysine,2-oxoglutarate 5-dioxygenase 1                            | RELA         | Aldo-keto reductase family 1 member C1                                       |
| AKR1C1       | Aldo-keto reductase family 1 member C1                                        | YWHAH        | Serine/arginine-rich-splicing factor 11 (Fragment)                           |
| DNMT1        | Dynamin-1                                                                    | CAV1         | Inter-alpha-trypsin inhibitor heavy chain H3                                 |
| SRSF11       | Serine/arginine-rich-splicing factor 11 (Fragment)                           | ITIH3        | Isoform 2 of 60S ribosomal protein L18                                        |
| PRDX1        | Peroxiredoxin-1                                                             | RPL18        | Isoform 2 of 60S ribosomal protein L18                                        |
| LRP1         | Prolow-density lipoprotein receptor-related protein 1                         |              |                                                                               |

**Columns:** Gene Symbol 1, Gene Symbol 2, Protein Name, Gene Symbol 2, Protein Name
| Directory | Description | Accession | Length |
|-----------|-------------|-----------|--------|
| 28.3432   | 28.4769     | 28.4058   | 28.8774| 28.4092 | 28.3313 | 16.1 | 140.96 | Q08211 | ATP-dependent RNA helicase A | 793 | DHX9 |
| 26.0354   | 25.5586     | NaN       | 25.3451| 25.8498 | 25.5249 | 8.7 | 21.932 | C9HJ92 | Quinone oxidoreductase (Fragment) | 794 | CRYZ |
| 35.4374   | 35.5822     | 35.3634   | 35.2631| 34.7962 | 35.0113 | 46.5 | 65.33 | Q08380 | Galectin-3-binding protein | 795 | LGALS3BP |
| 34.0801   | 34.1329     | 33.8627   | 33.4464| 33.3959 | 33.8024 | 70.5 | 43.104 | Q08431 | Lactadherin | 796 | MFGE8 |
| 26.7015   | 26.7167     | 26.5706   | 26.807 | 26.658  | 26.9188 | 15.3 | 20.313 | AOA2R8Y48 | Leukocyte surface antigen CD47 (Fragment) | 797 | CD47 |
| 26.8097   | 27.5477     | 26.7338   | 26.2042| 26.1357 | 26.0736 | 13.7 | 18.394 | Q10589-2 | Isoform 2 of Bone marrow stromal antigen 2 | 798 | BST2 |
| 25.7234   | 25.7567     | 25.7807   | NaN    | NaN     | 25.4002 | 12.5 | 31.646 | AOA0U1RQ | EGF-containing fibulin-like extracellular matrix protein 1 (Fragment) | 799 | EFEMP1 |
| 26.7961   | 27.0696     | 27.0449   | 27.2996| 26.7199 | 26.4112 | 13.1 | 84.861 | B4DLR2 | Prolyl endopeptidase FAP | 802 | FAP |
| 26.3092   | 26.493      | 26.3286   | 26.6202| 26.5144 | 26.9051 | 18.6 | 26.76 | A8MU58 | Aminoacyl tRNA synthase complex-interacting multifunctional protein 2 | 807 | AIMP2 |
| 29.1628   | 29.3407     | 29.2738   | 29.4356| 29.6152 | 29.9251 | 27   | 100.2 | Q13200 | 26S proteasome non-ATPase regulatory subunit 2 | 808 | PSMD2 |
| 26.4348   | 26.5635     | 26.3812   | 26.8554| 26.8553 | 26.5764 | 7.4  | 79.473 | Q13263-2 | Isoform 2 of Transcription intermediary factor 1-beta | 809 | TRIM28 |
| 24.8585   | 25.2682     | 24.7956   | NaN    | NaN     | 24.9973 | 2.9  | 89.763 | Q13308-5 | Isoform 5 of Inactive tyrosine-protein kinase 7 | 811 | PTK7 |
| 27.6881   | 27.7428     | 28.1003   | 28.282 | 27.947  | 27.8624 | 33.2 | 36.501 | Q13347 | Eukaryotic translation initiation factor 3 subunit I | 813 | EIF3I |
| 31.3101   | 30.8741     | 31.3548   | 31.3804| 31.8043 | 31.5698 | 44.5 | 51.419 | Q13418 | Integrin-linked protein kinase | 815 | ILK |
| 28.4468   | 28.3164     | 28.6693   | 28.4873| 28.5593 | 28.7072 | 46.2 | 50.432 | Q13509 | Tubulin beta-3 chain | 817 | TUBB3 |
| 25.5783   | 25.5209     | 25.3487   | 25.6417| 25.5289 | 25.5209 | 8.3  | 55.102 | Q13547 | Histone deacetylase 1 | 818 | HDAC1 |
| NaN       | NaN         | 24.9675   | 24.9135| 24.7921 | 24.9717 | 14.9 | 29.666 | E9PKL9 | GDP-L-fucose synthase (Fragment) | 820 | TSTA3 |
| 27.6546   | 27.1683     | 27.0348   | 26.9431| 28.7772 | 28.5408 | 24.3 | 31.895 | Q13642-1 | Isoform 1 of Four and a half LIM domains protein 1 | 821 | FHL1 |
| 27.9014   | 28.495      | 28.2474   | 28.7202| 27.7307 | 28.1458 | 22.8 | 63.664 | Q13740-2 | Isoform 2 of CD166 antigen | 822 | ALCAM |
| 26.4598   | 26.5237     | 27.2014   | 26.8783| 27.0038 | 27.0209 | 19.8 | 48.825 | Q5STU3 | Spliceosome RNA helicase DDX39B | 823 | DDX39B |
| Gene Symbol | mRNA Name | Protein Name | Gene Symbol | mRNA Name | Protein Name |
|-------------|-----------|--------------|-------------|-----------|--------------|
| TUBB2A      | Tubulin beta-2A chain | 824 | TUBB2A      | Tubulin beta-2A chain | 824 |
| HNRNPD      | Heterogeneous nuclear ribonucleoprotein D0 (Fragment) | 825 | HNRNPD      | Heterogeneous nuclear ribonucleoprotein D0 (Fragment) | 825 |
| SCARB2      | Lysosome membrane protein 2 | 826 | SCARB2      | Lysosome membrane protein 2 | 826 |
| EIF3A       | Isoform 2 of Eukaryotic translation initiation factor 3 subunit A | 832 | EIF3A       | Isoform 2 of Eukaryotic translation initiation factor 3 subunit A | 832 |
| DYN1C1H1    | Cytoplasmic dynein 1 heavy chain 1 | 832 | DYN1C1H1    | Cytoplasmic dynein 1 heavy chain 1 | 832 |
| EIF4A2      | Isoform 2 of Protein-tyrosine kinase 2-beta | 835 | EIF4A2      | Isoform 2 of Protein-tyrosine kinase 2-beta | 835 |
| PTK2B       | Isoform 2 of Protein-tyrosine kinase 2-beta | 835 | PTK2B       | Isoform 2 of Protein-tyrosine kinase 2-beta | 835 |
| FLNC        | Isoform 2 of Filamin-C | 836 | FLNC        | Isoform 2 of Filamin-C | 836 |
| RBM39       | RNA-binding protein 39 (Fragment) | 839 | RBM39       | RNA-binding protein 39 (Fragment) | 839 |
| FAT1        | Proctocadherin Fat 1 | 840 | FAT1        | Proctocadherin Fat 1 | 840 |
| HABP2       | Isoform 2 of Hyaluronan-binding protein 2 | 841 | HABP2       | Isoform 2 of Hyaluronan-binding protein 2 | 841 |
| ITIH4       | Isoform 4 of Inter-alpha-trypsin inhibitor heavy chain H4 | 842 | ITIH4       | Isoform 4 of Inter-alpha-trypsin inhibitor heavy chain H4 | 842 |
| GANAB       | Isoform 2 of Neutral alpha-glucosidase AB | 843 | GANAB       | Isoform 2 of Neutral alpha-glucosidase AB | 843 |
| MVP         | Major vault protein | 845 | MVP         | Major vault protein | 845 |
| PTGR1       | Prostaglandin reductase 1 | 846 | PTGR1       | Prostaglandin reductase 1 | 846 |
| KPNB1       | Importin subunit beta-1 | 847 | KPNB1       | Importin subunit beta-1 | 847 |
| PSMD6       | 26S proteasome non-ATPase regulatory subunit 6 | 849 | PSMD6       | 26S proteasome non-ATPase regulatory subunit 6 | 849 |
|    |    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|----|
| 28.5675 | 28.6547 | 28.8081 | 29.3175 | 28.9662 | 28.709 | 40.2 | 36.94 | BSMCX3 | Septin-2 |
| NaN | 24.2731 | NaN | 24.5595 | 24.4931 | 24.6335 | 3.7 | 105.38 | Q15029-2 | Isoform 2 of 116 kDa U5 small nuclear ribonucleoprotein component |
| 27.4868 | 27.7385 | 27.7216 | 27.0066 | 26.8326 | 26.6204 | 29 | 17 | E5RIP4 | Zinc transporter ZIP14 (Fragment) |
| NaN | 26.7412 | 25.4703 | 24.6603 | 24.862 | 24.6845 | 41.5 | 87.253 | Q15063-3 | Isoform 3 of Periostin |
| 32.5532 | 32.1864 | 31.9703 | 30.6073 | 30.5456 | 30.8034 | 43.1 | 90.423 | Q15063-5 | Isoform 5 of Periostin |
| 28.1549 | 28.4467 | 27.937 | 24.6457 | 24.392 | 25.0413 | 23.6 | 47.972 | Q15113 | Procollagen C- endopeptidase enhancer 1 |
| 26.0111 | 25.9014 | 26.4394 | 25.8658 | 25.9927 | NaN | 1.1 | 531.78 | Q15185 | Poly(rC) - binding protein 1 |
| 28.5781 | 28.5282 | 28.6123 | 28.9471 | 29.1146 | 28.6252 | 41 | 16.476 | Q15185-4 | Isoform 4 of Prostaglandin E synthase 3 |
| NaN | 26.0176 | 25.8356 | 26.2696 | 25.9282 | 25.6989 | 18.6 | 29.508 | C9JYS8 | Non-POU domain-containing octamer-binding protein (Fragment) |
| 27.2439 | 27.2858 | 27.0921 | 27.444 | 27.277 | 27.4638 | 15.2 | 37.497 | Q15365 | Poly(rC)-binding protein 1 |
| 27.3382 | 27.3639 | 27.4521 | 27.8542 | 27.5078 | 27.7472 | 33.8 | 16.997 | Q15365 | Poly(rC)-binding protein 2 (Fragment) |
| NaN | NaN | 25.4807 | 25.4019 | 25.4017 | 55.4 | 6.968 | R4GMY8 | Elongin-C |
| 27.2803 | 26.7078 | 27.5051 | 26.8862 | 27.4675 | 26.6799 | 22.3 | 57.455 | Q15389-2 | Isoform 2 of Angiopoietin-1 |
| 25.4359 | 25.4388 | 25.4588 | 26.7519 | 25.3579 | 25.5993 | 5.8 | 135.58 | Q15393 | Splicing factor 3B subunit 3 |
| NaN | 23.8773 | 24.8584 | 23.8956 | 24.9132 | 24.9677 | 6.7 | 25.545 | Q15404-2 | Isoform 2 of Ras suppressor protein 1 |
| 27.3229 | 27.5838 | 27.3514 | 27.6826 | 26.794 | 26.7557 | 12 | 33.252 | Q15493 | Regucalcin |
| 29.5758 | 29.951 | 30.0958 | 29.9124 | 29.7046 | 29.1382 | 29.9 | 30.691 | Q15555-4 | Isoform 4 of Microtubule-associated protein RP/EB family member 2 |
| 33.6561 | 33.3443 | 33.6485 | 32.9595 | 32.7274 | 33.0485 | 52.3 | 74.68 | Q15582 | Transforming growth factor-beta-induced protein ig-h3 |
| 29.8899 | 29.6996 | 29.9982 | 29.6894 | 29.1312 | 29.1011 | 11.6 | 56.598 | Q15758 | Neutral amino acid transporter B(0) |
| 25.9868 | 26.5013 | 26.0803 | 26.2386 | 26.2464 | 26.2684 | 33 | 11.309 | Q15836 | Vesicle-associated membrane protein 3 |
| 28.5222 | 28.3696 | 28.7461 | 28.9588 | 28.5892 | 28.4228 | 39.9 | 24.488 | Q15907 | Ras-related protein Rab-11B |
| 877 | RAB11B | 851 | EFTUD2 | 855 | POSTN | 856 | POSTN | 858 | PCOLCE |
| Gene ID   | Start | End  | Sift3 Score | Name                                      | Description                                                      | Expression | GO ID |
|----------|-------|------|-------------|-------------------------------------------|------------------------------------------------------------------|------------|-------|
| 28.0366  | 27.642| 27.8131| 28.6001     | 27.869 | 27.7615 | 26.4 | 48.715 | E7E533 | Septin-7 | 879 | SEPTIN7 |
| 27.5017  | 26.7965| 26.3568| 24.5023     | 25.3696 | NaN     | 24.4 | 28.86 | Q16270-2 | Isoform 2 of Insulin-like growth factor-binding protein 7 | 881 | IGFBP7 |
| 29.1681  | 28.9883| 29.2556| 29.3691     | 29.2741 | 28.375 | 20.8 | 86.254 | Q16394 | Exostosin-1 | 882 | EXT1 |
| 26.3842  | 26.0719| 26.6791| 26.7493     | 26.4216 | 26.7176 | 12.8 | 51.311 | Q16401-2 | Isoform 2 of 26S proteasome non-ATPase regulatory subunit 5 | 883 | PSMD5 |
| 30.0892  | 29.8069| 29.9549| 30.4889     | 29.8485 | 29.7139 | 53  | 58.162 | Q16555-2 | Isoform 2 of Dihydropyrimidinase-related protein 2 | 885 | DPYSL2 |
| 27.1383  | 26.723 | 26.8921| 26.9791     | 26.7763 | 26.8196 | 16.3 | 46.938 | E9PC52 | Histone-binding protein RBBP7 | 887 | RBBP7 |
| NaN      | 25.699 | NaN   | 25.9173     | 26.0713 | 25.6986 | 24.2 | 15.257 | Q16629-3 | Isoform 3 of Serine/arginine-rich splicing factor 7 | 889 | SRSF7 |
| 28.8345  | 28.7745| 28.82  | 28.4957     | 28.46  | 28.3623 | 26.6 | 54.529 | Q16658 | Fascin | 891 | FSCN1 |
| 33.8775  | 32.9567| 32.3127| 33.783      | 32.7138 | 33.9404 | 49.6 | 13.988 | Q16777 | Histone H2A type 2-C | 894 | HIST2H2AC |
| 26.2553  | 25.4368| 25.2273| 25.7779     | 26.4002 | 26.4723 | 2.2  | 84.621 | Q16853 | Membrane primary amine oxidase | 895 | AOC3 |
| 28.7239  | 28.6061| 28.7174| 28.5193     | 27.7176 | 27.6737 | 18.4 | 78.921 | Q32P28-4 | Isoform 4 of Prolyl 3-hydroxylase 1 | 899 | P3H1 |
| 29.1398  | 29.1774| 28.6571| 29.7527     | 29.9625 | 29.8599 | 24.5 | 49.775 | Q3ZCM7 | Tubulin beta-8 chain | 900 | TUBB8 |
| 26.4073  | 26.7773| 26.984 | 27.063      | 26.8076 | 26.9447 | 19.8 | 18.986 | Q3CW2 | Galectin-related protein | 901 | LGALSL |
| 25.8374  | 25.7659| 26.0998| 25.7665     | NaN    | 26.0186 | 13.8 | 26.439 | Q53H96-2 | Isoform 2 of Pyrroline-5-carboxylate reductase 3 | 902 | PYCR3 |
| 27.8173  | 27.7659| 27.7783| 28.1705     | 27.7376 | 27.3727 | 18.6 | 44.348 | Q58FF8 | Putative heat shock protein HSP 90-beta 2 | 903 | HSP90AB2P |
| 25.4098  | 25.3711| NaN   | 25.7375     | 25.7458 | 25.6294 | 9.4  | 61.206 | Q5SS5J | Heterochromatin protein 1-binding protein 3 | 905 | HP1BP3 |
| 29.2413  | 28.8749| 28.7634| 29.2838     | 29.9376 | 29.7366 | 9.1  | 571.85 | QST4S7-3 | Isoform 3 of E3 ubiquitin-protein ligase UBR4 | 906 | UBR4 |
| 26.5033  | 26.8552| 26.621 | 27.318      | 26.7784 | 26.9749 | 14.9 | 41.767 | AOAOC4DG | CD276 antigen | 909 | CD276 |
| 27.3914  | 28.4102| 27.9271| 26.05       | NaN    | NaN    | 11.2 | 83.998 | Q68BL8 | Olfactomedin-like protein 2B | 910 | OLFLML2B |
| Start | End | Fold Change | Gene Description                                                                 | Accession |
|-------|-----|-------------|----------------------------------------------------------------------------------|-----------|
| 25.1554 | 25.1606 | 25.6727 | 24.9015 | 24.844 | 10.5 | 34.596 | Q96GK7 | Fumarylacetoacetate hydrolase domain-containing protein 2A | 913 | FAHD2A |
| 27.2708 | 26.7877 | 25.7442 | 24.7668 | 24.7539 | 25.4804 | 4 | 250.53 | Q6UVK1 | Chondroitin sulfate proteoglycan 4 | 914 | CSPG4 |
| NaN | 23.8305 | 23.8911 | 23.7403 | 23.7406 | 2.1 | 152.66 | Q6YHK3-2 | Isoform 2 of CD109 antigen | 917 | CD109 |
| 27.7984 | 27.4283 | 27.4559 | 27.8718 | 27.9266 | 27.8785 | 5.8 | 282.86 | Q6ZNJ1-2 | Isoform 2 of Neurobeachin-like protein 2 | 918 | NBEAL2 |
| 26.1383 | 26.1464 | 25.9480 | 25.4531 | 24.8257 | 25.1652 | 14.9 | 24.486 | Q6ZUX7 | LHFPL tetraspan subfamily member 2 protein | 919 | LHFPL2 |
| 33.7980 | 33.4893 | 33.5135 | 34.0447 | 34.6089 | 34.3069 | 65 | 50.135 | Q71U36 | Tubulin alpha-1A chain | 921 | TUBA1A |
| 26.1907 | 26.5858 | 27.2837 | 27.0529 | 27.3490 | 26.5645 | 10.4 | 102 | Q7KZF4 | Staphylococcal nuclease domain-containing protein 1 | 924 | SND1 |
| 26.1951 | 26.3185 | 26.3075 | 26.6976 | 26.5710 | 26.3911 | 21.4 | 42.502 | Q7L2H7 | Eukaryotic translation initiation factor 3 subunit M | 925 | EIF3M |
| 25.9727 | NaN | 25.6644 | 26.1201 | 25.5849 | 25.5976 | 7.2 | 94.466 | Q7L576-2 | Isoform 2 of Cytoplasmic FMR1-interacting protein 1 | 926 | CYFIP1 |
| 25.9046 | 25.7138 | 26.0383 | 26.1633 | 26.7261 | 26.2842 | 9.5 | 69.248 | Q7LGD7 | RAS guanyl-releasing protein 2 | 927 | RASGRP2 |
| 30.5383 | 30.5169 | 30.5842 | 24.6773 | 25.6852 | 26.0515 | 40.7 | 77.555 | Q7Z304 | MAM domain-containing protein 2 | 928 | MAMDC2 |
| NaN | 26.9714 | 26.8920 | 27.3946 | 27.0488 | 26.7899 | 23 | 10.694 | J3QS45 | L-xylulose reductase (Fragment) | 931 | DCXR |
| 31.4432 | 31.5957 | 31.8236 | 31.8616 | 31.4393 | 31.3582 | 28.5 | 75.429 | Q86UX7-2 | Isoform 2 of Fermitin family homolog 3 | 934 | FERMT3 |
| 27.3468 | 27.2468 | 27.3307 | 27.5950 | 27.3210 | 27.7037 | 15.7 | 117.89 | Q86VP6-2 | Isoform 2 of Cullin-associated NEDD8-dissociated protein 1 | 935 | CAND1 |
| 25.9563 | 23.5942 | 26.3267 | 25.4284 | 24.1323 | 23.5863 | 11.3 | 282.39 | Q86Y23 | Hornerin | 938 | HRNR |
| 25.8649 | 27.0178 | 27.1103 | NaN | 25.1048 | 7.3 | 100.16 | Q8IWU5-2 | Isoform 2 of Extracellular sulfatase Sulf-2 | 940 | SULF2 |
| 32.4954 | 32.1012 | 32.1533 | 32.4294 | 33.7177 | NaN | 3.7 | 57.296 | Q8IXS2 | Dynein regulatory complex subunit 2 | 943 | CCDC65 |
| 25.5597 | 25.7027 | 25.6264 | 26.9235 | 27.8039 | 27.7083 | 8.1 | 79.917 | Q8IZ83-3 | Isoform 3 of Aldehyde dehydrogenase family 16 member A1 | 945 | ALDH16A1 |
| Gene ID | Description                                                                 |
|--------|-----------------------------------------------------------------------------|
| 27.7898| LUC7L2                                                                      |
| 27.6193| OTUB1                                                                      |
| 27.9979| SHISA4                                                                    |
| 28.3695| AP2M1                                                                      |
| 27.7917| IGSF8                                                                      |
| 27.4261| HTRA1                                                                     |
| 24.8   | NECTIN2                                                                   |
| 47.576 | PXDN                                                                       |
| Q8NBZ7 | HTRA1                                                                    |
| UDP-glucuronic acid decarboxylase 1 |
| 951 | UXS1 |
| 28.8679| LUC7L2                                                                      |
| 27.9979| OTUB1                                                                      |
| 28.8065| SHISA4                                                                    |
| 28.64 | AP2M1                                                                      |
| 28.7561| IGSF8                                                                      |
| 28.413 | HTRA1                                                                     |
| 22.6   | NECTIN2                                                                   |
| 30.69  | PXDN                                                                       |
| Q8NG11 | HTRA1                                                                    |
| Tetraspanin-14 |
| 954 | TSPAN14 |
| 26.3885| LUC7L2                                                                      |
| 26.4929| OTUB1                                                                      |
| 26.4021| SHISA4                                                                    |
| 26.538 | AP2M1                                                                      |
| 26.2464| IGSF8                                                                      |
| 26.4091| HTRA1                                                                     |
| 12.9   | NECTIN2                                                                   |
| 53.579 | PXDN                                                                       |
| Q8WTVO-4| HTRA1                                                                    |
| Isoform 4 of Scavenger receptor class B member 1 |
| 960 | SCARB1 |
| 28.4791| LUC7L2                                                                      |
| 28.6365| OTUB1                                                                      |
| 29.0483| SHISA4                                                                    |
| 28.9756| AP2M1                                                                      |
| 28.154 | IGSF8                                                                      |
| 28.1473| HTRA1                                                                     |
| 26.9   | NECTIN2                                                                   |
| 37.807 | PXDN                                                                       |
| Q8WUA8 | HTRA1                                                                   |
| Tsukushin |
| 961 | TSKU |
| 28.1752| LUC7L2                                                                      |
| 28.9208| OTUB1                                                                      |
| 28.4687| SHISA4                                                                    |
| 29.5049| AP2M1                                                                      |
| 28.6006| IGSF8                                                                      |
| 28.4161| HTRA1                                                                     |
| 20.1   | NECTIN2                                                                   |
| 153    | PXDN                                                                       |
| Q8WUJ3 | HTRA1                                                                    |
| Cell migration-inducing and hyaluronan-binding protein |
| 962 | CEMIP |
| 29.2268| LUC7L2                                                                      |
| 28.9351| OTUB1                                                                      |
| 29.2982| SHISA4                                                                    |
| 29.2314| AP2M1                                                                      |
| 29.0373| IGSF8                                                                      |
| 28.7621| HTRA1                                                                     |
| 26.7   | NECTIN2                                                                   |
| 96.022 | PXDN                                                                       |
| Q8WUM4 | HTRA1                                                                    |
| Programmed cell death 6-interacting protein |
| 963 | PDC6IP |
| 28.3893| LUC7L2                                                                      |
| 28.3538| OTUB1                                                                      |
| 28.2721| SHISA4                                                                    |
| 28.1119| AP2M1                                                                      |
| 27.6685| IGSF8                                                                      |
| 28.0689| HTRA1                                                                     |
| 10.9   | NECTIN2                                                                   |
| 73.011 | PXDN                                                                       |
| Q8WW5-3| HTRA1                                                                    |
| Isoform 3 of Choline transporter-like protein 1 |
| 964 | SLC44A1 |
| 25.0247| NaN                                                                        |
| 28.5069| NaN                                                                       |
| 27.5019| NaN                                                                       |
| 27.6992| NaN                                                                       |
| 27.7628| NaN                                                                       |
| 28.4871| NaN                                                                       |
| 28.3935| NaN                                                                       |
| 28.2   | NaN                                                                       |
| 22.487 | NaN                                                                       |
| Q92522 | HTRA1                                                                    |
| Histone H1x |
| 967 | H1FX |
| 31.7791| NaN                                                                        |
| 32.0019| NaN                                                                       |
| 31.5501| NaN                                                                       |
| 31.208 | NaN                                                                       |
| 31.3343| NaN                                                                       |
| 31.3882| NaN                                                                       |
| 39.7   | NaN                                                                       |
| 165.27 | NaN                                                                       |
| Q92626 | HTRA1                                                                    |
| Peroxidasin homolog |
| 969 | PXDN |
| 25.255 | NaN                                                                        |
| 25.2641| NaN                                                                       |
| 25.3495| NaN                                                                       |
| 25.1625| NaN                                                                       |
| 24.9605| NaN                                                                       |
| NaN    | NaN                                                                       |
| 17.1   | NaN                                                                       |
| 22.642 | NaN                                                                       |
| K7EKE8 | HTRA1                                                                    |
| Nectin-2 (Fragment) |
| 970 | NECTIN2 |
| 31.0099| 30.158                                                                 |
| 30.5358| 29.3827                                                                 |
| 30.2586| 30.431                                                                 |
| 35     | 51.286                                                                  |
| Q92743 | HTRA1                                                                    |
| Serine protease |
| 971 | HTRA1 |
| 26.7138| NaN                                                                        |
| 26.8367| NaN                                                                       |
| 27.1504| NaN                                                                       |
| 27.4565| NaN                                                                       |
| 27.2123| NaN                                                                       |
| 27.1111| NaN                                                                       |
| 14.8   | NaN                                                                       |
| 72.371 | NaN                                                                       |
| Q92841-1| HTRA1                                                                    |
| Isoform 2 of Probable ATP-dependent RNA helicase DDX17 |
| 974 | DDX17 |
| 26.3963| NaN                                                                        |
| 26.4447| NaN                                                                       |
| 26.5772| NaN                                                                       |
| 27.0517| NaN                                                                       |
| 26.5835| NaN                                                                       |
| 26.2839| NaN                                                                       |
| 1.4    | NaN                                                                       |
| 290.46 | NaN                                                                       |
| Q93008-1| HTRA1                                                                    |
| Isoform 2 of Probable ubiquitin carboxyl-terminal hydrolase FAF-X |
| 978 | USP9X |
| 28.0501| NaN                                                                        |
| 28.0024| NaN                                                                       |
| 28.2581| NaN                                                                       |
| 28.3683| NaN                                                                       |
| 28.0466| NaN                                                                       |
| 27.2062| NaN                                                                       |
| 17.8   | NaN                                                                       |
| 82.254 | NaN                                                                       |
| Q93063 | HTRA1                                                                    |
| Exostosin-2 |
| 979 | EXT2 |
| 31.7953| 31.8047                                                                 |
| 31.8254| 31.0604                                                                 |
| 31.0901| 31.1672                                                                 |
| 50.4   | 65.033                                                                  |
| Q969P0 | HTRA1                                                                    |
| Immunoglobulin superfamily member 8 |
| 983 | IGSF8 |
| 25.8443| 25.2862                                                                 |
| 25.5442| 26.0637                                                                 |
| 26.1022| 25.7382                                                                 |
| 10.2   | 49.389                                                                  |
| Q96CW1-2| HTRA1                                                                    |
| Isoform 2 of AP-2 complex subunit mu |
| 988 | AP2M1 |
| NaN    | 25.7011                                                                   |
| 25.7115| 25.4761                                                                   |
| 25.5883| 25.0377                                                                   |
| 8.6    | 21.522                                                                   |
| Q96DD7 | HTRA1                                                                    |
| Protein shisa-4 |
| 989 | SHISA4 |
| 25.407 | 25.4882                                                                  |
| 25.6235| 25.85                                                                   |
| NaN    | 25.2321                                                                  |
| 33.6   | 12.976                                                                  |
| G3V5E4 | HTRA1                                                                    |
| Glucosamine 6-phosphate N-acetyltransferase |
| 991 | GNPNAT1 |
| 26.6488| 26.4963                                                                  |
| 27.0476| 26.9246                                                                  |
| 26.0718| 26.0466                                                                  |
| 14.1   | 28.05                                                                  |
| F5GYN4 | HTRA1                                                                    |
| Ubiquitin thioesterase OTUB1 |
| 992 | OTUB1 |
| 25.1551| 24.2117                                                                  |
| 25.1255| 24.5097                                                                  |
| 25.0278| 25.1318                                                                  |
| 5.4    | 46.228                                                                  |
| Q9Y383-3| HTRA1                                                                    |
| Isoform 3 of Putative RNA-binding protein Luc7-like 2 |
| 995 | LUC7L2 |
|       |        |        |        |        |       |                      |       |
|-------|--------|--------|--------|--------|-------|----------------------|-------|
| 29.9848 | 29.6026 | 29.945 | 29.594 | 29.1542 | 29.281 | 10.4                  | 122.2 |
| Q96KG7 | Multiple epidermal growth factor-like domains protein 10 | 997 | MEGF10 |
| 27.7741 | 27.6896 | 27.9046 | 28.4275 | 26.8049 | 20.7 | 43.833 | Q96KP4-2 | Isoform 2 of Cytosolic non-specific dipeptidase | 998 | CNDP2 |
| 27.7842 | 27.7148 | 27.7573 | 28.365 | 27.9228 | 28.1391 | 22.4 | 91.706 | Q96QK1 | Vacuolar protein sorting-associated protein 35 | 100 | VPS35 |
| 26.0472 | 25.7896 | 26.6946 | 26.0483 | 26.6119 | 25.8882 | 8.6 | 82.682 | Q96TA1-2 | Isoform 2 of Niban-like protein 1 | 100 | FAM129B |
| 27.4039 | 28.1414 | 27.7684 | 28.1438 | 28.363 | 28.4948 | 18.2 | 102.26 | Q99460-2 | Isoform 2 of 26S proteasome non-ATPase regulatory subunit 1 | 100 | PSMD1 |
| 26.6747 | NaN | 26.7788 | 27.408 | 26.6629 | 26.6747 | 14.5 | 41.92 | Q99536 | Synaptic vesicle membrane protein VAT-1 homolog | 100 | VAT1 |
| 30.1099 | 31.4636 | 31.0101 | 29.8613 | 30.7102 | 31.3031 | 24.2 | 333.2 | D6RGG3 | Collagen alpha-1(XII) chain | 100 | COL12A1 |
| 26.0119 | 25.9896 | 25.8301 | 26.4069 | 26.0886 | 26.1944 | 10.6 | 75.775 | Q99805 | Transmembrane 9 superfamily member 2 | 101 | TM9SF2 |
| 29.851 | 29.9361 | 29.9835 | 29.642 | 29.9456 | 29.9779 | 33.5 | 54.804 | Q99832-3 | Isoform 3 of T-complex protein 1 subunit eta | 101 | CCT7 |
| 27.2506 | 27.938 | 28.0632 | 28.2525 | 28.2039 | 27.8943 | 24.3 | 37.709 | E9PKG1 | Protein arginine N-methyltransferase 1 | 101 | PRMT1 |
| 25.5381 | 25.4008 | NaN | 26.2327 | 25.9265 | 25.9615 | 4.1 | 140.13 | I3L1L3 | Myb-binding protein 1A (Fragment) | 101 | MYBBP1A |
| 25.8931 | 26.4485 | 26.5617 | NaN | 25.0051 | NaN | 8.1 | 28.949 | A0A087WWS3 | Coronin | 101 | CORO1B |
| 27.184 | 26.6295 | 26.7783 | 26.6158 | NaN | NaN | 4.9 | 56.32 | B4DKD1 | Protein tweety homolog | 102 | TTYH2 |
| 26.5912 | 27.0737 | 26.9686 | 27.034 | 26.6866 | 26.8346 | 38.3 | 49.857 | Q9BUFS | Tubulin beta-6 chain | 102 | TUBB6 |
| 27.2985 | 26.3269 | 25.8944 | 25.8355 | 26.4947 | 27.4192 | 15.9 | 26.994 | Q9BXJ4 | Complement C1q tumor necrosis factor-related protein 3 | 102 | C1QTNF3 |
| NaN | 25.2311 | 25.4209 | 25.5543 | 25.3501 | 25.156 | 3.7 | 103.13 | Q9BZQ8 | Protein Niban | 102 | FAM129A |
| 29.4233 | 29.0223 | 28.8792 | 28.2737 | 28.0883 | 28.3675 | 8.8 | 54.139 | Q9C0H2-2 | Isoform 2 of Protein tweety homolog 3 | 103 0 | TTYH3 |
| 26.221 | 26.5536 | 26.9602 | 26.4921 | 26.7842 | 26.3368 | 31.3 | 22.171 | Q9H0U4 | Ras-related protein Rab-1B | 103 1 | RAB1B |
| 25.4382 | 25.3143 | 25.3545 | 25.6099 | 25.5084 | 25.8711 | 7.2 | 57.547 | B4DGG1 | Protein FAM234A | 103 2 | FAM234A |
| 27.2067 | 27.1732 | 27.6113 | 26.1 | 25.884 | 26.6046 | 32.9 | 40.323 | Q9H1J7 | Protein Wnt-5b | 103 3 | WNT5B |
| 25.1617 | 25.3534 | 25.9159 | 25.6159 | NaN | 25.3338 | 4.8 | 72.595 | Q9H4A4 | Aminopeptidase B | 103 9 | RNPEP |
| 32.3383 | 31.9755 | 32.0026 | 33.0186 | 33.3288 | 30.2 | 50.326 | Q9H4B7 | Tubulin beta-1 chain | 104 0 | TUBB1 |
| 30.7992 | 30.4887 | 31.0566 | 30.9964 | 31.1587 | 30.9511 | 50.6 | 60.626 | Q9H4M9 | EH domain-containing protein 1 | 104 1 | EHD1 |
| NaN | NaN | NaN | 24.7693 | 25.1984 | 25.2371 | 15.9 | 24.605 | Q5VXN0 | Ribosome production factor 2 homolog (Fragment) | 104 2 | RPF2 |
| 28.6435 | 28.6887 | 28.767 | 29.156 | 29.418 | 29.2126 | 28.1 | 37.538 | Q9H8I1-3 | Isoform 3 of Beta-parvin | 104 7 | PARVB |
| 29.8885 | 29.8782 | 29.8697 | 30.8567 | 30.8608 | 30.6207 | 27 | 37.144 | F8W914 | Reticulin | 105 2 | RTN4 |
| 27.2812 | 27.6464 | 27.5406 | 28.2682 | 27.5245 | 27.1591 | 23.4 | 62.138 | Q5T6H7 | Xaa-Pro aminopeptidase 1 | 105 3 | XPNPEP1 |
| NaN | 24.8494 | 24.8782 | 25.2306 | 24.6761 | 24.7695 | 4.3 | 79.656 | Q9NR30-2 | Isoform 2 of Nucleolar RNA helicase 2 | 105 6 | DDX21 |
| 26.354 | 26.1007 | 26.75 | 26.499 | 26.4893 | 26.243 | 15.2 | 22.367 | Q9NR31 | GTP-binding protein SAR1a | 105 7 | SAR1A |
| 26.7005 | 26.712 | 26.6613 | 27.5886 | 27.3881 | 27.0896 | 22.3 | 40.307 | Q9NR45 | Sialic acid synthase | 105 8 | NANS |
| 27.1304 | 27.704 | 27.7234 | 26.0858 | 26.2415 | 25.5395 | 23.2 | 38.982 | B4DNG0 | cDNA FLJ58142, highly similar to Olfactomedin-like protein 3 | 106 0 | OLFLML3 |
| 27.1921 | 27.0131 | 27.0698 | 27.654 | 27.2048 | 27.124 | 21.2 | 66.115 | Q9NSD9 | Phenyllalanine--tRNA ligase beta subunit | 106 2 | FARSIB |
| 27.2729 | 28.1249 | 27.3705 | NaN | NaN | 26.1825 | 7.2 | 292.26 | Q9NT68-2 | Isoform 2 of Teneurin-2 | 106 3 | TENM2 |
| Gene Symbol | Description | Protein Name | Accession | Description | Accession | Protein Name | Accession |
|-------------|-------------|--------------|-----------|-------------|-----------|--------------|-----------|
| Q9NTK5 | Obg-like ATPase 1 | Obg-like ATPase 1 | Q9NTK5 | Obg-like ATPase 1 | Q9NTK5 | Obg-like ATPase 1 | Q9NTK5 |
| D6RGI3 | Septin 11, isoform CRA_b | Septin 11, isoform CRA_b | D6RGI3 | Septin 11, isoform CRA_b | D6RGI3 | Septin 11, isoform CRA_b | D6RGI3 |
| Q9NVM1 | Protein eva-1 homolog B | Protein eva-1 homolog B | Q9NVM1 | Protein eva-1 homolog B | Q9NVM1 | Protein eva-1 homolog B | Q9NVM1 |
| Q9NZN3 | EH domain-containing protein 3 | EH domain-containing protein 3 | Q9NZN3 | EH domain-containing protein 3 | Q9NZN3 | EH domain-containing protein 3 | Q9NZN3 |
| Q9P0L0 | Vesicle-associated membrane protein-associated protein A | Vesicle-associated membrane protein-associated protein A | Q9P0L0 | Vesicle-associated membrane protein-associated protein A | Q9P0L0 | Vesicle-associated membrane protein-associated protein A | Q9P0L0 |
| Q9NZN4 | EH domain-containing protein 2 | EH domain-containing protein 2 | Q9NZN4 | EH domain-containing protein 2 | Q9NZN4 | EH domain-containing protein 2 | Q9NZN4 |
| Q9P126 | Isoform 2 of C-type lectin domain family 1 member B | Isoform 2 of C-type lectin domain family 1 member B | Q9P126 | Isoform 2 of C-type lectin domain family 1 member B | Q9P126 | Isoform 2 of C-type lectin domain family 1 member B | Q9P126 |
| Q9P258 | Protein RCC2 | Protein RCC2 | Q9P258 | Protein RCC2 | Q9P258 | Protein RCC2 | Q9P258 |
| Q9P273 | Teneurin-3 | Teneurin-3 | Q9P273 | Teneurin-3 | Q9P273 | Teneurin-3 | Q9P273 |
| Q9P2B2 | Prostaglandin F2 receptor negative regulator | Prostaglandin F2 receptor negative regulator | Q9P2B2 | Prostaglandin F2 receptor negative regulator | Q9P2B2 | Prostaglandin F2 receptor negative regulator | Q9P2B2 |
| Q9P2J5 | Leucine--tRNA ligase, cytoplasmic | Leucine--tRNA ligase, cytoplasmic | Q9P2J5 | Leucine--tRNA ligase, cytoplasmic | Q9P2J5 | Leucine--tRNA ligase, cytoplasmic | Q9P2J5 |
| Q9UGM3 | Isoform 9 of Deleted in malignant brain tumors 1 protein | Isoform 9 of Deleted in malignant brain tumors 1 protein | Q9UGM3 | Isoform 9 of Deleted in malignant brain tumors 1 protein | Q9UGM3 | Isoform 9 of Deleted in malignant brain tumors 1 protein | Q9UGM3 |
| Q9UKU9 | Angiopoietin-related protein 2 | Angiopoietin-related protein 2 | Q9UKU9 | Angiopoietin-related protein 2 | Q9UKU9 | Angiopoietin-related protein 2 | Q9UKU9 |
| K7EK18 | Septin-9 (Fragment) | Septin-9 (Fragment) | K7EK18 | Septin-9 (Fragment) | K7EK18 | Septin-9 (Fragment) | K7EK18 |
| Q9UHN6 | Isoform 2 of Cell surface hyaluronidase | Isoform 2 of Cell surface hyaluronidase | Q9UHN6 | Isoform 2 of Cell surface hyaluronidase | Q9UHN6 | Isoform 2 of Cell surface hyaluronidase | Q9UHN6 |
| H7C286 | N-acetyl-D-glucosamine kinase | N-acetyl-D-glucosamine kinase | H7C286 | N-acetyl-D-glucosamine kinase | H7C286 | N-acetyl-D-glucosamine kinase | H7C286 |
| Q9UKK3 | Protein mono-ADP-ribosyltransferase PARP4 | Protein mono-ADP-ribosyltransferase PARP4 | Q9UKK3 | Protein mono-ADP-ribosyltransferase PARP4 | Q9UKK3 | Protein mono-ADP-ribosyltransferase PARP4 | Q9UKK3 |
| Q9UKU9 | Angiopoietin-related protein 2 | Angiopoietin-related protein 2 | Q9UKU9 | Angiopoietin-related protein 2 | Q9UKU9 | Angiopoietin-related protein 2 | Q9UKU9 |
| Q9UKU9 | Angiopoietin-related protein 2 | Angiopoietin-related protein 2 | Q9UKU9 | Angiopoietin-related protein 2 | Q9UKU9 | Angiopoietin-related protein 2 | Q9UKU9 |
|  |  |  |  |  |  |  |  |
| Gene Symbol | Protein Name | Description | Score | Primary Source | Accession Number |
|-------------|--------------|-------------|-------|----------------|------------------|
| PCOLCE2     | Procollagen C-endopeptidase enhancer 2 | | 1099 | | |
| E7EMB6      | Aspartyl aminopeptidase | | 1101 | | |
| Q9ULF5      | Zinc transporter ZIP10 | | 1102 | | |
| Q9ULI3      | Protein HEG homolog 1 | | 1103 | | |
| Q9ULV4      | Coronin-1C | | 1104 | | |
| Q9UNH7      | Pre-mRNA-processing factor 19 | | 1105 | | |
| Q9UNH7-2    | Isoform 2 of Sorting nexin-6 | | 1108 | | |
| Q9UMP5      | Cysteine/glutamate transporter | | 1110 | | |
| Q9UNM6      | 26S proteasome non-ATPase regulatory subunit 13 | | 1110 | | |
| PSMD13      | | | | | |
| SLC7A11     | | | | | |
| SNX6        | | | | | |
| RUVBL2      | Phenylalanine--tRNA ligase alpha subunit | | 1123 | | |
| RUVBL1      | | | | | |
| CLEC11A     | | | | | |
| EIF3L       | | | | | |
| DER3        | | | | | |

**Table Values:**
- NaN: Not available
- Score: Scoring of the protein interaction
- Accession Number: Unique identifier for the protein

**Table Columns:**
- Gene Symbol
- Protein Name
- Description
- Score
- Primary Source
- Accession Number
| Accession | Description                                                                 | Expression Log2 | Fold Change | Q Value | Chromosome | Start | End   | Length | Ensembl ID |
|-----------|------------------------------------------------------------------------------|-----------------|-------------|---------|------------|-------|-------|--------|------------|
| Q9Y3F4    | Serine-threonine kinase receptor-associated protein                           | 27.2587         | 39.7        | 8.90E-03 | 113        | 2     | 2     | 505    | STRAP      |
| Q9Y3I0    | tRNA-splicing ligase RtcB homolog                                            | 27.6697         | 23.5        | 5.35E-03 | 113        | 3     | 2     | 472    | RLC8B      |
| Q9Y3U8    | 60S ribosomal protein L36                                                    | 33.0755         | 41.6        | 7.20E-03 | 113        | 4     | 5     | 45     | RPL36      |
| Q9Y490    | Talin-1                                                                      | 27.8518         | 23.5        | 1.44E-02 | 113        | 1     | 1     | 393    | TLN1       |
| Q9Y4K0    | Lysyl oxidase homolog 2                                                      | 27.6252         | 21.7        | 2.59E-02 | 113        | 2     | 2     | 354    | LOXL2      |
| A0A087X054| Hypoxia up-regulated protein 1                                                | 30.2028         | 34.4        | 1.53E-02 | 113        | 3     | 7     | 546    | HYOU1      |
| Q9Y5P6    | Mannose-1-phosphate guanyltransferase beta                                    | 27.6538         | 34.4        | 5.42E-02 | 113        | 4     | 7     | 391    | GMPPB      |
| Q9Y5X9    | Endothelial lipase                                                           | 30.0721         | 56.794      | 3.11E-02 | 113        | 5     | 9     | 498    | LIPG       |
| Q9Y678    | Coatomer subunit gamma-1                                                    | 27.8159         | 8.8         | 2.59E-02 | 113        | 6     | 3     | 634    | COPG1      |
| Q9Y696    | Chloride intracellular channel protein 4                                     | 33.0233         | 51.3        | 2.59E-02 | 113        | 7     | 4     | 575    | CLIC4      |
| Q9Y6C2    | EMILIN-1                                                                     | 27.8159         | 51.3        | 2.59E-02 | 113        | 8     | 5     | 623    | EMILIN1    |
| Q9Y6G9    | Cytoplasmic dynein 1 light intermediate chain 1                              | 27.5216         | 15.7        | 2.59E-02 | 113        | 9     | 6     | 555    | DYNC1L1    |
| A0A0A0MT7 | Laminin subunit alpha-4                                                     | 30.8089         | 25.0        | 2.59E-02 | 113        | 10    | 1     | 562    | LAMA4      |
| H3BN98    | Uncharacterized protein (Fragment)                                           | 28.6246         | 23.6        | 2.59E-02 | 113        | 11    | 9     | 488    | Uncharacterized |
| Q5TEC6    | Histone H3                                                                   | 30.8089         | 15.43       | 2.59E-02 | 113        | 12    | 1     | 488    | HIST2H3PS2 |
Supplemental PCA analysis for Figure 4
## Data matrix of PCA analysis

| Component 1 | Component 2 | Component 3 | Component 4 | Component 5 | T: UNIPROT | T: Protein names | T: id |
|-------------|-------------|-------------|-------------|-------------|------------|----------------|------|
| -4.82E-05   | 0.000190472 | 2.73E-05    | -0.000274811 | 0.000350752 | H0Y8S8     | Ubiquitin-like modifier-activating enzyme 6 (Fragment) | 11   |
| 0.00258146  | -0.00214176 | -0.00134179 | -0.000325946 | 0.00123104  | A1L4H1-2   | Isoform 2 of Soluble scavenger receptor cysteine-rich domain-containing protein SSCD | 12   |
| -0.000556794| 0.00220131  | 0.00031542  | -0.00317603  | 0.00405368  | A6NH2L2-2  | Isoform 2 of Tubulin alpha chain-like 3 | 13   |
| 7.29E-05    | 0.000480408 | 0.000165966 | 0.00128052   | -0.00251292 | Q49AN9     | Small nuclear ribonucleoprotein G | 14   |
| -0.000558432| -0.00556809 | 0.000717079 | -0.00219872  | 0.00222182  | Q99613-2   | Isoform 2 of Eukaryotic translation initiation factor 3 subunit C | 15   |
| -0.000237192| 0.000362523 | -0.000774949| -0.000147103 | -0.000691581| B9A064     | Immunoglobulin lambda-like polypeptide 5 | 16   |
| -1.71E-05   | 6.77E-05    | 9.70E-06    | 9.76E-05     | 0.000124619 | D00151     | PDZ and LIM domain protein 1 | 17   |
| -0.000178296| 0.000704903 | 0.00101003  | -0.00101703  | 0.00129807  | K7EKP8     | Cytoplasmic acyl coenzyme A thioester hydrolase (Fragment) | 18   |
| -0.000503189| -0.00854147 | -0.00100586 | -0.000498626 | -0.00129784 | D00159-2   | Isoform 2 of Unconventional myosin lc | 19   |
| -3.78E-05   | 0.000149488 | 2.14E-05    | -0.00021568  | 0.00027528  | H3RU09     | Ras-related protein Rab-27A (Fragment) | 20   |
| -0.00144509 | 0.000492281 | 0.00234962  | -0.0075775 | 0.00889073  | O00231     | 265 proteasome non-ATPase regulatory subunit 11 | 21   |
| -0.000516665| 0.000692675 | 0.000218233 | -0.00187023  | 0.000372182 | O00232     | 265 proteasome non-ATPase regulatory subunit 12 | 22   |
| -0.000603071| -0.00512607 | 0.00756368  | 0.00246344   | 0.00306071  | D00299     | Chloride intracellular channel protein 1 | 23   |
| -0.000245768| -3.69E-05   | -0.000157624| -0.000563438 | 0.0010749   | O00303     | Eukaryotic translation initiation factor 3 subunit F | 24   |
| 4.57E-05    | 0.000248082 | 3.51E-05    | 0.000576876  | -0.000893636| B8Z2F7     | Sulfotransferase | 25   |
| 0.00019265  | -0.00041518 | 0.00178589  | 0.00230945   | -0.00378291 | O00391-2   | Isoform 2 of Sulfur hydrol oxidase 1 | 26   |
| -0.000936761| -0.000201957| -0.000372694 | 0.0017562   | 0.00162865  | O00429-4   | Isoform 3 of Dynamin-1-like protein | 27   |
| -0.00309608 | -0.00138735 | 0.0028432   | -0.000911464 | -0.00430416 | O00443     | Phosphatidylinositol 4-phosphate 3-kinase C2 domain-containing subunit alpha | 28   |
| Gene Name | Accession | Description | FC | Fold Change |
|-----------|-----------|-------------|----|-------------|
| Agrin | O00468 | Isoform 6 of Agrin | -6.13E-05 | -6.13E-05 |
| Procollagen-lysine,2-oxoglutarate 5-dioxygenase 2 | O00469 | Isoform 3 of Procollagen-lysine,2-oxoglutarate 5-dioxygenase 2 | -0.000225175 | -0.000225175 |
| Syntenin-1 | O00470 | Isoform 3 of Syntenin-1 | -3.47E-05 | -3.47E-05 |
| 26S proteasome non-ATPase regulatory subunit 14 | O00471 | Isoform 3 of 26S proteasome non-ATPase regulatory subunit 14 | -6.20E-05 | -6.20E-05 |
| Podocalyxin | O00472 | Isoform 2 of Podocalyxin | -7.43E-07 | -7.43E-07 |
| Serine/threonine-protein phosphatase 6 catalytic subunit | O00473 | Isoform 2 of Serine/threonine-protein phosphatase 6 catalytic subunit | -2.34E-05 | -2.34E-05 |
| Syntenin-1 | O00474 | Isoform 3 of Syntenin-1 | -6.20E-05 | -6.20E-05 |
| Protein phosphatase 1 regulatory subunit 12A (Fragment) | O00475 | Isoform 2 of Protein arginine N-methyltransferase 5 | -6.32E-05 | -6.32E-05 |
| Proteasome subunit alpha type-7 | O00476 | Isoform 2 of Protein arginine N-methyltransferase 5 | -6.32E-05 | -6.32E-05 |
| Myosin regulatory light chain 12A | O00477 | Isoform 2 of Protein arginine N-methyltransferase 5 | -6.32E-05 | -6.32E-05 |
| Exportin-1 | O00478 | Isoform 2 of Protein arginine N-methyltransferase 5 | -6.32E-05 | -6.32E-05 |
| Protein transport protein sec16 | O00479 | Isoform 2 of Protein arginine N-methyltransferase 5 | -6.32E-05 | -6.32E-05 |
| -6.79E-05 | 0.000268332 | 3.84E-05 | -0.000387147 | 0.00049413 | O15118 | NPC intracellular cholesterol transporter 1 | 52 |
| -0.000166597 | -0.000432549 | -0.000299056 | -0.00331284 | -0.00051138 | A0A077WU14 | Secretory carrier-associated membrane protein (Fragment) | 53 |
| -0.000112482 | 0.000444704 | 6.37E-05 | -0.006641614 | 0.000818915 | H3BV04 | Secretory carrier-associated membrane protein (Fragment) | 54 |
| -0.000112826 | -0.000481859 | 0.00249873 | 0.00138344 | -0.00212752 | O15143 | Actin-related protein 2/3 complex subunit 1B | 55 |
| 2.98E-05 | -0.00107861 | 0.000278956 | 0.00165598 | -0.00237335 | O15144 | Actin-related protein 2/3 complex subunit 2 | 56 |
| 0.000239031 | -0.000909595 | 5.94E-05 | 0.000358682 | 0.00207562 | O15145 | Actin-related protein 2/3 complex subunit 3 | 57 |
| 0.0321092 | 0.0127249 | -0.00868587 | 0.0200157 | -0.0266103 | O15230 | Laminin subunit alpha-5 | 58 |
| -0.00031902 | -0.000285366 | 0.000424065 | -0.000866706 | -0.000285195 | O15371-2 | Isoform 2 of Eukaryotic translation initiation factor 3 subunit D | 59 |
| 0.000117232 | -0.000166207 | 0.000285526 | 0.000308872 | 0.000200702 | O15460-2 | Isoform Ila of Prolyl 4-hydroxylase subunit alpha-2 | 60 |
| -5.89E-05 | -0.000431556 | 0.000988283 | 0.000847239 | -0.00105771 | O43143 | Pre-mRNA-splicing factor ATP-dependent RNA helicase DHX15 | 61 |
| -0.000617287 | 0.000319916 | -0.00090387 | -0.00103556 | 0.000601264 | O43149 | Zinc finger ZF-type and EF-hand domain-containing protein 1 | 62 |
| -7.62E-06 | 3.01E-05 | 4.32E-06 | -4.35E-05 | 5.35E-05 | O43150-2 | Isoform 2 of Arf-GAP with SH3 domain, ANK repeat and PH domain-containing protein 2 | 63 |
| -0.00304185 | 0.00393581 | 0.00220756 | 0.000989243 | 0.00442408 | A0A286YF22 | D-3-phosphoglycerate dehydrogenase | 64 |
| -0.000928711 | 0.0010411 | -0.00225657 | -0.00189614 | 0.00254625 | O43242 | 28S proteasome non-ATPase regulatory subunit 3 | 65 |
| -0.000271071 | 0.00107169 | 0.00015356 | -0.00154622 | 0.0019735 | O43286 | Beta-1,4-galactosyltransferase 5 | 66 |
| -0.000222258 | 0.000878707 | 0.000125907 | -0.00126779 | 0.00161813 | O43294-2 | Isoform 2 of Transforming growth factor beta-1-induced transcript 1 protein | 67 |
| -0.000248105 | 8.50E-05 | 6.72E-05 | -0.000690291 | 0.000539392 | O43324 | Eukaryotic translation elongation factor 1 epsilon-1 | 68 |
| -0.000462238 | -0.00129915 | 0.000809147 | -0.000776637 | -0.0002215 | H3BLU7 | Aflatoxin B1 aldehyde reductase member 2 (Fragment) | 69 |
| Gene ID      | Description                                                                 | Subcellular Location                      | Log2 Fold Change | p-value  |
|-------------|------------------------------------------------------------------------------|-------------------------------------------|------------------|----------|
| A0A087WZU5  | Tetrospanin-6                                                                 |                                            | -0.00263598      | 70       |
| A0A087WZU5  | Mitotic checkpoint protein BUB3 (Fragment)                                   |                                            | 0.000299231      | 71       |
| A0A087WZU5  | AP-1 complex subunit gamma-1                                                 |                                            | -0.000189174     | 72       |
| A0A087WZU5  | Synaptogyrin-2                                                               |                                            | -0.00159895      | 73       |
| A0A087WZU5  | Asparagine-tRNA ligase, cytoplasmian                                        |                                            | 0.000789103      | 74       |
| A0A087WZU5  | Glutathione S-transferase LANCL1 (Fragment)                                  |                                            | 0.220057         | 75       |
| A0A087WZU5  | Isoform 2 of EGF-like repeat and discoid I-like domain-containing protein 3  |                                            | -0.000391634     | 76       |
| A0A087WZU5  | Sjoegren syndrome/scleroderma autoantigen 1                                  |                                            | -0.000133191     | 77       |
| A0A087WZU5  | Isoform 4 of Heterogeneous nuclear ribonucleoprotein Q                      |                                            | 0.00102098       | 78       |
| A0A087WZU5  | Histone H2B type 1                                                           |                                            | 0.00153519       | 79       |
| A0A087WZU5  | DnaJ homolog subfamily C member 13 (Fragment)                                |                                            | 0.00160067       | 80       |
| A0A087WZU5  | DnaJ homolog subfamily A member 2 (Fragment)                                 |                                            | -0.00205054      | 81       |
| A0A087WZU5  | Immunoglobulin superfamily                                                    |                                            | 0.0034158        | 82       |
| A0A087WZU5  | WD repeat-containing protein 1                                               |                                            | -0.00153519      | 83       |
| A0A087WZU5  | Copine-3                                                                     |                                            | 0.0010675        | 84       |
| Accession       | Score  | E-value | Description                                                                 | Length |
|-----------------|--------|---------|-----------------------------------------------------------------------------|--------|
| -6.88E-05       | -0.00222434 | -5.98E-06 | Isoform 2 of Xylulose kinase                                                | 91     |
| -0.000413903    | 0.000213934 | 1.30E-05 | Programmed cell death protein 6                                              | 92     |
| -3.97E-05       | 0.000339889 | 9.13E-05 | Vacuolar protein sorting-associated protein 4B                              | 93     |
| -0.0114059      | 0.00568253  | -0.00853434 | Isoform 1 of Core histone macro-H2A.1                                        | 94     |
| -0.000114331    | -0.00379025 | -8.06E-05 | Isoform 5 of Filamin-B                                                        | 95     |
| -0.000286867    | 0.000172631 | 0.00192521 | Citrate synthase                                                             | 96     |
| -2.53E-05       | -6.81E-05  | 0.000634179 | Isoform 2 of Pre-mRNA-processing factor 40 homolog A                       | 97     |
| 0.000781585     | 0.010208   | -0.00500463 | Barrier-to-autointegration factor                                             | 98     |
| -1.09E-05       | -0.00515487 | -9.35E-05 | Splicing factor 3B subunit 1                                                 | 99     |
| -2.85E-05       | 0.000112785 | 1.62E-05 | Cold shock domain-containing protein E1                                     | 100    |
| -0.000166743    | -0.0146207 | 0.00238067 | US small nuclear ribonucleoprotein 200 kDa helicase                          | 101    |
| 0.000903371     | -0.00902006 | 0.000382331 | Cartilage-associated protein                                                 | 102    |
| -0.000315356    | 0.00123167  | 0.000176483 | Carbonyl reductase [NADPH] 3                                                | 103    |
| -0.000116533    | 0.00046072  | 6.60E-05 | Isoform 2 of Leukocyte cell-derived chemotaxin 1                             | 104    |
| 1.64E-05        | -0.00347895 | -5.70E-05 | 26S proteasome non-ATPase regulatory subunit 10                              | 105    |
| 0.00113059      | -0.00102766 | 0.000162807 | Isocitrate dehydrogenase [NADP] cytoplasmic                                | 106    |
| -0.000118945    | 0.000470255 | 6.74E-05 | Isoform 2 of Cytosolic 10-formyltetrahydrofolate dehydrogenase              | 107    |
| -0.000946241    | -0.00175359 | 0.000249159 | Isomerase 2 of Sulfortransferase 1C4                                        | 108    |
| -9.21E-05       | 0.000363971 | 5.22E-05 | PRA1 family protein                                                          | 109    |
| 0.00325061      | 0.000941547 | -0.00323709 | Tetraspanin-9 (Fragment)                                                     | 110    |
| -0.000502579    | 0.000235751 | 0.000979083 | Ribosomal L1 domain-containing protein 1 (Fragment)                         | 111    |
| -1.34E-05       | 5.28E-05  | 7.57E-06 | LIM and SH3 domain protein 1                                                | 112    |
| -6.84E-05       | 1.28E-05  | -0.000153421 | Stanniocalcin-2 (Fragment)                                                   | 113    |
| -0.000278102    | -0.000248958 | 2.65E-05 | Phosphodiesterase                                                            | 114    |
| Gene ID | Description                                           | Log2 Fold Change |
|--------|-------------------------------------------------------|------------------|
| 0.000265942 | -0.00105141 | 0.000150654 | -0.00151697 | 0.00193616 | O94955 | Rho-related BTB domain-containing protein 3 | 115 |
| 0.0005660055 | -0.000372038 | 7.23E-05 | -0.00101261 | 0.00184822 | Q6RH25 | Protein transport protein Sec31A | 116 |
| 0.0243491 | 0.0168504 | -0.0188181 | 0.0631388 | -0.0049494 | Q9SO44-2 | Isoform 2 of Serine protease 23 | 117 |
| -0.70E-05 | 0.000383346 | 5.49E-05 | -0.00053087 | 0.000705925 | O95154 | Aflatoxin B1 aldehyde reductase member 3 | 118 |
| -0.000822911 | 0.000169526 | -0.000929552 | -0.000639613 | -0.000413984 | O95197-3 | Isoform 3 of Reticulin-3 | 119 |
| 0.000282888 | 6.44E-05 | -7.13E-05 | 0.00088459 | 0.0001768 | Q6RDI2 | Luc7-like protein 3 (Fragment) | 120 |
| 0.00214814 | 0.000742352 | -0.000754657 | 0.00454406 | -0.00293545 | Q9UEL6 | Myelin protein zero-like protein 1 (Fragment) | 121 |
| 8.80E-06 | -4.30E-05 | -0.00109295 | -7.53E-05 | 0.00368273 | O95372 | Acyl-protein thioesterase 2 | 122 |
| 0.000833888 | -0.00138763 | 0.00173584 | 0.00363985 | 0.000370895 | O95373 | Importin-7 | 123 |
| -6.94E-05 | -0.00275231 | 0.00109404 | 0.00358103 | -0.00438607 | O95445-2 | Isoform 2 of Apolipoprotein M | 124 |
| 2.78E-05 | 0.000183225 | 6.33E-05 | 0.000488384 | -0.000958417 | O95490-3 | Isoform 3 of Adhesion 6 protein-coupled receptor L2 | 125 |
| -0.000146393 | 0.000578773 | 8.29E-05 | -0.000835047 | 0.0010658 | O95497 | Pantelethinease | 126 |
| -0.000210723 | -8.57E-05 | -0.00100397 | -0.00036974 | 0.00135924 | O95782-2 | Isoform B of AP-2 complex subunit alpha-1 | 127 |
| 0.00235889 | -0.00761205 | 0.00368197 | 0.000854684 | -0.00787561 | O95834 | Echinoderm microtubule-associated protein-like 2 | 128 |
| 0.00308888 | 0.000313525 | 0.00141216 | 0.00797593 | -0.00851252 | E9PRU1 | EGF-containing fibulin-like extracellular matrix protein 2 | 129 |
| -0.000164253 | -0.000686121 | 0.00108624 | -0.000512098 | -0.00118785 | O96019-2 | Isoform 2 of Actin-like protein 6A | 130 |
| -0.00828814 | 0.00472056 | -0.00713751 | 0.000812884 | 0.0088862 | P00338 | L-lactate dehydrogenase A chain | 131 |
| -4.78E-05 | -0.000845853 | 0.000629366 | -0.000305933 | -0.000997055 | P00352 | Retinal dehydrogenase 1 | 132 |
| -4.08E-05 | 0.0000161258 | 2.31E-05 | -0.000236261 | 0.000296993 | P00387-2 | Isoform 2 of NADH-cytochrome b5 reductase 3 | 133 |
| -0.00221155 | 0.000874349 | 0.00125283 | -0.012615 | 0.016101 | H7BYH4 | Superoxide dismutase [Cu-Zn] | 134 |
| -0.000603664 | -0.000920466 | 0.000294183 | -0.000427994 | -0.00021627 | Q00450 | Ceruloplasmin | 135 |
| 0.00185372 | -0.00765285 | 0.0127266 | 0.00531999 | -0.0117221 | P00488 | Coagulation factor XIII A chain | 136 |
| 0.000596734 | -0.000110504 | 0.000966002 | -2.38E-05 | -0.0051662 | P00491 | Purine nucleoside phosphorylase | 137 |
| 0.000377945 | 0.0000504684 | 0.000381068 | -0.000866247 | -9.42E-05 | P00533-4 | Isoform 4 of Epidermal growth factor receptor | 138 |
| -0.00252753 | -0.0152292 | 0.00695824 | 0.00140113 | -0.0121924 | P00558 | Phosphoglycerate kinase 1 | 139 |
| -0.0225399 | -0.0391567 | -0.000109556 | -0.0559157 | 0.0963179 | E9PIT3 | Prothrombin | 140 |
| Accession | Description |
|-----------|-------------|
| P02679    | Complement C1r subcomponent |
| A0A087WUA0| Fibrinogen alpha |
| P02647    | Apolipoprotein E |
| P02533    | Prelamin |
| A0A3B3ISV3| Keratin, type II cytoskeletal 6C |
| P01042    | Hemoglobin subunit epsilon |
| P01031    | Immunoglobulin heavy constant gamma 1 (Fragment) |
| P01008    | Immunoglobulin heavy constant gamma 1 (Fragment) |
| P01024    | Complement C3 |
| P01031    | Complement C5 |
| P01042.3  | Isoform 3 of Kininogen-1 |
| A6XGL2    | Insulin |
| P01344    | Insulin-like growth factor II |
| P01834    | Immunoglobulin kappa constant |
| A0A0DMS07 | Immunoglobulin heavy constant gamma 1 (Fragment) |
| P02100    | Hemoglobin subunit epsilon |
| PO2452    | Collagen alpha-1(III) chain |
| PO2461    | Collagen alpha-1(IV) chain |
| A0A3B3ISV3| Collagen alpha-1(IV) chain (Fragment) |
| E9PNH7    | Alpha-crystallin B chain (Fragment) |
| P02533    | Keratin, type I cytoskeletal 34 |
| P48668    | Keratin, type II cytoskeletal 6C |
| Q8BDU5    | Prenamin-A/C |
| P02647    | Apolipoprotein A-I |
| P02649    | Apolipoprotein E |
| P02656    | Apolipoprotein C-III |
| A0A087WUA0| Fibrinogen alpha chain |
| P02675    | Fibrinogen beta chain |
| P02679-2  | Isoform Gamma-A of Fibrinogen gamma chain |
|                |                |                |                  |                  |                  |
|----------------|----------------|----------------|------------------|------------------|------------------|
| -0.00122998   | -0.000539418   | -0.00294418    | -0.00045555      | -0.000967237    | E9PMR5           |
| -0.003358479  | 0.00259886     | -0.0041119     | -0.00349283      | -0.00712565     | P02748           |
| -0.00175293   | -0.00350285    | 0.00304165     | -0.00442284      | -0.00640228     | J3KS17           |
| 0.300878      | 0.341271       | 0.14253        | -0.107594        | -0.471289       | P02751           |
| -0.00115935   | 0.0000861629   | -0.000244645   | 0.00355266       | 0.000279448     | Q5VY30           |
| 0.00593819    | 0.0462699      | -0.0240456     | 0.161698         | -0.0871971      | P02765           |
| -0.254776     | -0.0249959     | -0.67869       | 0.0438459        | -0.290282       | P02768           |
| -0.0022817    | -0.00249337    | -0.0114349     | -0.0532042       | 0.0732464       | P02771           |
| 0.00671694    | -0.00621748    | -0.0158245     | 0.0199714        | 0.0201751       | P02774           |
| -0.0107369    | -0.00443222    | 0.0936518      | -0.030694        | -0.00499798     | P02786           |
| -0.00023791   | -0.000229776   | -0.000557082   | 1.47E-05         | -0.000416426    | C9VGO            |
| -0.00834943   | 0.00968936     | -0.0377787     | 0.0204875        | -0.0160573      | P0278-2          |
| -0.00156461   | -0.000545662   | -0.00389755    | 0.00074351       | -0.001839333    | P02790           |
| -0.00160058   | 0.000612259    | -0.00300347    | 0.00129708       | -0.00841242     | E9PRK8           |
| -4.62E-05     | 0.0001822686   | 2.62E-05       | -0.000263578     | 0.000336414     | Q8N339           |
| -2.47E-05     | -0.000122179   | 0.000229827    | -0.000139914     | -0.000154641    | P03971           |
| -0.00637699   | -0.00819816    | -0.00262536    | 0.00662952       | -0.0228829     | P04004           |
| 0.000557627   | -0.000764029   | 0.000377491    | 5.87E-05         | 0.0026301       | A0AOG2JNZ5       |
| 0.000362764   | -0.003532278   | 0.00054905     | 0.000625201      | 7.16E-05        | P04066           |
| -0.000823691  | 0.00103089     | 0.00265053     | -0.00468996      | 0.00261024      | P04075           |
| -0.00172854   | -0.003649     | 0.0088723      | -0.00744444      | -0.00412362     | P04083           |
| 0.000282472   | -0.000201899   | 0.00160142     | -0.00713721      | 0.01328         | P04114           |
| -0.000276831  | 0.000253017    | 0.000423564    | -0.00104422      | 0.00429412      | A2A2V1           |
| -0.000966085  | -0.000933054   | -0.00226215    | 5.98E-05         | -0.00169099     | J3QKT0           |
| -0.000274719  | 4.21E-06       | 0.000293137    | 0.000240013      | 0.000470269     | P04181           |
| -2.98E-06     | 1.18E-05       | 1.69E-06       | -1.70E-05        | 2.17E-05        | P04196           |
| 0.000868457   | 0.00523666     | 0.00545697     | -0.00471298      | -0.016895       | E9PIM6           |
| -0.0136895    | -0.0344238     | 0.0176922      | 0.175442         | 0.158401        | P04264           |
| -3.95E-05     | -0.000294045   | 0.000053121    | -0.000336728     | -0.000372172    | P04350           |
| -0.0602094    | -0.0791669     | 0.132241       | -0.183607        | -0.00487759     | P04406           |
| -0.000463472  | 0.000032683    | 3.39E-05       | -0.000605099     | -0.000817004    | P04424           |
| Ensembl ID | AAS | Homo sapiens gene symbol | Description |
|------------|-----|--------------------------|-------------|
| P19961-2   | 0.000127176 | Isoform 2 of Alpha-amylase 2B | 203 |
| P04792     | 0.000322669 | Heat shock protein beta-1 | 204 |
| P04899     | -0.00628462 | Guanine nucleotide-binding protein G(i) subunit alpha-2 | 205 |
| Q09978     | -0.00455203 | Histone H2A type 1-J | 206 |
| P05023-3   | -0.000371852 | Isoform 3 of Sodium/potassium-transporting ATPase subunit alpha-1 | 207 |
| P05026-2   | -0.000871537 | Isoform 2 of Sodium/potassium-transporting ATPase subunit beta-1 | 208 |
| P05106     | 0.00612788 | Integrin beta-3 | 210 |
| P05121     | 0.0018105 | Isoform 3 of Sodium/potassium-transporting ATPase subunit beta-1 | 211 |
| P05387     | -0.00119955 | Fatty acid-binding protein, heart (Fragment) | 212 |
| P05452     | -0.000263886 | Tetranectin | 214 |
| P06396     | -0.000255369 | Eukaryotic translation initiation factor 2 subunit 1 (Fragment) | 215 |
| P0862148   | -0.000130199 | 60S acidic ribosomal protein P2 | 216 |
| P0862148   | -0.000130199 | 60S acidic ribosomal protein P0 | 217 |
| P05067     | -0.000130199 | Plasminogen activator inhibitor 1 | 218 |
| P05155-2   | -0.000130199 | Complement factor I | 219 |
| P05387     | -0.000130199 | HLA class I histocompatibility antigen, A-24 alpha chain | 220 |
| P05455     | -0.000130199 | HLA class I histocompatibility antigen, A-24 alpha chain | 221 |
| P05534     | -0.000130199 | HLA class I histocompatibility antigen, A-24 alpha chain | 222 |
| P05546     | -0.000130199 | HLA class I histocompatibility antigen, A-24 alpha chain | 223 |
| P05976-2   | -0.000130199 | Collagen alpha-2(V) chain | 224 |
| P06396     | -0.000130199 | Uroporphyrinogen decarboxylase | 225 |
| P06396-2   | -0.000130199 | Isoform 2 of Gelsolin | 226 |
| P06396-2   | -0.000130199 | Prothymosin alpha | 227 |
| P06576 | ATP synthase subunit beta, mitochondrial | 228 |
| P06727 | Apolipoprotein A-IW | 229 |
| P06730 | Eukaryotic translation initiation factor 4E | 230 |
| P06733 | Alpha- enolase | 231 |
| P06748 | Isoform 2 of Glycogen phosphorylase, liver form | 232 |
| A0A0J9YXP8 | Glucose-6-phosphate isomerase (Fragment) | 233 |
| P06748 | Isoform 2 of Nucleophosmin | 234 |
| H0YL80 | Tropomyosin alpha-1 chain (Fragment) | 235 |
| P06756 | Isoform 3 of Integrin alpha-V | 236 |
| P06858 | Lipoprotein lipase | 237 |
| Q16778 | Histone H2B type 2E | 238 |
| P07093 | Isoform 2 of Glia-derived nexin | 239 |
| P07099 | Epoxide hydrolase 1 | 240 |
| P07195 | L-lactate dehydrogenase B chain | 241 |
| P07305 | Glutathione peroxidase | 242 |
| P07355 | Histone H1.0 | 243 |
| P07737 | Uncharacterized protein (Fragment) | 244 |
| P07738 | Bifunctional glutamate/proline-tRNA ligase | 245 |
| P07900 | Heat shock protein HSP 90-alpha | 246 |
| G3V576 | Heterogeneous nuclear ribonucleoproteins C1/C2 | 247 |
| P07741 | Bifunctional glutamate/proline-tRNA ligase | 248 |
| P07942 | Laminin subunit beta-1 | 249 |
| P07942 | Bifunctional glutamate/proline-tRNA ligase | 250 |
| P07942 | Cathepsin B | 251 |
| P07942 | Heat shock protein HSP 90-alpha | 252 |
| P07942 | Heterogeneous nuclear ribonucleoproteins C1/C2 | 253 |
| P07942 | Laminin subunit beta-1 | 254 |
| Chain B Non-| Chain A Non- | High mobility group protein B1 | Dihydropteridine reductase | 40S ribosomal protein S17 | Vimentin variant 3 | Collagen alpha(IV) chain 2(IV) chain | U1 small nuclear ribonucleoprotein 70 kDa |
|------------------|------------------|---------------------------------|-----------------------------|--------------------------|-------------------|------------------------------------|-----------------------------------------------|
| 0.686192         | 0.000592957      | 0.443448                        | 0.131467                    | 0.214344                 | P07996             | Thrombospondin-1                    | 255                                          |
| 0.0202676        | 0.00300882       | -0.00992873                     | 0.0214127                   | -0.00847455              | ADA087WTA8         | Collagen alpha-2(I) chain           | 256                                          |
| -0.00381107      | -0.00439508      | 0.0137249                        | -0.0146789                  | -0.0031435               | P08133             | Annexin A6                          | 257                                          |
| -9.31E-05         | 0.000368024      | 5.27E-05                         | -0.0053098                  | 0.000067771              | H3BLV0             | Complement decay-accelerating factor (Fragment) | 258                                          |
| -0.000640065      | -0.00542604      | 0.0225129                        | -0.0270835                  | 0.00974709               | P08195-2           | Isoform 2 of 4F2 cell-surface antigen heavy chain | 259                                          |
| 0.0188967        | -0.0162288       | -0.00124849                      | 0.032305                    | 0.0127906                | P08238             | Heat shock protein HSP 90-beta      | 260                                          |
| 0.00158191       | -0.000406193     | -0.000650655                     | -0.000480799                | -0.000871404             | P08253-2           | Isoform 2 of 72 kDa type IV collagenase | 261                                          |
| 2.99E-05          | 0.000196862      | 6.80E-05                         | 0.000524733                 | -0.00102975              | P09210             | Glutathione S-transferase A2        | 262                                          |
| 0.000277617       | -0.000149038     | -0.00017595                      | 0.0000197069                | 0.000114565              | P08476             | Inhibin beta A chain                | 263                                          |
| 3.17E-05          | -0.000881889     | 0.00941219                       | -0.00408649                 | -0.014829                | ADA38IU79          | Integrin alpha-III (Fragment)       | 264                                          |
| 0.00134666        | -0.00204699      | -0.00169522                      | 0.00593239                  | 0.0054627               | P08567             | Pleckstrin                          | 265                                          |
| -0.000145884      | 0.00057597       | 8.25E-05                         | -0.000831002                | 0.00106064               | P08572             | Collagen alpha-2(IV) chain          | 266                                          |
| -0.000346935      | -0.000538026     | 0.00114249                       | 0.00083201                  | -0.00168457              | P08621             | U1 small nuclear ribonucleoprotein 70 kDa | 267                                          |
| 0.00345765        | 0.000577805      | 0.00129722                       | 0.00830252                  | 0.00653493               | P08648             | Integrin alpha-5                    | 268                                          |
| -0.000895441      | -0.000863006     | 0.00100951                       | -0.00423679                 | -0.00578908              | BOYJC4             | Vimentin variant 3                  | 269                                          |
| -0.00176579       | -0.00234946      | 0.000555008                      | -0.00753711                 | 0.000351086              | C9JMH6             | Alpha-2-antiplasmin (Fragment)      | 270                                          |
| -0.00148744       | 0.000409974      | -0.00139774                      | -0.0103086                  | 0.00822005               | P08708             | 40S ribosomal protein S17           | 271                                          |
| -0.00259455       | -0.00384848      | 0.0102374                        | -0.00804615                 | -0.0038837              | P08758             | Annexin A5                          | 272                                          |
| -0.00432345       | -0.00643486      | 0.0155419                        | -0.00980412                 | -0.00268989              | C9JK3              | 40S ribosomal protein SA (Fragment) | 273                                          |
| 0.000561534       | -0.00215027      | 8.56E-05                         | 0.00450578                  | 0.00192697               | P09211             | Glutathione S-transferase P         | 274                                          |
| 0.000244152       | 0.00315953       | -0.00093244                      | -0.00663784                 | -0.00149052              | P09382             | Galectin-1                          | 275                                          |
| 0.000514779       | -0.000974132     | 0.00195877                       | 0.000598696                 | -0.00160201              | P09417             | Dihydropteroine reductase           | 276                                          |
| -0.000193084      | 6.57E-05         | -0.000259512                     | -0.000275758                | 0.000526723              | QS77C4             | High mobility group protein B1      | 277                                          |
| -0.00015222       | 0.000601812      | 8.62E-05                         | -0.00868287                 | 0.00110823               | QSVZC3             | Fructose-1,6-bisphosphatase 1 (Fragment) | 278                                          |
| 0.000228578       | 0.000166597      | -0.000505341                     | 0.00252389                  | -0.00853733              | P0486              | SPARCC                               | 279                                          |
| -0.00306452       | 0.000704381      | -0.00282488                      | 0.00631107                  | -0.0106683               | P09496-2           | Isoform Non-brain of Clathrin light chain A | 280                                          |
| 3.80E-05          | 0.000827059      | -4.66E-05                        | 0.00087859                  | -0.0024164               | P09497-2           | Isoform Non-brain of Clathrin light chain B | 281                                          |
| -6.11E-05 | 0.00024163 | 3.46E-05 | -0.0034862 | 0.000444957 | P09543-2 | Isoform CNPI of 2,3-cyclic-nucleotide 3-phosphodiesterase | 282 |
| 0.00448131 | 0.000302016 | -0.000124364 | 0.00822505 | -0.00469036 | P09619 | Platelet-derived growth factor receptor beta | 283 |
| -4.26E-05 | 0.000105803 | -0.000263057 | -0.000212349 | -0.000285496 | F8VZ49 | Heterogeneous nuclear ribonucleoprotein A1 (Fragment) | 284 |
| -0.000115891 | 0.00045818 | 6.57E-05 | -0.000661057 | 0.000843732 | H0YMA0 | U2 small nuclear ribonucleoprotein A (Fragment) | 285 |
| -0.000491384 | 0.00472547 | -0.00298765 | -0.0114868 | -0.00637108 | F50K50 | Complement C4-B | 286 |
| -0.00899118 | 0.00302048 | -0.00126731 | -0.0110898 | -0.014605 | Q71UI9 | Histone H2A.V | 287 |
| -0.000665806 | -0.0113752 | 0.0114949 | 0.0128883 | -0.0220308 | PODMV9 | Heat shock 70 kDa protein 1B | 288 |
| -0.000190229 | -0.000412196 | 0.000552231 | -0.00103459 | -0.00228496 | POIP25 | Calmodulin | 289 |
| -0.000143174 | 0.000566837 | 8.12E-05 | -0.000817826 | 0.00104382 | PI0124 | Serylglucokinase | 290 |
| -0.00068832 | 0.00302204 | -0.00104011 | -0.00109082 | 0.000570358 | PI0599 | Thioredoxin | 291 |
| -0.000130949 | 0.000173912 | 0.00178592 | 0.00114359 | 0.00167593 | RT6P82 | cAMP-dependent protein kinase type I-alpha regulatory subunit (Fragment) | 292 |
| 0.000402571 | 0.000208463 | -8.10E-06 | 5.50E-05 | 0.00121274 | PI0646 | Tissue factor pathway inhibitor | 293 |
| -0.000112285 | -0.000440199 | 0.000942767 | 0.000736336 | -0.00123432 | PI0768 | S-formylglutathione hydrolase | 294 |
| -0.000514243 | 1.84E-05 | -0.000637688 | -0.000982856 | 0.000298489 | PI0809 | 60 kDa heat shock protein, mitochondrial | 295 |
| 0.000205441 | -0.00466776 | 0.00189476 | -0.00797925 | -0.0069491 | PI0909-4 | Isoform 4 of Clusterin | 296 |
| 0.000358038 | -0.000100104 | -0.000323952 | -0.000705953 | -0.000248857 | PI0915 | Mucin-like protein | 297 |
| 3.22E-05 | -0.000131052 | 1.73E-05 | 0.000613459 | -0.000895485 | PI1021 | Endoplasmic reticulum chaperone BIP | 298 |
| 0.0224088 | 0.0243952 | -0.0067414 | -0.0146459 | -0.0200147 | PI1047 | Lammin subunit gamma-1 | 299 |
| 0.00137102 | -0.0134051 | 0.030796 | 0.00032885 | -0.0218832 | PI1142 | Heat shock cognate 71 kDa protein | 300 |
| -0.000704451 | -0.000798168 | 0.000473847 | -0.00161799 | -0.0039931 | PI1166 | Solute carrier family 6, facilitated glucose transporter member 1 | 301 |
| -0.000176059 | -0.000614678 | 0.000789964 | 0.00187565 | 0.000794602 | AOA288Y9D0 | Protein 4.1 | 302 |
| -0.00108544 | -0.000596155 | -0.00105882 | -0.000806374 | -0.00222769 | PI11216 | Glycogen phosphorylase, brain form | 303 |
| -5.68E-05 | 0.000873886 | -0.00114821 | 0.000696841 | 0.00164989 | PI1134 | Ras-related protein Ral-B | 304 |
| -0.000567385 | 0.000366931 | -0.00103764 | -0.00396282 | -0.0102628 | PI11387 | DNA topoisomerase 1 | 305 |
| Name                          | Description                                                                 | Score |
|-------------------------------|-----------------------------------------------------------------------------|-------|
| 7.86E-06                      | DNA topoisomerase 2-alpha                                                    | 306   |
| -0.0114105                    | Glucose-6-phosphate 1-dehydrogenase                                          | 307   |
| -0.00038993                   | C-1-tetrahydrofolate synthase, cytoplasmal                                   | 308   |
| -0.000220259                   | Cation-independent mannose-6-phosphate receptor                               | 309   |
| -0.000119996                   | Alcohol dehydrogenase class-3                                               | 310   |
| -0.000240877                   | Polyadenylate-binding protein                                                | 311   |
| -0.000229815                   | Proliferating cell nuclear antigen                                           | 312   |
| -0.0471867                     | Collagen alpha-1(VI) chain                                                  | 313   |
| -0.0417737                     | Collagen alpha-2(VI) chain                                                  | 314   |
| -0.219749                      | Collagen alpha-3(VI) chain                                                  | 315   |
| 0.00823806                     | Coagulation factor V                                                         | 316   |
| 0.000246503                    | Inosine-5-monophosphate dehydrogenase 2 (Fragment)                          | 317   |
| -8.75E-05                      | Creatine kinase B-type (Fragment)                                           | 318   |
| -6.64E-05                      | The actinin-1                                                               | 319   |
| -0.00493609                    | X-ray repair cross-complementing protein 6                                  | 320   |
| -0.00791485                    | X-ray repair cross-complementing protein 5                                  | 321   |
| -0.000972043                   | Platelet glycoprotein Ib beta chain                                         | 322   |
| -9.52E-05                      | Isoform LAMP-2B of lysosome-associated membrane glycoprotein 2              | 323   |
| 0.000497041                    | Ribonuclease inhibitor                                                      | 324   |
| 8.78E-05                       | Isoform BMP1-6 of Bone morphogenetic protein 1                              | 325   |
| 0.0803761                      | Versican core protein                                                       | 326   |
| 0.0121625                      | Integrin alpha-4                                                            | 327   |
| -0.00191436                    | Elongation factor 2                                                          | 328   |
| -0.00896579                    | Keratin, type I cytoskeletal 10                                              | 329   |
| -0.000253343                   | Keratin, type II cytoskeletal 5                                              | 330   |
| -0.0010016                     | Complement component C6                                                     | 331   |

### Table Data

| Name                          | Description                                                                 | Score |
|-------------------------------|-----------------------------------------------------------------------------|-------|
| 7.86E-06                      | DNA topoisomerase 2-alpha                                                    | 306   |
| -0.0114105                    | Glucose-6-phosphate 1-dehydrogenase                                          | 307   |
| -0.00038993                   | C-1-tetrahydrofolate synthase, cytoplasmal                                   | 308   |
| -0.000220259                   | Cation-independent mannose-6-phosphate receptor                               | 309   |
| -0.000119996                   | Alcohol dehydrogenase class-3                                               | 310   |
| -0.000240877                   | Polyadenylate-binding protein                                                | 311   |
| -0.000229815                   | Proliferating cell nuclear antigen                                           | 312   |
| -0.0471867                     | Collagen alpha-1(VI) chain                                                  | 313   |
| -0.0417737                     | Collagen alpha-2(VI) chain                                                  | 314   |
| -0.219749                      | Collagen alpha-3(VI) chain                                                  | 315   |
| 0.00823806                     | Coagulation factor V                                                         | 316   |
| 0.000246503                    | Inosine-5-monophosphate dehydrogenase 2 (Fragment)                          | 317   |
| -8.75E-05                      | Creatine kinase B-type (Fragment)                                           | 318   |
| -6.64E-05                      | The actinin-1                                                               | 319   |
| -0.00493609                    | X-ray repair cross-complementing protein 6                                  | 320   |
| -0.00791485                    | X-ray repair cross-complementing protein 5                                  | 321   |
| -0.000972043                   | Platelet glycoprotein Ib beta chain                                         | 322   |
| -9.52E-05                      | Isoform LAMP-2B of lysosome-associated membrane glycoprotein 2              | 323   |
| 0.000497041                    | Ribonuclease inhibitor                                                      | 324   |
| 8.78E-05                       | Isoform BMP1-6 of Bone morphogenetic protein 1                              | 325   |
| 0.0803761                      | Versican core protein                                                       | 326   |
| 0.0121625                      | Integrin alpha-4                                                            | 327   |
| -0.00191436                    | Elongation factor 2                                                          | 328   |
| -0.00896579                    | Keratin, type I cytoskeletal 10                                              | 329   |
| -0.000253343                   | Keratin, type II cytoskeletal 5                                              | 330   |
| -0.0010016                     | Complement component C6                                                     | 331   |
| ID         | Unigene Key | Accession | Transcript | Description                                                                 | Score |
|------------|-------------|-----------|------------|-----------------------------------------------------------------------------|-------|
| P13674-3  |             | isoform 3 of Prolyl 4-hydroxylase subunit alpha-1 |            | Translationally controlled tumor protein                                    | 332   |
| P13693    |             | isoform 2 of Tissue factor                        |            |                                                                             | 333   |
| P13726-2  |             | isoform 2 of Glycogen synthase, muscle             |            |                                                                             | 334   |
| P13807-2  |             | isoform 2 of Beta-enolase                          |            |                                                                             | 335   |
| H7C330    |             | cAMP-dependent protein kinase type II-alpha regulatory subunit (Fragment) |            |                                                                             | 336   |
| P13929-3  |             | isoform 3 of Beta-enolase                          |            |                                                                             | 337   |
| P14550    |             | Aldo-keto reductase family 1 member A1             |            |                                                                             | 338   |
| P14618    |             | Pyruvate kinase PKM                                |            |                                                                             | 340   |
| P14625    |             | Endoplasmic                                       |            |                                                                             | 341   |
| P14868-2  |             | isoform 2 of Aspartate--tRNA ligase, cytoplasmic   |            |                                                                             | 344   |
| P14918    |             | Aldose reductase                                   |            |                                                                             | 345   |
| P15121    |             | Aldose reductase                                   |            |                                                                             | 346   |
| P15144    |             | Aminopeptidase N                                   |            |                                                                             | 347   |
| P15153    |             | Ras-related C3 botulinum toxin substrate 2        |            |                                                                             | 348   |
| P15153-3  |             | isoform Gamma of Poliovirus receptor               |            |                                                                             | 349   |
| P15154    |             | Carboxypeptidase N catalytic chain (Fragment)      |            |                                                                             | 350   |
| P15155    |             | V-type proton ATPase subunit B, kidney isoform (Fragment) |            |                                                                             | 351   |
| Accession | Description                                                                 | Name                                      | P15529  | P15559  | P15880  | P16152  | P16402  | P16403  | 352 | 353 | 354 | 355 | 356 | 357 | 358 | 359 | 360 | 361 | 362 | 363 | 364 | 365 | 366 | 367 | 368 | 369 | 370 | 371 | 372 | 373 | 374 |
|-----------|-------------------------------------------------------------------------------|-------------------------------------------|---------|---------|---------|---------|---------|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 0.00122781 | -9.65E-06                                                                   | -0.0011616                                | 0.000169444 | 0.0030465 | P15529-15 | Isoform K of Membrane cofactor protein | 352 |
| -0.014779  | -0.00221858                                                                 | 0.00582219                                | -0.0327039 | -0.00394453 | P15559-2   | Isoform 2 of NAD(P)H dehydrogenase [quinone] 1 | 353 |
| -0.0123942 | -0.00404702                                                                 | -0.0151826                                | -0.020961 | 0.0141838 | P15880   | 40S ribosomal protein S2 | 354 |
| -0.000138554 | 7.85E-05                                                                 | -0.000790333                              | 0.00100873 | QSTELJ0 | Replication protein A 32 kDa subunit [Fragment] | 355 |
| -0.00417101 | -0.00101049                                                                | 0.00821788                                | -0.0143315 | -0.0102342 | HYD13 | CD44 antigen | 356 |
| -0.00164097 | -0.00150892                                                                | 0.000661236                               | -0.00205421 | -0.00088606 | P16152 | Carbonyl reductase [NADPH] 1 | 357 |
| 0.00133231 | 0.00291758                                                                  | -0.000330978                              | 0.000858016 | 0.0069243 | P16402 | Histone H1.3 | 358 |
| -0.0670719 | 0.0784288                                                                   | -0.0399645                                | 0.15548696 | 0.148299 | P16403 | Histone H1.2 | 359 |
| -4.68E-05  | -8.69E-05                                                                   | 0.000183869                               | -0.000191385 | -9.24E-05 | H3BQV5 | 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase gamma-2 [Fragment] | 360 |
| -0.000916475 | 0.00362333                                                                 | 0.000519177                               | -0.0052277 | 0.00647231 | P17066 | Heat shock 70 kDa protein 6 | 361 |
| 0.000501972 | -0.000141539                                                                | -0.000454183                              | -0.000989752 | -0.000348899 | P17096 | High mobility group protein HMG-1/HMG-Y | 362 |
| -0.000301057 | -0.000697698                                                               | 0.00159178                                | -0.00124958 | -0.00149361 | E7ESP4 | Integrin alpha-2 | 363 |
| -3.47E-05  | 0.000137096                                                                  | 1.96E-05                                  | -0.000197801 | 0.00025246 | Q15136 | Protein kinase A-alpha [Fragment] | 364 |
| 0.000259555 | 0.000843484                                                                  | -7.86E-05                                 | -0.000288902 | -0.00144533 | P17655-2 | Isoform 2 of Calpain-2 catalytic subunit | 365 |
| 1.99E-05   | -0.000548118                                                                 | 0.00304651                                | 0.0031056 | -0.00362791 | P17693-5 | Isoform 5 of HLA class I histocompatibility antigen, alpha chain G | 366 |
| -0.00026326 | -0.000367205                                                                | -0.000648144                              | -0.000564874 | 0.000171071 | A0A3B3IRI2 | CTP synthase | 367 |
| 0.00172349 | -0.000338521                                                                | -0.000731276                              | -0.00186376 | 0.00037168 | P17813-2 | Isoform Short of Endoglin | 368 |
| -0.000125071 | 0.000183719                                                               | 0.00119455                                | 0.000334976 | 0.000496664 | J3KTA4 | Probable ATP-dependent RNA helicase DD5X | 369 |
| -0.000942451 | -0.00015172                                                               | 0.000907522                                | -0.00161767 | 0.000387214 | P17858 | ATP-dependent 6-phosphofructokinase, liver type | 370 |
| -0.000360323 | -0.000562866                                                               | -0.000182965                              | -0.00418055 | 0.00233459 | R4GNH3 | 26S proteasome regulatory subunit 6A | 371 |
| 0.00374963 | -0.00724165                                                                | -0.00059165                                | -0.00170414 | 0.0144506 | P17987 | T-complex protein 1 subunit alpha | 372 |
| -0.000981504 | 0.000649087                                                               | -0.00153456                                | -0.00236333 | -0.00105648 | F8WBS5 | 60S ribosomal protein L35a | 373 |
| -0.00244348 | 0.000233378                                                                | 0.00420745                                 | -0.00858767 | -0.00454724 | P18084 | Integrin beta-5 | 374 |
| Rank | Gene Name                                      | Description                                      | Log2 Fold Change |
|------|-----------------------------------------------|--------------------------------------------------|-----------------|
| 1    | ADP-ribosylation factor 4                    |                                                  | 375             |
| 2    | 60S ribosomal protein L7                     |                                                  | 376             |
| 3    | Isoform 1 of Vinculin                        |                                                  | 377             |
| 4    | Isoform 2 of Integrin beta-6                 |                                                  | 378             |
| 5    | 60S ribosomal protein L17 (Fragment)         |                                                  | 379             |
| 6    | Phosphoglycerate mutase 1                    |                                                  | 380             |
| 7    | Regulator of chromosome condensation (Fragment) |                                                  | 381             |
| 8    | Syndecan-1                                   |                                                  | 382             |
| 9    | Keratin, type II cytoskeletal 4              |                                                  | 383             |
| 10   | Lymphocyte function-associated antigen 3 (Fragment) |                                                  | 384             |
| 11   | Inter-alpha-trypsin inhibitor heavy chain H2 |                                                  | 386             |
| 12   | Inter-alpha-trypsin inhibitor heavy chain H1 |                                                  | 387             |
| 13   | Isoform 2 of Ras-related protein Rab-6A      |                                                  | 398             |
| 14   | Proteasome subunit beta-1                   |                                                  | 389             |
| 15   | Cation-dependent mannose-6-phosphate receptor|                                                  | 390             |
| 16   | Lamin B1, isoform CRA_a                     |                                                  | 391             |
| 17   | Pregnancy zone protein                      |                                                  | 392             |
| 18   | Collagen alpha-1(V) chain                   |                                                  | 393             |
| 19   | Glutathione S-transferase                   |                                                  | 395             |
| 20   | Cysteine and glycine-rich protein 1          |                                                  | 396             |
| 21   | Filamin                                      |                                                  | 397             |
| 22   | Cytoplasmic aconitate hydratase             |                                                  | 398             |
| 23   | S-nucleotidase                              |                                                  | 399             |
| 24   | Biglycan                                    |                                                  | 400             |
| 25   | Tetraspanin                                 |                                                  | 401             |
| Gene ID     | Description                                                                 | p-value  |
|------------|------------------------------------------------------------------------------|----------|
| H7BZ45     | Catechol O-methyltransferase (Fragment)                                      | 0.000177127 |
| M0ROP1     | rRNA 2-0-methyltransferase fibrillarin (Fragment)                           | 0.000125156 |
| P22102     | Trifunctional purine biosynthetic protein adenosine-3                        | 0.000148817 |
| D8RF62     | Multifunctional protein ADE2                                                | 0.000507206 |
| P22314-2   | Multifunctional protein ADE2                                                | 0.000361304 |
| A0A087X1J7 | Glutathione peroxidase                                                       | 0.000155689 |
| B1APF7     | cAMP-dependent protein kinase catalytic subunit beta (Fragment)             | 0.00128237 |
| P23142     | Fibulin-1                                                                   | 0.00136900 |
| P23142-4   | Isoform C of Fibulin-1                                                      | 0.00246425 |
| P23229-4   | Isoform Alpha-IX2A of integrin alpha-6                                      | 0.00016587 |
| P23246     | Splicing factor, proline- and glutamine-rich                                | 0.000263475 |
| P23258     | Tubulin gamma-1 chain                                                       | 0.000167569 |
| P23297     | Protein S100-A1                                                             | 0.000312827 |
| P23318-1   | Isoform 2 of Tryptophan--tRNA ligase, cytoplasmic                           | 0.000268415 |
| P23352-2   | 40S ribosomal protein S3                                                    | 0.000793921 |
| P23381-2   | Isoform 2 of Tryptophan--tRNA ligase, cytoplasmic                           | 0.000433886 |
| P23526     | Adenosylhomocysteinase                                                       | 0.000376757 |
| P23528     | Low molecular weight phosphotyrosine protein phosphatase                    | 0.000376757 |
| P24821-4   | Isoform 4 of Tenascin                                                        | 0.000638346 |
| P23526     | Adenosylhomocysteinase                                                       | 0.000433886 |
| Gene ID | Change in Expression | Fold Change |
|---------|----------------------|-------------|
| P29144  | -4.04E-05            | 0.000159592 |
| P28482  | -0.000947597         | 0.000917705 |
| P28074  | -0.00272745          | 0.000551382 |
| P28070  | -0.0001488556        | -0.000202118 |
| P27797  | -0.000525288         | 0.00130602  |
| P27348  | -0.000146379         | 8.29E-05    |
| P2705-2 | -0.000591443         | 0.000409149 |
| P26006  | 2.82E-05             | 0.0213348   |
| P26022  | -0.000378238         | 0.000213348 |
| P26038  | -0.000973695         | 0.000317848 |
| P26639  | 0.000109404          | 0.000103036 |
| P26640  | -0.000498269         | 9.76E-05    |
| P26641  | 0.00342722           | -0.000569038 |
| P27105  | -0.000551578         | -0.000654734 |
| P27348  | 4.89E-05             | -5.90E-06   |
| P2705-2 | 0.000121359          | -0.000257404 |
| P26022  | -0.000205198         | 0.000366958 |
| P26639  | -0.000322121         | 4.52E-05    |
| P28482  | -0.000205956         | -0.000205956 |
| P2705-2 | 1.45E-05             | 5.75E-05    |
| P2705-2 | -0.000133391         | -0.000247602 |
| P28482  | -1.61E-05            | -7.93E-05   |
| P28074  | 3.49E-05             | -9.10E-05   |
| P28482  | 3.56E-05             | -0.00847045 |
| P29144  | 0.0155405            | -0.00496587 |

### Gene Information

- **Tripeptidyl Mitogen**
- **Proteasome subunit beta type**
- **Proteasome subunit alpha type**
- **Calreticulin**
- **CAD protein**
- **Tetraspanin (Fragment)**
- **60S ribosomal protein L10**
- **Moesin**
- **Pentraxin**
- **Integrin alpha (Fragment)**
- **Isoform 2 of ATP synthase subunit alpha, mitochondrial**
- **Isoform 2 of ATP synthase subunit alpha type-3**
- **Isoform 2 of Proteasome subunit alpha type-3**
- **Itopeptidase 2**

### Additional Information

- **DNA replication licensing factor MCM3**
- **3-mercaptopyruvate sulfurtransferase**
- **40S ribosomal protein S12**
- **Isoform 2 of ATP synthase subunit alpha, mitochondrial**
- **Proteasome subunit alpha type-1**
- **Proteasome subunit alpha type**
- **Integrin alpha-3**
- **Erythrocyte band 7 integral membrane protein**
- **Elongation factor 1- gamma**
- **Erythrocyte band 7 integral membrane protein**
- **14-3-3 protein theta**
- **Mitogen-activated protein kinase**
- **60S ribosomal protein L10 (Fragment)**
- **Tetraspanin (Fragment)**
- **Calreticulin**
- **Proteasome subunit alpha type-5**
- **Proteasome subunit beta type-4**
- **Mitogen-activated protein kinase 1**
- **Integrated proteolytic enzyme 2**
| ID      | Log2 Fold Change | P Value 1 | P Value 2 | Symbol | Description                                      | Accession Number | Identities |
|---------|-----------------|-----------|-----------|--------|-------------------------------------------------|------------------|------------|
| P29317  | -2.11E-05       | 0.0013126 | 0.00964419| Ephrin type-A receptor 2                        | 453              |            |
| P29401  | -2.11E-05       | 0.0013126 | 0.00964419| Transketolase                                   | 455              |            |
| E9PPR1  | -0.00338486     | 0.000530151| -0.0013895| Ephrin type-B receptor 2                        | 456              |            |
| P30041  | -0.00143241     | 0.000375656| 0.000387817| Peroxiredoxin-6                                 | 457              |            |
| P30050  | -0.00131517     | 0.000129585| 0.000338486| Elongation factor 1-delta (Fragment)            | 458              |            |
| P30153  | -0.00338486     | 0.000530151| -0.0013895| MAWD binding protein, Isoform CRA_d             | 459              |            |
| P30419  | -0.00132003     | 0.000375656| 0.000387817| MAWD binding protein, Isoform CRA_d             | 460              |            |
| P30501  | -0.00132003     | 0.000375656| 0.000387817| MAWD binding protein, Isoform CRA_d             | 461              |            |
| P30504  | -0.00132003     | 0.000375656| 0.000387817| MAWD binding protein, Isoform CRA_d             | 462              |            |
| P30504  | -0.00132003     | 0.000375656| 0.000387817| MAWD binding protein, Isoform CRA_d             | 463              |            |
| P30504  | -0.00132003     | 0.000375656| 0.000387817| MAWD binding protein, Isoform CRA_d             | 464              |            |
| P30504  | -0.00132003     | 0.000375656| 0.000387817| MAWD binding protein, Isoform CRA_d             | 465              |            |
| P30504  | -0.00132003     | 0.000375656| 0.000387817| MAWD binding protein, Isoform CRA_d             | 466              |            |
| P30504  | -0.00132003     | 0.000375656| 0.000387817| MAWD binding protein, Isoform CRA_d             | 467              |            |
| P30504  | -0.00132003     | 0.000375656| 0.000387817| MAWD binding protein, Isoform CRA_d             | 468              |            |
| P30504  | -0.00132003     | 0.000375656| 0.000387817| MAWD binding protein, Isoform CRA_d             | 469              |            |
| A0A087WYN0| -0.00132003   | 0.000375656| 0.000387817| MAWD binding protein, Isoform CRA_d             | 470              |            |
| A0A087WYN0| -0.00132003   | 0.000375656| 0.000387817| MAWD binding protein, Isoform CRA_d             | 471              |            |
| A0A087WYN0| -0.00132003   | 0.000375656| 0.000387817| MAWD binding protein, Isoform CRA_d             | 472              |            |
| A0A087WYN0| -0.00132003   | 0.000375656| 0.000387817| MAWD binding protein, Isoform CRA_d             | 473              |            |
| A0A087WYN0| -0.00132003   | 0.000375656| 0.000387817| MAWD binding protein, Isoform CRA_d             | 474              |            |
| P35613 | 0.000395747 | 0.000540743 | -0.000130232 | -0.000045694 | -0.00141471 | E9PCY7 | Heterogeneous nuclear ribonucleoprotein H | 475 |
|--------|-------------|-------------|---------------|---------------|-------------|--------|----------------------------------|------|
| 2.41E-05 | -0.000118508 | 2.83E-05 | -0.000143892 | -0.000743142 | P31946-2 | Isoform Short of 14-3-3 protein beta/alpha | 476 |
| 0.000159655 | 1.54E-05 | -0.00124994 | 0.000276607 | -0.000495909 | P31948 | Stress-induced-phosphoprotein I | 477 |
| -0.000487304 | -0.000298294 | 0.000298642 | -0.00040412 | 0.00174825 | P31949 | Protein S100-A11 | 478 |
| -8.13E-05 | 0.000321363 | 4.60E-05 | -0.000463659 | 0.000591785 | P32119 | Peroxiredoxin-2 | 479 |
| -0.000980954 | 0.00128884 | -0.00107892 | -0.00131574 | -0.00578951 | P32969 | 60S ribosomal protein L9 | 480 |
| 2.06E-05 | 0.000118023 | -0.000132787 | 0.000287886 | -0.0031135 | P33176 | Kinesin-1 heavy chain | 481 |
| 0.000362933 | -0.00113755 | 0.00114107 | -0.000231573 | -0.00156273 | P33908 | Mannosyl-oligosaccharide 1,2-alpha-mannosidase IA | 482 |
| -3.01E-05 | 0.000119109 | 1.71E-05 | -0.000171849 | 0.000219337 | C9BM6 | DNA replication licensing factor MCM7 [Fragment] | 483 |
| 3.95E-05 | 0.000392491 | 0.000135593 | 0.00104618 | -0.00205305 | P34096 | Ribonuclease 4 | 484 |
| -0.000508234 | -2.11E-05 | 0.000379604 | 0.000610003 | 0.000193985 | P34896-2 | Isoform 2 of Serine hydroxymethyltransferase, cytosolic | 485 |
| -0.00179493 | -0.00188113 | 0.00160695 | -0.00154557 | 0.00140183 | P34897-3 | Isoform 3 of Serine hydroxymethyltransferase, mitochondrial | 486 |
| -0.000142796 | -0.000314244 | 0.000416046 | 0.000541774 | -0.000171865 | A0A087WTS8 | Heat shock 70 kDa protein 4 | 487 |
| -0.000920647 | -0.000938896 | 0.00122714 | -0.00343356 | 0.000530534 | P35052 | Glypican-1 | 488 |
| -5.62E-05 | 0.000222324 | 3.19E-05 | -0.000320767 | 0.000409406 | C9712 | Profilin | 489 |
| -3.95E-05 | -0.000195016 | 0.000363684 | -0.000223225 | -0.000246831 | A0A288Y804 | Catenin-beta-1 | 490 |
| -0.000341785 | 0.00135227 | 0.00193619 | -0.00194959 | 0.00248833 | A7JE75 | 60S ribosomal protein L22 [Fragment] | 491 |
| 0.000236054 | 0.000711974 | -0.00103517 | -0.00222528 | 0.00170773 | E7ES19 | Thrombospondin-4 | 492 |
| 0.000541448 | -0.0106864 | 0.0140618 | 0.082524 | 0.0742951 | P35527 | Keratin, type I cytoskeletal 9 | 493 |
| 0.000356493 | 0.000341577 | 0.000223561 | 9.41E-05 | 2.19E-05 | P35555 | Fibrillin-1 | 494 |
| -4.32E-05 | 0.00017064 | 2.45E-05 | -0.000246197 | 0.00031423 | P35558-2 | Isoform 2 of Phosphoenolpyruvate carboxykinase, cytosolic [GTP] | 495 |
| 0.00169781 | -0.0130231 | 0.0057211 | 0.057676 | -0.0612535 | P35579 | Myosin-9 | 496 |
| -0.00142463 | 0.00114462 | 0.00126976 | 0.000836789 | 0.00148829 | P35580 | Myosin-10 | 497 |
| -2.28E-05 | -0.00064068 | 0.00168504 | 0.000324754 | -0.00177951 | P35606-2 | Isoform 2 of Coatomer subunit beta | 498 |
| 0.00311595 | -0.000272347 | 0.00267249 | -0.00460643 | 0.00143091 | P35613-3 | Isoform 3 of Basigin | 499 |
| P35625 | Metalloproteinase inhibitor 3 | 500 |
| P35858 | Insulin-like growth factor-binding protein complex acid labile subunit | 501 |
| P35908 | Keratin, type II cytoskeletal 2 epidermal | 502 |
| P35998 | 26S proteasome regulatory subunit 7 | 503 |
| P36406 | Isoform Gamma of E3 ubiquitin-protein ligase TRIM23 | 504 |
| P36578 | 60S ribosomal protein L4 | 505 |
| P36871 | Phosphoglucomutase 1 | 506 |
| P36955 | Pigment epithelium-derived factor | 507 |
| P37802 | Transgelin 2 | 508 |
| P37837 | Transaldolase | 509 |
| P38606 | Isoform 2 of V-type proton ATPase catalytic subunit A | 510 |
| P38646 | Stress-70 protein, mitochondrial | 511 |
| P39019 | 40S ribosomal protein S19 | 512 |
| P39023 | 60S ribosomal protein L3 | 513 |
| A0A087X0K0 | Collagen alpha-1(XV) chain | 514 |
| P39060 | Isoform 3 of Collagen alpha-1(XVIII) chain | 515 |
| P40227 | T-complex protein 1 subunit zeta | 516 |
| P40261 | Nicotinamide N-methyltransferase | 517 |
| P40429 | 60S ribosomal protein L23a | 518 |
| P40763 | Isoform 3 of Signal transducer and activator of transcription 3 | 519 |
| P41091 | Malate dehydrogenase, cytoplasmic (Fragment) | 520 |
| P41221 | Eukaryotic translation initiation factor 2 subunit 3 | 521 |
| P41250 | Glycine–tRNA ligase | 522 |
| P41252 | Isoleucine–tRNA ligase, cytoplasmic | 523 |
| Score | Gene Name | Description |
|-------|-----------|-------------|
| -7.71E-05 | -7.44E-05 | -0.000180497 | 4.77E-06 | -0.000134924 | P42025 | Beta-actinin | 525 |
| -8.07E-05 | -0.000126028 | 3.19E-05 | -0.00167776 | -0.00284583 | P42224 | Signal transducer and activator of transcription 1-alpha/beta | 526 |
| -7.97E-05 | 0.00031509 | 4.51E-05 | -0.000454608 | 0.000580233 | K7EK35 | Signal transducer and activator of transcription | 527 |
| -0.00296821 | -0.00402216 | 0.00391309 | -0.00729137 | -0.00497049 | AGA0AGM558 | Aldo-keto reductase family 1 member C3 | 528 |
| -0.000908371 | 0.00139398 | -0.000644992 | -0.00262804 | 0.00330112 | QT1UMS | 40S ribosomal protein S27-like | 529 |
| -0.000411302 | -0.00150031 | 0.000505152 | -0.00474427 | 0.00713232 | P42766 | 60S ribosomal protein L53 | 530 |
| -0.000284874 | 0.0001955913 | 0.00107413 | -0.00162016 | 0.000658349 | BADK8 | Endothelin-converting enzyme 1 | 531 |
| 0.000629533 | -0.00192814 | 0.00262303 | 0.00173489 | -0.00281063 | P43034 | Platelet-activating factor acetylhydrolase IB subunit alpha | 532 |
| 0.00125711 | 0.000874874 | -0.000832776 | 0.000893041 | -0.00198137 | P43121 | Cell surface glycoprotein MUC1B | 533 |
| -4.42E-05 | -0.000218196 | 0.000410443 | -0.000249869 | -0.00027617 | CSK8 | Ran-specific GTPase-activating protein (Fragment) | 534 |
| -0.000687873 | 4.21E-05 | 0.000308917 | -0.00277042 | -0.00258435 | AGA0C4DF58 | Nicotinamide phosphoribosyltransferase | 535 |
| -0.00109506 | -0.00045198 | 0.000924894 | -0.00411267 | 0.00138969 | P43686 | 26S proteasome regulatory subunit 68 | 536 |
| -8.88E-05 | 0.000350967 | 5.03E-05 | -0.000506371 | 0.000646299 | P45974-2 | Isoform Short of Ubiquitin carboxyl-terminal hydrolase 5 | 537 |
| 0.000363789 | 0.000457328 | 0.000838874 | -0.000175276 | 0.00138388 | P46063 | ATP-dependent DNA helicase Q1 | 538 |
| -0.000332447 | -0.000566642 | 0.000461455 | -0.000648068 | -0.000827115 | P46087-3 | Isoform 3 of Probable 28S rRNA (cytosine(4447)-C(5))-methyltransferase | 539 |
| -5.55E-05 | 0.000219313 | 3.14E-05 | -0.000316422 | 0.00040866 | F650P2 | Large proline-rich protein BAG6 (Fragment) | 540 |
| -0.000243628 | 0.000314292 | 4.21E-05 | -0.000237968 | 0.000562215 | P46599-2 | Isoform 2 of Vesicle-fusing ATPase | 541 |
| -1.67E-05 | -1.61E-05 | -3.91E-05 | 1.03E-06 | -2.92E-05 | EPRR20 | Dual-specificity mitogen-activated protein kinase kinase 3 (Fragment) | 542 |
| -0.00174236 | 0.00017043 | -0.00105069 | -0.00373204 | -0.00354367 | P46776 | 60S ribosomal protein L27a | 543 |
| -0.000648168 | -0.00657359 | -0.00478264 | 0.00219181 | 0.00704347 | ADA28R8Y6J3 | 60S ribosomal protein L5 (Fragment) | 544 |
| -0.00316009 | 0.001111462 | 0.00320598 | -0.00507483 | -0.0121254 | GSV1B3 | 60S ribosomal protein L21 | 545 |
| -6.18E-05 | 0.000160186 | -0.000750391 | 0.000116105 | -0.00112699 | P46799 | 60S ribosomal protein L28 | 546 |
| -0.00669759 | 0.0103097 | -0.00503478 | -0.0134573 | 0.0221304 | A0A024R4M0 | 40S ribosomal protein S9 | 547 |
| -0.00115798 | -0.000256128 | -0.00283411 | -0.0118005 | M0R0F0 | 40S ribosomal protein S5 (Fragment) | 548 |
| -0.000171726 | -5.08E-05 | -0.000277322 | -0.00216597 | P46783 | 40S ribosomal protein S10 | 549 |
| 0.00012788 | -0.00126785 | 0.0006544 | 0.00998697 | -0.00188405 | P46940 | Ras GTPase-activating-like protein IQGAP1 | 550 |
| -2.41E-05 | 9.53E-05 | 1.36E-05 | -0.000137438 | 0.000175417 | C9J8R8 | Glycogenin-1 (Fragment) | 551 |
| 2.86E-05 | -0.000651841 | 0.00100345 | 0.000118034 | -0.000590282 | P47755 | F-actin-capping protein subunit alpha-2 | 552 |
| -0.000114696 | -0.00168583 | 0.0019747 | 0.000175876 | -0.00048998 | B1AK87 | F-actin-capping protein subunit beta | 553 |
| -0.000898344 | 0.000843327 | -0.00473381 | 0.00396027 | P47897-2 | Isoform 2 of Glutamine--tRNA ligase | 554 |
| -0.000997665 | 0.000323934 | 0.00249933 | -0.00490475 | P47914 | 60S ribosomal protein L29 | 555 |
| -0.0111776 | -0.00291064 | -0.00364267 | -0.000570217 | P48059 | LIM and senescent cell antigen-like-containing domain protein 1 | 556 |
| -3.73E-05 | 0.000147462 | 2.11E-05 | -0.000212757 | 0.000271549 | B4E3S5 | cDNA FLJ50386, highly similar to Glioma pathogenesis-related protein 1 | 557 |
| 1.01E-05 | -0.000856611 | 0.00104991 | -0.00057217 | -0.000392529 | P48147 | Prolyl endopeptidase | 558 |
| -3.21E-05 | 0.000126905 | 1.82E-05 | -0.00013097 | 0.000233639 | P48426-2 | Isoform 2 of Phosphatidylinositol 4-phosphate 4-kinase type 2 alpha | 559 |
| 1.94E-05 | 0.000279643 | -0.000308737 | -8.65E-05 | -0.000974155 | P48444 | Coatomer subunit delta | 560 |
| 0.00664156 | 0.0126131 | 0.0231052 | 0.0398904 | -0.059333 | E4OA7 | Tetraspanin (Fragment) | 561 |
| -0.000251993 | 0.000443746 | -0.000586202 | 7.26E-05 | 0.000620305 | R4GMR5 | 26S proteasome non-ATPase regulatory subunit 8 | 562 |
| 0.000365298 | -0.000573597 | -0.00649734 | -0.0123381 | P48643 | T-complex protein 1 subunit epsilon | 563 |
| 0 | 0 | 0 | 0 | P48723 | Heat shock 70 kDa protein 13 | 564 |
| -1.95E-05 | 7.72E-05 | 1.11E-05 | -0.000111354 | 0.000142126 | P48735-2 | Isoform 2 of Isocitrate dehydrogenase (NADP), mitochondrial | 565 |
| -0.000172307 | 0.000681226 | 9.76E-05 | -0.000982865 | 0.001254147 | C9JMA2 | Mannan-binding lectin serine protease 1 (Fragment) | 566 |
| -0.000214878 | -0.000316842 | 0.00135293 | -0.000674262 | -0.00161356 | P48960-2 | Isoform 2 of CD97 antigen | 567 |
| ID     | Score | Description                                                                 |
|--------|-------|-----------------------------------------------------------------------------|
| 0.24E-05 | -0.00306941 | 0.00316814 0.000512024 0.0031285 0.000215835 4-trimethylaminobutyraldehyde dehydrogenase |
| 1.48E-05 | 0.000275733 | -0.00092435 0.00110379 0.009207 60S ribosomal protein L34 |
| 0.00846404 | -0.0282346 | 0.032513 0.0197997 -0.0033645 0.049327 Fatty acid synthase |
| 0.00513127 | 0.000604335 | -0.00819816 -0.00182551 0.0074268 0.049368 T-complex protein 1 subunit gamma |
| -0.000102087 | 0.000268205 | -2.16E-05 -0.00668933 0.000800732 0.049411 Elongation factor Tu, mitochondrial |
| -0.000213762 | 0.000845121 | 0.000121095 -0.00121933 0.001155628 ADA180GUVU0 Alpha-aminoadipic semialdehyde dehydrogenase (Fragment) |
| -0.00014464 | -0.00386234 | 0.00119995 0.00074702 -0.0029128 0.049588 Alanine–tRNA ligase, cytoplasmic |
| 0.000116084 | -0.001112167 | 0.0015137 0.00267772 0.00110171 0.049591 Serine–tRNA ligase, cytoplasmic |
| 0.00027776 | -0.00396565 | 0.00086151 -0.00242372 -0.000432438 0.049720 Proteasome subunit beta type-3 |
| -0.000233183 | 0.000348566 | 0.00102167 -0.000577295 0.00381694 0.049721 Proteasome subunit beta type-2 |
| 0.00107957 | 0.000127041 | -0.000179659 -0.000429757 0.0001253217 FSHAZ8 Thrombospondin-3 |
| -4.13E-05 | 0.000508954 | 0.000910304 -0.00057923 0.000915632 0.049748-2 Isoform 2 of Very-long-chain specific acyl-CoA dehydrogenase, mitochondrial |
| -4.25E-05 | -0.000209954 | 0.00039494 -0.000240431 -0.000265738 0.049756 RNA-binding protein 25 |
| 0.000208952 | -0.000713517 | 0.0008317 0.00143762 0.00023694 0.049888 Estrogen sulfotransferase |
| -0.000290881 | -0.000102926 | 0.000326029 -0.00115688 0.0010022 0.049915-2 Isoform 2 of GMP synthase (glutamine-hydrolyzing) |
| -0.000574189 | 0.000525339 | 0.00103117 -0.0033146 0.00224745 0.050281 Matrix metalloproteinase-14 |
| 4.40E-05 | -0.0038388 | 0.000210113 -0.000664558 0.00016057 0.050395 Rab GDP dissociation inhibitor beta |
| 4.62E-05 | -0.000159352 | -0.000130711 0.000469866 -0.00055893 0.050992 SERPINF1 Sertoli M1 |
| -2.07E-05 | -3.01E-05 | 0.000687445 0.000402992 -0.001930768 0.051731 Hsc70-interacting protein (Fragment) |
| 8.01E-06 | -0.00255867 | 0.000530453 0.000654685 -0.001677654 0.052052 Vasodilator-stimulated phosphoprotein |
| 0.00155309 | 0.00163406 | 0.00210568 0.000170852 0.00044636 0.052070-3 Isoform 3 of Dynamin-2 |
| 0.0023565 | 0.000244536 | -0.000172109 -0.00418325 -0.000178878 0.052083 E7EPB3 60S ribosomal protein L14 |
| 0.00477588 | -0.00199224 | -0.00985974 -0.00611044 0.00793578 0.052090 T-complex protein 1 subunit theta |
| 0.00172196 | -0.000962729 | -0.0109451 -0.00635795 0.0148984 0.052091 T-complex protein 1 subunit delta |
| 0.00111613 | -0.000762143 | 0.000202511 0.00102279 -0.00289913 0.052114 PS1148 Ras-related protein Rab-SC |
| 0.00161368 | -0.00047548 | 0.00226318 -0.0019597 -0.00155434 0.052149 Ras-related protein Rab-7a |
| 0.000257115 | 0.00372862 | -0.00649504 0.00635836 0.010619 0.052170 Galactokinase |
| Gene ID | Log2 Fold Change | p-value | Description |
|---------|-----------------|---------|-------------|
| P51665  | -1.874094       | 0.00187951 | Neuronal membrane glycoprotein M6-a (Fragment) |
| P51837-2 | -1.014094     | 0.00015367 | Isoform 2 of 3-oxo-5-beta-steroid 4-dehydrogenase |
| P51884  | -1.014094       | 0.00034684 | Lumican |
| P51991-2 | -1.014094     | 0.00046784 | Isoform 2 of Heterogeneous nuclear ribonucleoprotein A3 |
| P52209-2 | -1.014094     | 0.00065784 | Isoform 2 of Heterogeneous nuclear ribonucleoprotein M |
| P52907  | -1.014094       | 0.00084684 | Aldo-keto reductase family 1 member C2 |
| P53004  | -1.014094       | 0.00102684 | F-actin-capping protein subunit alpha-1 |
| P53236-4 | -1.014094     | 0.00102684 | Isoform 2 of Clathrin heavy chain 2 |
| P53396  | -1.014094       | 0.00102684 | Pituitary tumor-transforming gene 1 protein-interacting protein |
| P53634  | -1.014094       | 0.00102684 | Arginine--tRNA ligase, cytoplasmic |
| P54289-4 | -1.014094     | 0.00102684 | Isoform 4 of Voltage-dependent calcium channel subunit alpha-2/delta-1 |
| P54709  | -1.014094       | 0.00102684 | Sodium/potassium-transporting ATPase subunit beta-3 |
|          |          |          |          |          |                                      |          |
|----------|----------|----------|----------|----------|-------------------------------------|----------|
|          |          |          |          |          |          | Isoform B of Microfibrillar-          | 617      |
|          |          |          |          |          |          | associated protein 2                |          |
| -0.00012728 | -0.000122928 | -0.000298034 | 7.88E-06 | -0.000222785 | P55001-3                             |          |
| 0.000310553 | -9.95E-05 | 0.00124443 | 0.00166759 | -0.000257123 | P55060-3                             | Isoform 3 of Exportin-2 | 618      |
| -0.0040756 | -0.00093548 | 0.00149395 | -0.0156844 | -0.0104416 | P55072                                | Transitional endoplasmic reticulum ATPase | 619      |
| -0.00123372 | -0.00244167 | 0.00336591 | -0.00176476 | -0.000284094 | P55083                                | Microfibril-associated glycoprotein 4 | 620      |
| -0.000540634 | -0.00177725 | 0.00171139 | -0.000479006 | -0.00374666 | H0YHC3                                | Nucleosome assembly protein 1-like 1 (Fragment) | 621      |
| -8.96E-05  | -8.65E-05 | -0.000209782 | 3.54E-06 | -0.000156815 | D6RHU3                                | Caspase-6 (Fragment) | 622      |
| -0.000433473 | 0.000176399 | -0.000829315 | 0.0038191 | 0.0111935 | P55263-3                             | Isoform 3 of Adenosine kinase | 623      |
| -3.90E-05  | 0.000154096 | 2.21E-05 | -0.000222328 | 0.000283766 | P55290-5                             | Isoform 5 of Cadherin-13 | 624      |
| -0.000226412 | -2.69E-05 | 0.000523468 | -0.000374855 | 0.000363062 | P55735                                | Protein SEC13 homolog | 625      |
| 0.000169421 | -0.00021494 | 0.000607697 | -0.000249323 | -0.00182664 | P55786-2                             | Isoform 2 of Puromycin-sensitive aminopeptidase | 626      |
| -0.000751758 | -0.000385947 | 1.99E-05 | -0.000694738 | 0.00166223 | P55884                                | Eukaryotic translation initiation factor 3 subunit B | 627      |
| -0.000752007 | 0.000373795 | -0.000525599 | -0.00132897 | 0.00188781 | P56192                                | Methionine--tRNA ligase, cytoplasmic | 628      |
| 0.00012814  | -0.000796171 | 0.000419027 | 0.00100637 | -0.000318576 | P56537                                | Eukaryotic translation initiation factor 6 | 629      |
| 0.00928817 | 0.0136445 | 0.010005 | 0.083433 | -0.0406766 | P58166                                | Inhibin beta E chain | 630      |
| 0.000236066 | -0.000931761 | 0.00117617 | -0.00172938 | -0.00131518 | P58546                                | Myotrophin | 631      |
| -0.0000534963 | -0.000447465 | -0.000730327 | -0.000317675 | 0.00211853 | P59998                                | Actin-related protein 2/3 complex subunit 4 | 632      |
| 0.0408995 | 0.0213613 | 0.00359708 | 0.0657608 | -0.129816 | E9PK1                                 | Tetraspanin | 633      |
| -0.00107951 | -0.000512231 | -0.0018456 | -0.000211023 | -0.00211713 | P60174-1                             | Isoform 2 of Triosephosphate isomerase | 634      |
| -0.000554524 | -0.00010314 | -0.001157231 | -0.000707761 | -0.00179037 | P60201                                | Myelin proteolipid protein | 635      |
| -0.000581659 | 0.00010606 | 0.00109198 | -0.00193416 | 0.00118056 | E5RGA2                                | Eukaryotic translation initiation factor 3 subunit E | 636      |
| -0.00098868 | 0.00144652 | 0.00262593 | -0.00495585 | -0.010882 | F8W1R7                                | Myosin light polypeptide 6 | 637      |
| 0.0264574 | 0.00532614 | -0.164526 | 0.0558208 | 0.134401 | P6079 | Actin, cytoplasmic 1 | 638      |
| -0.00133242 | 0.00060159 | 0.00480489 | 0.000656673 | 0.0134878 | P60842                                | Eukaryotic initiation factor 4A-1 | 639      |
| 0.000550892 | 0.000935347 | -0.000680406 | -0.00148098 | 0.00235606 | P60866 | 40S ribosomal protein S20 | 640      |
| Gene ID  | Gene Name                  | p-value     | Log2 Fold Change | Gene ID  | Gene Name                  | p-value     |
|---------|----------------------------|-------------|------------------|---------|----------------------------|-------------|
| P61970  | Nuclear transport factor 2 | 0.000393484 | -0.00549603      | P61812  | Transforming growth factor beta | 0.000043521 |
| P61769  | 60S ribosomal protein L37a | 0.00346456  | -0.00537521      | P61090  | Proteasome subunit alpha type-6 | 0.00467843  |
|         |                            |             | 2.52E-05         | B1ALA9  | Ribose-phosphate pyrophosphokinase 1 | 0.0040721  |
| 4.96E-05| 60S ribosomal protein L15 subunit | -0.000395756 | -0.00591611      | P60900  | Proteasome subunit alpha type-6 | 0.000043521 |
| -7.63E-05| 60S ribosomal protein L26 | -0.00013466  | -0.00105486      | P60903  | Protein 5100-A10             | -0.000395756 |
| -0.00246922 | 60S ribosomal protein L37a | -0.000369722 | -0.00138994      | P60953  | Cell division control protein 42 homolog | 0.000467843 |
| 0.000953165 |                           | -0.000552147 | 0.0011616511     | P61006  | Ras-related protein Rab-8A    | -0.000552147 |
| -0.000582209 |                           | 0.0000462383 | -0.000831902     | P61019  | Ras-related protein Rab-2A    | 0.00013466  |
| 2.13E-05 |                           | 0.00013466  | -0.00105486      | P61026  | Ras-related protein Rab-10    | -0.00013466 |
| -7.63E-05|                           | 0.000206481 | -0.000958288      | P61081  | NEDD8-conjugating enzyme Ubc12 | 0.000369722 |
| -0.00036219 |                           | 0.00011991  | -0.00119691      | P61102  | Ras-related protein Rab-14 (Fragment) | -0.00036219 |
| -0.00027953 |                           | 0.0000300784 | -0.00428122      | P61158  | Actin-related protein 3       | 0.0000300784 |
| -0.00211198 |                           | 0.000241168 | 0.00265152       | P61160  | Actin-related protein 2       | -0.00211198 |
| 2.19E-07 |                           | 0.00019389  | 0.00193812       | P61221  | ATP-binding cassette sub-family E member 1 | 0.00019389 |
| 0.000231565 |                           | -0.000279257 | -0.00330918      | P61224  | ATP-binding cassette sub-family E member 1 | 0.000231565 |
| -6.40E-05| -0.000270443               | -9.63E-05   | -0.000270443     | P61224-3| Isoform 3 of Ras-related protein Rap-1b | -6.40E-05 |
| -0.00412117 |                           | -0.0131427  | -0.00342555      | P61224  | Isoform 3 of Ras-related protein Rap-1b | -0.00412117 |
| -0.00297402 |                           | -0.00182105 | 0.00220802       | D6RG13  | 40S ribosomal protein S3a (Fragment) | -0.00297402 |
| -0.00128464 |                           | -0.000894897 | -0.000116624     | J3QR07  | 60S ribosomal protein L26 (Fragment) | -0.00128464 |
| -2.26E-05| 8.92E-05                   | 1.28E-05    | -0.000128647     | K7EMD0  | Proteasome activator complex subunit 3 (Fragment) | -2.26E-05 |
| -0.00527303 |                           | 0.000281746 | 0.000446195      | P61313  | 60S ribosomal protein L15     | 0.000281746 |
| -0.00123744 |                           | 0.00040984  | 0.000455404      | P61353  | 60S ribosomal protein L27     | 0.00040984 |
| -0.00038636 |                           | 0.000573525 | -0.000114717     | MRDQA1  | 60S ribosomal protein L37a     | -0.00038636 |
| -0.000197959 |                          | -0.00422316 | 0.00363313       | P61586  | Transforming protein RhoA      | -0.000197959 |
| -0.000195139 |                          | 0.00130451  | -0.000649871     | P61769  | Beta-2-microglobulin         | -0.000195139 |
| -0.000176729 |                          | -0.000170687 | -0.00041823      | P61812  | Transforming growth factor beta-2 proprotein | -0.000176729 |
| 0.00116895 |                           | -0.00561698 | 0.00377061       | P61970  | Nuclear transport factor 2    | 0.00116895 |

**Table Notes:**
- p-values are calculated using statistical significance tests.
- Log2 Fold Change represents the fold change in expression.
- Gene IDs and names are abbreviated for simplicity.
| 0.00104853 | 0.000626597 | 0.000444006 | 0.000233123 | 0.00147697 | QST6W2 | Heterogeneous nuclear ribonucleoprotein K (Fragment) | 667 |
| 5.79E-05  | -0.00645705 | 8.86E-06 | -0.00110971 | 0.00160671 | P61981 | 14-3-3 protein gamma | 668 |
| 0.000228465 | -2.42E-05 | 6.24E-05 | 0.000491319 | -0.000431659 | BTZ317 | Tetraspanin | 669 |
| -0.000340244 | 0.000425194 | -0.00399054 | -0.00436798 | 0.00743911 | ADA2889623 | 40S ribosomal protein S7 (Fragment) | 670 |
| 0.000175275 | -0.00234458 | 0.00128996 | 0.000491319 | 0.00103322 | P62136 | Serine/threonine-protein phosphatase PP1-alpha catalytic subunit | 671 |
| 8.70E-05  | 0.00134216 | 0.00475151 | 0.00298095 | -0.00528719 | P62140 | Serine/threonine-protein phosphatase PP1-beta catalytic subunit | 672 |
| -0.00104935 | -0.000131697 | 0.000573222 | -0.00402621 | -0.0013992 | P62191 | 26S proteasome regulatory subunit 4 | 673 |
| -0.000724241 | 0.000604748 | -0.00460184 | -0.00355271 | -0.00158193 | P62195-2 | Isoform 2 of 26S proteasome regulatory subunit 8 | 674 |
| -0.0184109 | 0.0151087 | -0.00448683 | -0.0459845 | 0.0325662 | P62241 | 40S ribosomal protein S8 | 675 |
| -0.00483603 | -0.0010922 | 0.00196592 | -0.00978327 | 0.00446329 | P62249 | 40S ribosomal protein S16 | 676 |
| 0.000151228 | -0.000953513 | -0.00302792 | -3.50E-05 | -0.0069498 | P62258 | 40S ribosomal protein S14 (Fragment) | 677 |
| -0.000351485 | 0.00153093 | -0.00491866 | 0.00014203 | 0.000671711 | ADA2889811 | 40S ribosomal protein S14 | 678 |
| -0.000505404 | 0.00357554 | -0.00135317 | 4.78E-05 | -0.00295128 | P62266 | 40S ribosomal protein S23 | 679 |
| -0.00188061 | 0.00497433 | 0.00205144 | -0.00987853 | 0.00467135 | P62269 | 40S ribosomal protein S18 | 680 |
| -0.000139561 | 0.00149413 | -0.00650913 | -0.00139393 | -0.0093533 | P62273 | 40S ribosomal protein S29 | 681 |
| -0.00316114 | -0.00355445 | 0.00027268 | -0.0096271 | -0.00753716 | P62277 | 40S ribosomal protein S13 | 682 |
| -0.00776242 | 0.00709466 | -0.0104211 | -0.0175177 | 0.00893608 | P62280 | 40S ribosomal protein S11 | 683 |
| -0.000153133 | 0.00060542 | 8.67E-05 | -0.00873493 | 0.00111487 | P62304 | Small nuclear ribonucleoprotein E | 684 |
| -9.57E-05 | 0.000378391 | 5.42E-05 | -0.00054538 | 0.00069801 | J3QL87 | Small nuclear ribonucleoprotein Sm D1 | 685 |
| 0.000237774 | -0.00105606 | 8.79E-05 | -9.84E-05 | 0.0014101 | K7ERG4 | Small nuclear ribonucleoprotein Sm D2 | 686 |
| -0.000136391 | -0.000131727 | -0.000319367 | 8.44E-06 | -0.00238731 | P62318-2 | Isoform 2 of Small nuclear ribonucleoprotein Sm D3 | 687 |
| -0.000512304 | -4.99E-05 | -0.000728197 | 0.000624663 | 0.00107447 | P62330 | ADP-ribosylation factor 6 | 688 |
| Entry       | Description                                    | P62333 | 26S proteasome regulatory subunit 10B |
|-------------|------------------------------------------------|--------|-------------------------------------|
| P62424      | 60S ribosomal protein L7a                      |        |                                     |
| P62701      | 40S ribosomal protein 5A, X isoform            |        |                                     |
| P62736      | Actin, aortic smooth muscle                     |        |                                     |
| P62749      | 60S ribosomal protein L23a                     |        |                                     |
| P62805      | 40S ribosomal protein 56                       |        |                                     |
| P62806      | Histone H4                                      |        |                                     |
| P62807      | Ras-related protein Rab-1A                     |        |                                     |
| P62826      | GTP-binding nuclear protein Ran                 |        |                                     |
| P62834      | Ras-related protein Rap-1A                     |        |                                     |
| P62847      | Isoform 2 of 40S ribosomal protein S24         |        |                                     |
| P62851      | 40S ribosomal protein 525                      |        |                                     |
| P62854      | 40S ribosomal protein 526                      |        |                                     |
| P62861      | 40S ribosomal protein 530                      |        |                                     |
| P62873      | Isoform 2 of Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-1 |        |                                     |
| P62879      | Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-2 |        |                                     |
| P62898      | 60S ribosomal protein L30 (Fragment)           |        |                                     |
| P62906      | 60S ribosomal protein L31 (Fragment)           |        |                                     |
| P62907      | 60S ribosomal protein L10a                     |        |                                     |
| P62918      | 60S ribosomal protein L11 (Fragment)           |        |                                     |
| P62920      | 60S ribosomal protein L8 (Fragment)            |        |                                     |
| ID      | Description                                                                 | Description                                                                 | Score  |
|---------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------|
| -0.00273477 | -0.00532688 0.00599916 -0.00411179 -0.00999702 | P62937 Peptidyl-prolyl cis-trans isomerase A | 713 |
| -0.95E-05  | 0.000116812 1.67E-05 -0.000168535 0.000215108 | Q1JUQ5 Peptidylprolyl isomerase | 714 |
| -0.00249691  | -0.00233508 0.000283567 0.00545894 -0.00275619 | P62979 Ubiquitin-40S ribosomal protein 527a | 715 |
| -0.000410967  | 0.000235518 0.000392817 -0.00132711 0.000366218 | P62995-3 Isoform 3 of Transformer-2 protein homolog beta | 716 |
| -0.00348594  | 0.000425086 0.00322714 0.00220561 -0.00314369 | P63000 Ras-related C3 botulinum toxin substrate 1 | 717 |
| -0.000667972  | 0.000800546 -0.000410635 -0.000865472 0.000272395 | A0A07FWDY1 AP-2 complex subunit beta (Fragment) | 718 |
| -0.000829379  | -0.00131254 0.00174637 -0.00319637 -0.00441142 | P63104 14-3-3 protein zeta/delta | 719 |
| 0.000136643  | 0.000360084 0.000485378 -0.000514446 -0.00150235 | P63151 Serine/threonine-protein phosphatase 2A 55 kDa regulatory subunit B alpha isoform | 720 |
| 5.92E-05  | 0.00018999 -0.000162658 0.00191479 0.000588323 | Q26FJ2 Dynemin light chain 2, cytoplasmic | 721 |
| -0.000425173  | 3.15E-05 -0.000256583 -0.000684896 4.88E-05 | J3KT73 60S ribosomal protein L38 | 722 |
| -0.000909753  | 0.000418264 0.000253203 7.72E-05 -0.000340928 | Q8WVCZ 40S ribosomal protein S21 | 723 |
| 0.000305386  | -0.00325857 -0.000678768 -0.00222137 0.00460574 | IIL397 Eukaryotic translation initiation factor 5A (Fragment) | 724 |
| -0.00978577  | 0.000523291 0.0069345 -0.0220605 0.0286149 | P63244 Receptor of activated protein C kinase 1 | 725 |
| -4.58E-05  | 0.000181063 2.59E-05 -0.00261235 0.000333424 | P63313 Thymosin beta-10 | 726 |
| -0.000820702  | -0.00355326 0.00346904 0.00402834 0.00122889 | P67775 Serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform | 727 |
| 0.0020137  | 0.000264964 -0.000675399 0.000627862 -0.00770148 | P67809 Nuclease-sensitive element-binding protein 1 | 728 |
| -3.82E-05  | -0.000186877 0.000354915 -0.000216065 -0.000238807 | P67870 Casein kinase II subunit beta | 729 |
| -0.00800688  | -0.02736 0.0158543 0.00185265 -0.0349389 | P68104 elongation factor 1-alpha 1 | 730 |
| -0.0103752  | 0.0410187 0.00587745 -0.0591814 0.0753534 | P68363 Tubulin alpha-18 chain | 731 |
| -0.0382185  | -0.0088417 -0.030438 -0.0301562 -0.0646425 | P68366 Tubulin alpha-4A chain | 732 |
| 8.16E-05  | -0.000142579 5.34E-05 0.00109732 0.0020556 | P68366-2 Isoform 2 of Tubulin alpha-4A chain | 733 |
| -0.0783275  | -0.0235276 -0.0292544 -0.114708 0.0466674 | P68371 Tubulin beta-4B chain | 734 |
| -9.71E-05  | -3.84E-05 0.000150611 -0.000274491 0.000194291 | A0A2R8YDP2 Casein kinase II subunit alpha | 735 |
|       |        |        |                          |                          |                          |                          |                          |
|-------|--------|--------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
|       | -0.000323979 | -0.000178165 | 0.000176676              | -0.000772885             | -0.000148795             | P68402                  | Platelet-activating factor acetyhydrolase IB subunit beta |
|       | -0.0407334 | 0.116484 | -0.179505                | 0.10283                  | -0.105707                | K7EK07                  | Histone H3 (Fragment)   |
|       | -0.0947841 | -0.0806933 | -0.175884                | -0.014778                | -0.102094                | P68871                  | Hemoglobin subunit beta |
|       | -0.0425067 | -0.11453 | -0.114956                | -0.099008                | 0.120734                 | P69905                  | Hemoglobin subunit alpha |
|       | -0.000162736 | -0.000157172 | -0.000381056             | 1.01e-05                 | -0.000284845             | H7CS21                  | SRSF protein kinase 2 (Fragment) |
|       | 0.00127474 | 0.000570806 | -0.0102054               | -0.00695463              | 0.00864284               | P78371-2                | Isoform 2 of T-complex protein 1 subunit beta |
|       | 0.000805618 | -0.00250662 | 0.00137529               | 0.002148                 | -0.00322496              | QSTAO2                  | Glutathione S-transferase omega-1 (Fragment) |
|       | -4.85e-05 | 0.00794605 | 0.00320568               | 0.00634957               | 0.00873193               | P78527-2                | Isoform 2 of DNA-dependent protein kinase catalytic subunit |
|       | -0.000101247 | -0.000766988 | 0.00112736               | 0.000700872              | 0.00209181               | P78539-4                | Isoform 4 of Sushi repeat-containing protein SRPX |
|       | -0.0015157 | -0.00203808 | 0.000409184              | -0.00036586              | -0.0115882               | P83110                  | Serine protease HTRA3   |
|       | -0.00140985 | 9.86E-06 | -2.37e-05                | -0.00295607              | -0.00146656              | C5JKB8                  | 60S ribosomal protein L24 |
|       | 3.91e-05 | 0.000372574 | -0.00024233              | 0.000451768              | -0.00167066              | Q269KQ                  | 60S ribosomal protein L34-like |
|       | -0.000367791 | 0.00145408 | 0.000208351              | -0.00209793              | 0.00267767               | P84085                  | ADP-ribosylation factor 5 |
|       | -3.11e-05 | -0.000153739 | 0.000289194              | -0.000176055             | -0.000194586             | G3V279                  | Enhancer of rudimentary homolog |
|       | -0.0001051 | 0.000415517 | 5.95e-05                 | -0.000599503             | 0.000765168              | P84095                  | Rho-related GTP-binding protein Rhog |
|       | -0.00254678 | 0.00020559 | 0.000554335              | -0.00754737              | -0.000237801             | J3QK09                  | Ribosomal protein L19   |
|       | 0.000724487 | 0.00733229 | -0.000371683             | -0.00692056              | -0.001262753             | P88180                  | Basement membrane-specific heparan sulfate proteoglycan core protein |
|       | -4.94e-05 | 0.000195339 | 2.80e-05                 | -0.00028192              | 0.000359825              | H4Y9K9                  | Calcium-transporting ATPase type 2C member 1 (Fragment) |
|       | -0.000102088 | 0.000403609 | 5.78e-05                 | -0.000582322             | 0.000743239              | Q00266                  | S-adenosylmethionine synthase isoform type-1 |
|       | -0.21297 | -0.0328548 | -0.135289                | 0.227081                 | 0.45754                 | Q00610-2                | Isoform 2 of Clathrin heavy chain 1 |
|       | -0.000264796 | 0.000577718 | 0.000194356              | -0.00229574              | -0.00172374              | Q00765                  | Receptor expression-enhancing protein 5 |
|       | 9.13e-05 | 0.000159305 | 0.000543616              | 0.00133033               | -0.00314038              | H0YLA4                  | Sorbitol dehydrogenase |
|       | -0.000353247 | 0.000347391 | 0.00108926               | -0.00121265              | 0.00177217              | ADA1W2PP35              | Heterogeneous nuclear ribonucleoprotein U (Fragment) |
| Accession | Description | Log2 Fold Change | p-Value | FDR |
|-----------|-------------|-----------------|---------|-----|
| Q01082-3 | Isoform 2 of Spectrin beta chain, non-erythrocytic 1 | -0.000124779 | 7.07E-05 | 0.000711758 |
| J3KP15 | Serine/arginine-rich-splicing factor 2 (Fragment) | -2.33E-05 | -0.000375262 | 0.000163081 |
| H0YK10 | N-acetylgalactosamine kinase (Fragment) | -1.95E-05 | 9.62E-05 | 0.000578797 |
| Q01518-2 | Isoform 2 of Adenylyl cyclase-associated protein 1 | -0.000121423 | 0.000180929 | 0.000163081 |
| Q01581-2 | Isoform 2 of Hydroxymethylglutaryl-CoA synthase, cytoplasmic | 0.000313563 | 0.00202475 | 0.00239819 |
| Q02388-2 | Isoform 2 of Collagen alpha-1(VII) chain | 0.000204902 | 0.000428928 | 0.000226747 |
| Q02543-2 | Isoform 2 of 60S ribosomal protein L18a | 0.000641883 | 0.00116594 | 0.0004635 |
| Q02750-2 | Isoform 2 of Dual specificity mitogen-activated protein kinase kinase 1 | 0.000988434 | 0.000550822 | 0.000604996 |
| Q02809-2 | Isoform 2 of Procollagen-lysine,2-oxoglutarate 5-dioxygenase 1 | 0.0289105 | 0.0107061 | 0.00192791 |
| Q02878-2 | 60S ribosomal protein L6 | 0.00348636 | 0.000497396 | 8.20E-05 |
| Q02887-2 | Caveolin-1 | 0.00386058 | 0.00389122 | 0.0017402 |
| Q03135-2 | Caveolin-1 | 0.00438636 | -8.20E-05 | 0.00417402 |
| Q03405-2 | Caveolin-1 | -0.0011838 | -0.0011838 | 0.000287324 |
| Q04760-2 | Isoform 2 of Aldo-keto reductase family 1 member C1 | 1.96E-05 | 0.000411187 | 0.00140847 |
| Q04761-2 | Isoform 2 of Lactoylglutathione lyase | -0.0306069 | -0.0306069 | 0.00140847 |
| Q04828-2 | Isoform 2 of Proteolipid protein 2 | -4.26E-05 | 0.00016853 | 2.41E-05 |
| Q04941-2 | Isoform 2 of Proteolipid protein 2 | 3.71E-05 | 0.000146546 | 2.10E-05 |
| PDB Entry | Description                                                                 | -log10(p-value) | Gene/Protein Name                  |
|-----------|------------------------------------------------------------------------------|-----------------|-----------------------------------|
| Dynamin-1 | Tyrosine-protein phosphatase non-receptor type 12 (Fragment)                 | 780             | A0A0D95FB1                        |
| H0YC15    | Serine/arginine-rich-splicing factor 11 (Fragment)                           | 781             | -0.000102272                      |
| Q5T760    | Inter-alpha-trypsin inhibitor heavy chain H3                                 | 782             | -0.0000595897                     |
| A0A087WW43| Isoform 2 of 60S ribosomal protein L18                                        | 783             | -0.000341469                      |
| Q06210-2  | Glutamine--fructose-6-phosphate aminotransferase [isomerizing] 1             | 784             | -0.000595897                      |
| Q06278    | Aldehyde oxidase                                                             | 785             | -0.0001126141                     |
| Q06830    | Peroxiredoxin-1                                                              | 786             | -0.000275086                      |
| Q07020-2  | Isoform 2 of 60S ribosomal protein L18                                        | 787             | -0.0000114827                     |
| Q07666-3  | Isoform 3 of KH domain-containing, RNA-binding, signal transduction-associated protein 1 | 788             | -0.000127668                      |
| Q07954    | ATP-dependent RNA helicase A                                                 | 789             | -0.000100891                      |
| Q08211    | Kinesin light chain 1                                                        | 790             | -0.000233478                      |
| Q07960    | Ribosomal protein related protein 1                                          | 791             | -0.0000100891                     |
| Q08380    | Lactadherin                                                                  | 792             | -0.0000110968                     |
| Q08431    | Leukocyte surface antigen CD47 (Fragment)                                    | 793             | -0.000735608                      |
| Q08431    | Leukocyte surface antigen CD47 (Fragment)                                    | 794             | -0.0004164109                     |
| Q08431    | Leukocyte surface antigen CD47 (Fragment)                                    | 795             | -0.0003123453                     |
| Q08431    | Leukocyte surface antigen CD47 (Fragment)                                    | 796             | -0.000125177                      |
| Q08431    | Leukocyte surface antigen CD47 (Fragment)                                    | 797             | -0.00021279                       |
| Q08431    | Leukocyte surface antigen CD47 (Fragment)                                    | 798             | -0.00038544                      |
| Q08431    | Leukocyte surface antigen CD47 (Fragment)                                    | 799             | -0.00038544                      |
| Gene ID     | Description                                                                 | Expression Value | Description                                         |
|------------|------------------------------------------------------------------------------|------------------|-----------------------------------------------------|
| C9J5G4     | Follistatin-related protein 1 (Fragment)                                     | 5.59E-05         |                                                    |
| Q12874     | Splicing factor 3A subunit 3                                                | 3.47E-06         |                                                    |
| B4DLR2     | Prolyl endopeptidase FAP                                                     | 0.000308937      |                                                    |
| Q12907     | Vesicular integral-membrane protein VIP36                                   | -2.70E-05        |                                                    |
| Q13085     | Isopentenyl diphosphate synthase                                            | -6.87E-05        |                                                    |
| Q13200     | 26S proteasome non-ATPase regulatory subunit 2                              | -5.22E-05        |                                                    |
| Q13263     | Isoform 2 of Transcription intermediary factor 1-beta                        | -0.000160159     |                                                    |
| Q13308     | Isoform 5 of Inactive tyrosine-protein kinase 7                             | -3.36E-05        |                                                    |
| Q13325     | Isoform 2 of Interferon-induced protein with tetratricopeptide repeats 5    | -0.000402801     |                                                    |
| Q13509     | Tubulin beta-3 chain                                                        | -1.37E-05        |                                                    |
| Q13619     | Isoform 2 of Cullin-4A                                                      | -0.0160771       |                                                    |
| E9PKL9     | GDP-L-fucose synthase (Fragment)                                            | -2.34E-05        |                                                    |
| Q13547     | Histone deacetylase 1                                                       | -3.46E-05        |                                                    |
| Q13583     | Disintegrin and metalloproteinase domain-containing protein 9               | -0.00032064      |                                                    |
| Q13599     | Tubulin beta-3 chain                                                        | -1.81E-05        |                                                    |
| Q13619-2   | Isoform 2 of Cullin-4A                                                      | 1.17E-05         |                                                    |
| E9PKL9     | GDP-L-fucose synthase (Fragment)                                            | -0.00032064      |                                                    |
| Gene ID | Description                                                                 | isoform 1 | isoform 2 | isoform 3 | isoform 4 | isoform 5 | isoform 6 | isoform 7 | isoform 8 |
|--------|------------------------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Q13642 | Isoform 1 of Four and a half LIM domains protein 1                           |           |           |           |           |           |           |           |           |
| Q13740 | Isoform 2 of CD166 antigen                                                  |           |           |           |           |           |           |           |           |
| Q5STU3 | Spliceosome RNA helicase DDX39B                                             |           |           |           |           |           |           |           |           |
| Q13885 | Tubulin beta-2A chain                                                       |           |           |           |           |           |           |           |           |
| Q6RF44 | Heterogeneous nuclear ribonucleoprotein D0 (Fragment)                       |           |           |           |           |           |           |           |           |
| Q14118 | Isoform 2 of Nidogen-2                                                       |           |           |           |           |           |           |           |           |
| J3QLD9 | Flotillin-2                                                                 |           |           |           |           |           |           |           |           |
| Q14289 | Isoform LCRMP-4 of Dihydropyrimidinase-related protein 3                   |           |           |           |           |           |           |           |           |
| Q14240 | Eukaryotic initiation factor 4A-II                                          |           |           |           |           |           |           |           |           |
| J3QLD9 | Flotillin-2                                                                 |           |           |           |           |           |           |           |           |
| Q14289 | Isoform 2 of Protein-tyrosine kinase 2-beta                                |           |           |           |           |           |           |           |           |
| Q14315 | Isoform 2 of Filamin-C                                                        |           |           |           |           |           |           |           |           |
| Q14520 | Isoform 2 of Hyaluronan-binding protein 2                                   |           |           |           |           |           |           |           |           |
| Q14697 | Isoform 2 of Neutral alpha-glucosidase AB                                  |           |           |           |           |           |           |           |           |
| Gene ID | Description                     | Log2 Fold Change | p-Value     | Q-value   | gene ID | Description                              |
|---------|---------------------------------|-----------------|-------------|-----------|---------|------------------------------------------|
| Q14703  | Membrane-bound transcription factor site-1 protease | -5.41E-05       | 0.000407501 | -5.41E-05 | Q14703  | Membrane-bound transcription factor site-1 protease |
| Q14764  | Major vault protein              | -7.91E-05       | 0.000729631 | -7.91E-05 | Q14764  | Major vault protein                      |
| Q14974  | Importin subunit beta-1          | -4.13E-06       | 0.000267605 | -4.13E-06 | Q14974  | Importin subunit beta-1                  |
| Q14997  | Isoform 3 of Proteasome activator complex subunit 4 | -1.07E-05       | 0.000118622 | -1.07E-05 | Q14997  | Isoform 3 of Proteasome activator complex subunit 4 |
| Q15008  | 26S proteasome non-ATPase regulatory subunit 6 | -0.00219657     | 0.000209664 | -0.00219657 | Q15008  | 26S proteasome non-ATPase regulatory subunit 6 |
| Q15063  | Isoform 2 of 116 kDa U5 small nuclear ribonucleoprotein component | -0.0012854     | 0.000310247 | -0.0012854 | Q15063  | Isoform 2 of 116 kDa U5 small nuclear ribonucleoprotein component |
| Q15063  | Isoform 3 of Periostin           | -3.86E-05       | 0.000152542 | -3.86E-05 | Q15063  | Isoform 3 of Periostin                   |
| Q15063  | Isoform 5 of Periostin           | -5.61E-05       | 0.000435455 | -5.61E-05 | Q15063  | Isoform 5 of Periostin                   |
| Q15063  | Isoform 2 of Periostin           | -3.86E-05       | 0.000152542 | -3.86E-05 | Q15063  | Isoform 2 of Periostin                   |
| Q15063  | Isoform 3 of Periostin           | -3.86E-05       | 0.000152542 | -3.86E-05 | Q15063  | Isoform 3 of Periostin                   |
| Q15063  | Isoform 5 of Periostin           | -3.86E-05       | 0.000152542 | -3.86E-05 | Q15063  | Isoform 5 of Periostin                   |
| Q15063  | Isoform 2 of Periostin           | -3.86E-05       | 0.000152542 | -3.86E-05 | Q15063  | Isoform 2 of Periostin                   |
| Q15063  | Isoform 3 of Periostin           | -3.86E-05       | 0.000152542 | -3.86E-05 | Q15063  | Isoform 3 of Periostin                   |
| Q15063  | Isoform 5 of Periostin           | -3.86E-05       | 0.000152542 | -3.86E-05 | Q15063  | Isoform 5 of Periostin                   |
| Q15063  | Isoform 2 of Periostin           | -3.86E-05       | 0.000152542 | -3.86E-05 | Q15063  | Isoform 2 of Periostin                   |
| Q15063  | Isoform 3 of Periostin           | -3.86E-05       | 0.000152542 | -3.86E-05 | Q15063  | Isoform 3 of Periostin                   |
| Q15063  | Isoform 5 of Periostin           | -3.86E-05       | 0.000152542 | -3.86E-05 | Q15063  | Isoform 5 of Periostin                   |
| Gene Name                                                                 | Value 1            | Value 2            | Value 3            | Value 4            | Value 5            | Value 6            | Value 7            | Value 8            | Value 9            | Value 10          |
|--------------------------------------------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Elongin-C                                                                | 866                |                    |                    |                    |                    |                    |                    |                    |                    |                   |
| Elongin-B                                                                | 867                |                    |                    |                    |                    |                    |                    |                    |                    |                   |
| Isoprotein 2 of Angiopeptin-1                                            | 868                |                    |                    |                    |                    |                    |                    |                    |                    |                   |
| Splicing factor 38 subunit 3                                             | 869                |                    |                    |                    |                    |                    |                    |                    |                    |                   |
| Isoform 2 of Ras suppressor protein 1                                    | 870                |                    |                    |                    |                    |                    |                    |                    |                    |                   |
| Protein phosphatase 1 regulatory subunit 7 (Fragment)                    | 871                |                    |                    |                    |                    |                    |                    |                    |                    |                   |
| Regucalcin                                                               | 872                |                    |                    |                    |                    |                    |                    |                    |                    |                   |
| Isoform 4 of Microtubule-associated protein RP/EB family member 2        | 873                |                    |                    |                    |                    |                    |                    |                    |                    |                   |
| Transforming growth factor beta-induced protein Ig-h3                    | 874                |                    |                    |                    |                    |                    |                    |                    |                    |                   |
| Neutral amino acid transporter 8(0)                                      | 875                |                    |                    |                    |                    |                    |                    |                    |                    |                   |
| Vesicle-associated membrane protein 3                                    | 876                |                    |                    |                    |                    |                    |                    |                    |                    |                   |
| Ras-related protein Rab-11B                                              | 877                |                    |                    |                    |                    |                    |                    |                    |                    |                   |
| Zinc finger and BTB domain-containing protein 6                          | 878                |                    |                    |                    |                    |                    |                    |                    |                    |                   |
| Septin-7                                                                 | 879                |                    |                    |                    |                    |                    |                    |                    |                    |                   |
| Proteasomal ubiquitin receptor ADRM1                                     | 880                |                    |                    |                    |                    |                    |                    |                    |                    |                   |
| Isoform 2 of insulin-like growth factor-binding protein 7                | 881                |                    |                    |                    |                    |                    |                    |                    |                    |                   |
| Ewsosin-3                                                                | 882                |                    |                    |                    |                    |                    |                    |                    |                    |                   |
| Isoform 2 of 26S proteasome non-ATPase regulatory subunit 5              | 883                |                    |                    |                    |                    |                    |                    |                    |                    |                   |
| DNA damage-binding protein 1                                             | 884                |                    |                    |                    |                    |                    |                    |                    |                    |                   |
| Isoform 2 of Dihydropyrimidinase-related protein 2                       | 885                |                    |                    |                    |                    |                    |                    |                    |                    |                   |
| Synaptophysin-like protein 1 (Fragment)                                  | 886                |                    |                    |                    |                    |                    |                    |                    |                    |                   |
| Histone-binding protein RBBP7                                            | 887                |                    |                    |                    |                    |                    |                    |                    |                    |                   |
| Extracellular matrix protein 1                                           | 888                |                    |                    |                    |                    |                    |                    |                    |                    |                   |
| Gene Symbol | P-value | FDR | Description                  |
|-------------|---------|-----|-------------------------------|
| -0.00036083 | -0.000494742 | -0.000332932 | -0.00277817 | Q16629-3 |Isoform 3 of Serine/arginine-rich splicing factor 7 |
| 1.96E-05    | -3.43E-05 | 1.28E-05 | 0.000264247 | Q6RCR4 | Drebrin (Fragment) |
| 0.00125033  | -5.02E-05 | -0.000168711 | 0.00399935 | Q16658 | Fascin |
| -3.10E-05   | 0.000201464 | 2.89E-05 | -0.00290671 | Q16719 | Kynurenamse |
| -4.51E-05   | 0.000178453 | 2.56E-05 | -0.000257471 | Q16772 | Glutathione S-transferase A3 |
| -0.0282338  | 0.133695 | 0.176505 | -0.13948 | -0.355331 | Q16777 | Histone H2A type 2-C |
| -0.000461103 | 0.000574311 | -0.000293338 | -0.00041756 | Q16853 | Membrane primary amine oxidase |
| -1.05E-05   | 4.16E-05 | 5.96E-06 | -6.00E-05 | 7.66E-05 | E9PQ13 | Thioredoxin reductase 1, cytoplasmic (Fragment) |
| -0.000334083 | 0.00132082 | 0.000189256 | -0.00190566 | 0.00243226 | H0YX2 | DNA-binding protein RFX7 |
| -3.52E-05   | 0.000154832 | 2.22E-05 | -0.000223389 | 0.00028512 | Q31612 | HLA class I histocompatibility antigen, B-73 alpha chain |
| 0.00216378  | -0.000987984 | 0.00241549 | 0.00574517 | -0.00225771 | Q32P28-4 | Isoform 4 of Prolyl 3-hydroxylase 1 |
| -0.003355266 | -0.00359327 | -0.00124944 | -0.0156461 | -0.00857183 | Q2XCM7 | Tubulin beta-8 chain |
| -0.000118149 | -0.000158994 | 0.000400303 | -0.000721827 | 0.00211382 | Q2XCW2 | Galactin-related protein |
| 0.00039602  | 0.000515328 | 0.000991018 | 0.000207659 | 0.00161953 | Q53H96-2 | Isoform 2 of Pyrroline-5-carboxylate reductase 3 |
| 8.90E-05    | -0.00139113 | 0.0013694 | 0.000495631 | -0.0025427 | Q58F8 | Putative heat shock protein HSP 90-beta 2 |
| -8.81E-06   | 3.48E-05 | 4.99E-06 | -5.03E-05 | 6.42E-05 | Q5IFH9-2 | Isoform 2 of RRP12-like protein |
| -0.000227387 | 6.21E-05 | -1.25E-05 | -0.00139921 | -0.0024036 | Q55SJ5 | Heterochromatin protein 1-binding protein 3 |
| -0.00539244 | 0.00171473 | -0.00465109 | -0.00725464 | -0.00681001 | Q5T47-3 | Isoform 3 of E3 ubiquitin-protein ligase UBR4 |
| -6.30E-05   | 0.00024893 | 3.57E-05 | -0.000359153 | 0.0004584 | ADA2R8VCY2 | Protein furry homolog |
| -8.15E-06   | 3.22E-05 | 4.62E-05 | -4.65E-05 | 5.93E-05 | H35L7 | Vacuolar protein sorting-associated protein 13D (Fragment) |
| -0.000154589 | -0.000436834 | 0.000877524 | -0.00182025 | 3.76E-05 | CD276 antigen |
| 0.00390547  | -0.000929137 | 0.000853464 | 0.00338448 | 0.00194472 | Q68BL8 | Olfactomedin-like protein 2B |
| 6.77E-05    | 0.000267694 | 3.84E-05 | -0.000386226 | 0.000492954 | F5N617 | Atlastin 3 |
| -2.28E-05   | 0.90E-05 | 1.29E-05 | -0.000129803 | 0.000165672 | Q6N2ZI-2 | Isoform 2 of Caveolae-associated protein 1 |
| 2.89E-05    | -0.000217768 | 0.000391921 | -2.29E-05 | -0.000301277 | Q96GK7 | Fumarylacetoacetate hydrolase domain-containing protein 2A |
| 0.00090304 | 0.00113051 | -0.000183067 | 0.00203235 | -0.00475207 | Q6UVK1 | Chondroitin sulfate proteoglycan 4 | 914 |
| 7.06E-05 | -2.19E-05 | 0.000308014 | -0.00100699 | 6.11E-05 | Q6UXN9 | WD repeat-containing protein 82 | 915 |
| -5.75E-05 | 0.000227196 | 3.26E-05 | -0.000227795 | 0.000418377 | Q6UVY4-2 | Isoform 2 of ADAMTS-like protein 4 | 916 |
| -6.39E-05 | 5.3E-05 | 2.39E-05 | -0.000628344 | 0.000106963 | Q8YHK3-2 | Isoform 2 of CD109 antigen | 917 |
| -0.000810288 | 0.00022067 | 0.000278508 | -0.000699359 | -0.00229574 | Q6ZJN1-2 | Isoform 2 of Neurobeachin-like protein 2 | 918 |
| 0.000480435 | 0.00010353 | 0.000120677 | 0.000780015 | -0.000508059 | Q6UX7 | LHFPL tetraspan subfamily member 2 protein | 919 |
| -3.07E-05 | 0.000121305 | 1.74E-05 | -0.000175017 | 0.000223381 | K7EQ37 | Protein unc-13 homolog D (Fragment) | 920 |
| -0.139048 | -5.62E-05 | -0.100542 | -0.16364 | -0.132406 | Q7IUJ6 | Tubulin alpha-1A chain | 921 |
| 0.000124652 | 0.000352981 | 0.000879184 | -0.00108556 | -0.00170407 | Q76LX8-3 | Isoform 3 of A disintegrin and metalloproteinase with thrombospondin motifs 13 | 922 |
| 0.000133134 | -0.000232753 | 8.71E-05 | 0.00179131 | 0.00360046 | Q76MP6 | Coiled-coil domain-containing protein 80 | 923 |
| -0.00047895 | -0.00130244 | -0.000438859 | 0.000673555 | 0.00297483 | Q7XF4 | Staphylococcal nuclease domain-containing protein 1 | 924 |
| -0.000188765 | -0.000356451 | 0.000191503 | -0.0005424 | -0.000113929 | Q7L2H7 | Eukaryotic translation initiation factor 3 subunit M | 925 |
| -0.000489126 | 4.15E-05 | 0.000896779 | 0.00109626 | -0.000513783 | Q7L576-2 | Isoform 2 of Cytoplasmic FMRI-interacting protein 1 | 926 |
| -0.000491407 | -0.000187312 | -0.000454522 | -0.000197312 | 0.000100678 | Q7LDG7 | RAS guanyl-releasing protein 2 | 927 |
| 0.0187926 | 0.00464624 | -0.00042517 | 0.0482842 | 0.00246749 | Q7J3D4 | MAM domain-containing protein 2 | 928 |
| -5.62E-05 | 0.000222296 | 3.19E-05 | -0.000320727 | 0.000409355 | Q7ZOC6-3 | Isoform 3 of Autophagy-related protein 9A | 929 |
| -2.77E-05 | -0.000136948 | 0.00025761 | -0.000156828 | -0.000173335 | Q7Z3U7-2 | Isoform 2 of Protein MON2 homolog | 930 |
| -0.000275789 | -0.00184513 | 0.000275922 | -0.00346564 | 0.00448468 | J3Q545 | L-xylulose reductase (Fragment) | 931 |
| -2.98E-05 | -0.000196482 | 0.000369598 | -0.000225004 | -0.000248687 | Q90586 | Hyaluronan and proteoglycan link protein 3 | 933 |
| 0.00339146 | -0.0158036 | 0.0164703 | 0.00895639 | 0.0270915 | Q86UX7-2 | Isoform 2 of Fermitin family homolog 3 | 934 |
| -0.000321118 | 0.000404296 | 0.000835991 | -0.00116293 | 0.000835667 | Q8VP6-2 | Isoform 2 of Cullin-associated NEDD8-dissociated protein 1 | 935 |
| -7.96E-06 | 3.15E-05 | 4.51E-06 | -4.54E-05 | 5.80E-05 | Q86X95 | Corepressor interacting with RBP1 | 936 |
|   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|
| 0.0001013941 | -0.000139506 | 0.000760167 | 0.00271162 | 0.000811857 | Q86YZ3 | Hornerin |
| -3.75E-05 | 0.000227307 | 3.26E-05 | -0.000327956 | 0.000418582 | Q8WAS-3 | Isoform 3 of Choline transporter-like protein 2 |
| 0.00136996 | -0.000549548 | -0.00137188 | 0.00269532 | 0.00337379 | Q8WUS-2 | Isoform 2 of Extracellular sulfatase Sulf-2 |
| -1.70E-05 | 6.73E-05 | 9.64E-06 | -9.71E-05 | 0.000123911 | Q9PQ36 | Isoform 3 of Signal peptide, CUB and EGF-like domain-containing protein 2 |
| -0.000186261 | 0.000736394 | -0.000549548 | -0.00137188 | 0.00269532 | Q8IWA5 | - |
| 0.00106054 | -0.1128 | -0.139679 | 0.121418 | -0.307827 | Q8WUS-2 | Isoform 3 of Signal peptide, CUB and EGF-like domain-containing protein 2 |
| 0.000110563 | 0.000253673 | 0.00142418 | 0.000867018 | 0.00486984 | Q8IWA5 | - |
| 0.0020023 | 0.000306684 | -0.00130244 | -0.00423719 | 0.00113728 | Q8IWA5 | - |
| 0.000326969 | -0.000745046 | 0.000490878 | -0.000597445 | -0.00105861 | Q8WUS-2 | Isoform 3 of Signal peptide, CUB and EGF-like domain-containing protein 2 |
| -2.23E-05 | 8.81E-05 | 1.26E-05 | -0.000127159 | 0.000162298 | Q8IWA5 | - |
| -6.31E-05 | 0.000249291 | 3.57E-05 | -0.000359674 | 0.000459065 | Q8WUS-2 | Isoform 3 of Signal peptide, CUB and EGF-like domain-containing protein 2 |
| -4.11E-05 | 0.000577606 | 0.000938963 | 0.00020434 | 0.000907673 | Q8IWA5 | - |
| -0.000142816 | 0.000564631 | 8.09E-05 | -0.000814643 | 0.00103976 | Q8WUS-2 | Isoform 3 of Signal peptide, CUB and EGF-like domain-containing protein 2 |
| -0.000222407 | -0.019099 | 0.0029343 | 0.00113728 | -0.000729115 | Q8WUS-2 | Isoform 3 of Signal peptide, CUB and EGF-like domain-containing protein 2 |
| 0.000221945 | -0.000120411 | -0.000139325 | 0.000170812 | 0.000939755 | Q8WUS-2 | Isoform 3 of Signal peptide, CUB and EGF-like domain-containing protein 2 |
| -3.73E-05 | 0.000147531 | 2.11E-05 | -0.000212857 | 0.000271677 | Q8WUS-2 | Isoform 3 of Signal peptide, CUB and EGF-like domain-containing protein 2 |
| 0.000244491 | -0.00126907 | -0.0024842 | -0.0002679 | -0.00422031 | Q8WUS-2 | Isoform 3 of Signal peptide, CUB and EGF-like domain-containing protein 2 |
| 0.000331108 | -0.00319788 | -0.00075312 | 2.03E-05 | -0.000579556 | Q8WUS-2 | Isoform 3 of Signal peptide, CUB and EGF-like domain-containing protein 2 |
| 0.000128546 | 0.000508213 | 7.28E-05 | -0.000733244 | 0.000935867 | Q8WUS-2 | Isoform 3 of Signal peptide, CUB and EGF-like domain-containing protein 2 |

Dihydrofolate reductase 2, mitochondrial (Fragment)
| Q9YN7 | Signal peptide peptidase-like 2A (Fragment) | 957 |
| Q8TDGB-2 | Isoform 2 of Mitogen-activated protein kinase 15 | 958 |
| Q8TDN6 | Ribosome biogenesis protein BRK1 homolog | 959 |
| Q8WTVO-4 | Isoform 4 of Scavenger receptor class B member 1 | 960 |
| Q8WUA8 | Isoform 4 of Scavenger receptor class B member 1 | 961 |
| Q8WUJ3 | Isoform 4 of Scavenger receptor class B member 1 | 962 |
| Q8WUM4 | Programmed cell death 6-interacting protein | 963 |
| Q8WWV3-3 | Isoform 3 of Choline transporter-like protein 1 | 964 |
| Q8WWZ8 | Oncoprotein-induced transcript 3 protein | 965 |
| Q92499 | Isoform 3 of ATP-dependent RNA helicase DDX1 | 966 |
| Q92522 | Histone H1x | 967 |
| Q92522 | Histone H1x | 968 |
| Q8WUJ3 | Isoform 4 of Scavenger receptor class B member 1 | 969 |
| Q92626 | Peroxidasin homolog | 970 |
| Q92626 | Peroxidasin homolog | 971 |
| Q92626 | Peroxidasin homolog | 972 |
| Q92626 | Peroxidasin homolog | 973 |
| Q92626 | Peroxidasin homolog | 974 |
| Q92626 | Peroxidasin homolog | 975 |
| Q92626 | Peroxidasin homolog | 976 |
| Q92626 | Peroxidasin homolog | 977 |
| Accession | Gene Name | Description | E-Value |
|-----------|-----------|-------------|---------|
| Q93008-1 | Isoform 2 of Probable ubiquitin carboxyl-terminal hydrolase FAF-X | | 978 |
| Q93063 | Exostosin-2 | | 979 |
| Q93088 | Betaine-homocysteine S-methyltransferase 1 | | 980 |
| Q93099 | Homogentisate 1,2-dioxygenase | | 981 |
| Q969E2-2 | Isoform 2 of Secretory carrier-associated membrane protein 4 | | 982 |
| Q969P0 | Immunoglobulin superfamily member 8 | | 983 |
| Q969URM8 | Fermitin family homolog 2 (Fragment) | | 984 |
| Q96BI3-3 | Isoform 3 of Gamma-secretase subunit APH-1A | | 985 |
| Q96CN2B | ADP-ribosylation factor-like protein 1B | | 986 |
| Q96C12-3 | Isoform 3 of Armadillo repeat-containing protein 5 | | 987 |
| Q96C12-2 | Isoform 2 of AP-2 complex subunit mu | | 988 |
| Q96G03 | Phosphoglucomutase-2 | | 989 |
| Q96CG7 | Multiple epidermal growth factor-like domains protein Luc7-like 2 | | 990 |
| Q96GK4-2 | Isoform 2 of Cytosolic non-specific dipeptidase | | 991 |

**Note:** E-Values are provided for each accession number.
| E-value | MOWSE Score | SwissProt ID | Description |
|--------|-------------|--------------|-------------|
| -2.09E-05 | 8.28E-05 | Q96ME1-2 | Isoform 2 of F-box/LRR-repeat protein 18 |
| -0.000278996 | 0.001158559 | Q96PD5 | N-acetylmuramoyl-L-alanine amidase |
| -0.00017448 | 9.88E-05 | Q06QK1 | Vacular protein sorting-associated protein 2 |
| -0.000205186 | 0.000116237 | Q96TA1 | Sodium-coupled neutral amino acid transporter 2 |
| -0.000729328 | 0.000674934 | Q99627 | Calponin-2 |
| -0.0001781 | 0.0024896 | Q99460 | Isoform 2 of 26S proteasome non-ATPase regulatory subunit 1 |
| -0.0002363 | -1.67E-05 | Q99536 | Synaptic vesicle membrane protein VAT-1 homolog |
| -0.00011781 | 0.000474934 | Q99627-2 | Isoform 2 of COP9 signalosome complex subunit 8 |
| -0.000125824 | -8.00E-05 | Q99633 | Collagen alpha-1(XII) chain |
| -2.78E-05 | 0.000110077 | Q99633 | Transmembrane 9 superfamily member 2 |
| 0.000550665 | 0.000161616 | Q99633 | Equilibrative nucleoside transporter 1 |
| -0.000135065 | 0.000161616 | Q99633 | Isoform 3 of T-complex protein 1 subunit eta |
| -0.000125824 | -8.00E-05 | Q99633 | Transmembrane 9 superfamily member 2 |
| -2.39E-05 | 0.000118137 | Q99633 | Semaphorin 3C |
| 2.55E-05 | 0.000168179 | Q99633 | Growth/differentiation factor 15 |
| -4.29E-05 | 0.000169585 | Q99633 | Methylosome protein 50 (Fragment) |
| -0.00023345 | 0.00017239 | Q99633 | Tubulin alpha-1C chain |
| -0.000359415 | 4.67E-06 | Q99633 | Myb-binding protein 1A (Fragment) |
| 0.00088311 | -0.0001288 | Q99633 | Coronin |
| 0.00118457 | -0.00033921 | Q99633 | Protein tweety homolog |
| Gene                      | Value       | Description                                                                 | Type   |
|---------------------------|-------------|-----------------------------------------------------------------------------|--------|
| -3.65E-05                 | 0.000144312 | 2.07E-05 0.0000208211 0.000265747 | Q9BJ8  | Extended synaptotagmin-1 | 1021  |
| 0                         | 0           | 0 0 0 | D6RY3  | Spondin-2 (Fragment) | 1022  |
| -0.000244948              | -0.000356569| 0.000299521 -0.00073786 0.00124233 | Q9BVF5 | Tubulin beta-6 chain | 1023  |
| -0.000458209              | 0.00012768  | -0.000738685 -0.000285309 0.001238376 | Q9BDW1 | Acetyl-CoA acetyltransferase, cytosolic | 1024  |
| -0.000292752              | -0.000227845| -0.000215718 -0.0002914 -0.00224616 | Q9BKJ4 | Complement C1q tumor necrosis factor-related protein 3 | 1025  |
| -0.000220135              | -7.45E-05   | 0.00105181 -0.0012508 0.000165015 | Q9BKJ9 | N-alpha-acetyltransferase 15, NatA auxiliary subunit | 1026  |
| -0.000269602              | 0.00120056  | -0.000847883 -0.00148371 -0.00053628 | Q9BRN1 | Asporin | 1027  |
| -5.26E-05                 | 0.0000208126| 2.98E-05 -0.000300282 0.000383261 | K7EP4  | AP-1 complex subunit mu-2 (Fragment) | 1028  |
| -7.87E-05                 | -0.000514253| 1.15E-05 -0.000852529 0.0018852 | Q9BZQ8 | Protein Niban | 1029  |
| 0.0031064                 | 0.000290551 | 0.000245975 0.00014652 -0.00983187 | Q9CDH2-2 | Isoform 2 of Protein tweety homolog 3 | 1030  |
| -2.94E-05                 | -0.000552326| -0.000407085 0.000680569 0.00208774 | Q9H0U4 | Ras-related protein Rab-1B | 1031  |
| -0.00012306               | 0.000168853 | 0.000129621 -0.000380238 0.0001397917 | 84DDG1 | Protein FAM234A | 1032  |
| 0.00107                   | 0.0000562173| -2.44E-05 0.00331776 0.00345934 | Q9H1J7 | Protein Wnt-5b | 1033  |
| -0.000222816              | 0.0000880914| 0.000126224 -0.00127097 0.00162219 | Q9H223 | EM domain-containing protein 4 | 1034  |
| -9.42E-05                 | 0.0000372271| 5.33E-05 -0.000537108 0.00068553 | Q9H2A2-2 | Isoform 2 of 2-aminomuconic semialdehyde dehydrogenase | 1035  |
| -0.000629987              | 0.000249069 | 0.000356883 -0.00359353 0.00438656 | Q9H2D6-6 | Isoform 6 of TRIO and F-actin-binding protein | 1036  |
| -0.000230219              | 0.0000910185| 0.000130418 -0.0013132 0.00167609 | Q9H2M3-2 | Isoform 2 of 5-methyltetrahydrofolate-homocysteine S-methyltransferase BHMT2 | 1037  |
| -5.15E-05                 | 0.0000203699| 2.92E-05 -0.000298394 0.000375108 | Q9H3Z4-2 | Isoform 2 of DnaJ homolog subfamily C member 5 | 1038  |
| 0.000319003               | 8.34E-05    | 0.000874935 0.000297909 0.00171254 | Q9H4A4 | Aminopeptidase B | 1039  |
| -0.101362                 | -0.0115343  | -0.0661876 -0.147476 -0.0642477 | Q9H4B7 | Tubulin beta-1 chain | 1040  |
| -0.00766958               | -0.00370353 | 0.000292469 0.00902918 0.0166151 | Q9H4MT9 | EM domain-containing protein 1 | 1041  |
| -0.000467453              | 3.61E-06    | -2.37E-05 -0.00109953 0.0001773397 | QSVXN0 | Ribosome production factor 2 homolog (Fragment) | 1042  |
| 0                         | 0           | 0 0 0 | I3L4CS | Ubiquitin-conjugating enzyme E2 Z (Fragment) | 1043  |
| Gene Name                  | FASTA ID | Description                                                                 | Protein ID | Gene ID |
|---------------------------|----------|------------------------------------------------------------------------------|------------|---------|
| Septin 11, isoform CRA_b  | Q9NTK5   | Phenylalanine-(Fragment)                                                       |            |         |
| Olfactomedin cDNA FLJ58142, highly similar to (Fragment) | Q9NQX4   |                               |            |         |
| Isoform 2 of Nucleolar RNA helicase 2 | Q9NR30-2 |                                |            |         |
| GTP-binding protein SAR1a | Q9NR31   |                                |            |         |
| Sialic acid synthase      | Q9NR45   |                                |            |         |
| Platelet-derived growth factor C (Fragment) | Q9JYN2   |                                |            |         |
| cDNA FLJ58142, highly similar to Olfactomedin-like protein 3 | Q9JYN2   |                                |            |         |
| CREB/ATF 6ZIP transcription factor (Fragment) | J3KN20   |                                |            |         |
| Isoform 2 of Teneurin-2   | Q9NT68-2 |                                |            |         |
| Protein DEPP1             | Q9NTK1   |                                |            |         |
| Ornithine carbamoyltransferase 1 (Fragment) | Q5NTK5   |                                |            |         |
| Septin 11, isoform CRA_b  | Q9NSD9   | Phenylalanine--tRNA ligase beta subunit                                       |            |         |
| Protein DEPP1             | Q9NTK1   |                                |            |         |
| Gene ID | Description |
|--------|-------------|
| Q9NY15 | Stabilin-1 |
| D6RD48 | Claudin domain-containing protein 1 (Fragment) |
| M0YD14 | Myoferlin (Fragment) |
| Q9ZN3  | EM domain-containing protein 3 |
| Q9ZN4  | EM domain-containing protein 2 |
| Q9POLO | Vesicle-associated membrane protein-associated protein A |
| Q9P126 | Isoform 2 of C-type lectin domain family 1 member B |
| Q9UBG0 | C-type mannose receptor 2 |
| Q9UBI6 | Guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma 12 |
| Q9UBQ0 | Vacuolar protein sorting-associated protein 29 |
| K7ES31 | Eukaryotic translation initiation factor 3 subunit K |
| Q9UGM3 | Glyoxylate reductase/hydroxypyruvate reductase |
| Q9UHN6 | Isoform 2 of Cell surface hyaluronidase |
| ID       | Description                                              | Value| P-value | Log10(p-value) | References |
|----------|----------------------------------------------------------|------|---------|----------------|------------|
| 0.0002359644 | 3.72E-05                                                 | 0.000374612 | 0.000478131 | MDQXH5 | PRA1 family protein (Fragment) | 1091 |
| 0.00013302 | 1.91E-05                                                 | -0.000191919 | 0.000244954 | Q9UA9 | Exportin-7 | 1092 |
| 0.0002213692 | 3.06E-05                                                 | -0.000308112 | 0.00039351 | Q9UW2 | Plexin-A1 | 1093 |
| -0.000196522 | 0.000244338                                              | 0.00020522 | 0.000100316 | HTC286 | N-acetyl-D-glucosamine kinase | 1094 |
| -6.37E-05 | -7.30E-05                                                 | -8.07E-05 | 0.000244954 | Q9UJX2-3 | Isoform 3 of Cell division cycle protein 2 homolog | 1095 |
| 0.000584062 | 0.000688559                                              | 0.000152465 | 0.000374612 | Q9UKK3 | Protein mono-ADP-ribosyltransferase PARP4 | 1096 |
| -0.000856807 | -0.000479069                                             | 0.00984304 | 0.000244954 | Q9UKU9 | Angiopoietin-related protein 2 | 1097 |
| 0.000791301 | 0.000139461                                              | 0.00188611 | 0.000244954 | Q9UKX5 | Integrin alpha-11 | 1098 |
| -0.000173237 | 9.76E-05                                                 | 0.00013253 | 0.00188611 | CSYX9 | Procollagen C-endopeptidase enhancer 2 | 1099 |
| 0          | 0                                                        | 0     | 0       | GSE9K1 | Integrator complex subunit 6, isoform CBA_c | 1100 |
| -0.00024338 | -0.00016091                                              | 0.000422012 | 0.000688559 | E7EMB6 | Aspartyl aminopeptidase | 1101 |
| 0.000211103 | 0.000504213                                              | 0.000886963 | 0.000374612 | Q9ULF5 | Zinc transporter ZIP10 | 1102 |
| 6.74E-05 | 0.00017588                                               | 0.000995272 | 0.000374612 | Q9ULI3 | Protein HEG homolog 1 | 1103 |
| -0.000678768 | -0.000227484                                             | 0.000291912 | 0.000374612 | Q9ULV4 | Coronin-1C | 1104 |
| 0.000989099 | 0.000125191                                              | -8.50E-05 | 0.000374612 | Q9UMS4 | Pre-mRNA-processing factor 19 | 1105 |
| -0.000106743 | 0.000422012                                             | -0.000688559 | 0.000374612 | G3V5B5 | Protein NDRG2 (Fragment) | 1106 |
| -6.05E-05 | -5.84E-05                                                | 3.74E-06 | -0.000105879 | Q9UN37 | Vacular protein sorting-associated protein 4A | 1107 |
| -0.000373411 | -0.000141642                                             | 0.000596101 | 0.000374612 | Q9UNH7-2 | Isoform 2 of Sorting nexin-6 | 1108 |
| -5.36E-05 | 0.000211776                                              | 0.000305549 | 0.000374612 | Q9UNK4 | Group ID secretory phospholipase A2 | 1109 |
| -0.000497298 | 0.000129593                                              | -0.00043575 | 0.000374612 | Q9UNM6 | Z6S protease non-ATPase regulatory subunit 13 | 1110 |
| -2.07E-05 | -0.000120466                                             | -0.000120466 | 0.000374612 | A0A0U1RQQ4 | Endothelial protein C receptor (Fragment) | 1111 |
| -0.000823238 | 0.000466358                                              | 0.0059935 | 0.000374612 | E9PKY5 | Peptidyl-prolyl cis-trans isomerase (Fragment) | 1112 |
| 0          | 0                                                        | 0     | 0       | HOY390 | Microtubule-actin cross-linking factor 1, isoforms 1/2/3/5 (Fragment) | 1113 |
| -7.57E-05 | -0.000163177                                             | -0.00060148 | 0.000374612 | Q9UPYS | Cystine/glutamate transporter | 1114 |
| ID     | Value       | Differential Value | Fold Change | Gene Name                                      |
|--------|-------------|--------------------|-------------|-----------------------------------------------|
| Q9J830 | -0.000320385| 0.000602667        | -0.00040551 | Microtubule-associated protein RP/EB family member 3 (Fragment) |
| Q9J830 | -1.54E-05   | 8.73E-06           | -8.79E-05   | Serine/arginine repetitive matrix protein 2 (Fragment) |
| Q9J830 | -0.000432742| 0.000150852        | 0.00069671  | Isoform 2 of Proliferation-associated protein 2G4 |
| Q9J830 | -0.000149281| 8.96E-05           | 0.00155803  | Isoform 5 of Bifunctional UDP-N-acetylglucosamine 2-epimerase/N-acetylmannotosamine kinase |
| Q9J830 | -0.00217233 | -0.000439185       | 0.00380128  | RuvB-like 2                                   |
| Q9J830 | -0.000316444| 0.000150852        | -0.00059409 | C-type lectin domain family 11 member A       |
| Q9J830 | -0.000734209| 0.00294293         | -0.00368465 | Eukaryotic translation initiation factor 3 subunit L |
| Q9J830 | -4.02E-05   | 2.28E-05           | -0.00292404 | Sodium-dependent multivitamin transporter |
| Q9J830 | 7.89E-05    | -0.000583316       | -0.00057087 | Nck-associated protein 1                      |
| Q9J830 | -8.33E-05   | 4.72E-05           | -0.00475253 | Mitogen-activated protein kinase kinase kinase 2 |
| Q9J830 | -6.08E-05   | 3.44E-05           | -0.00346558 | Calcium-regulated heat-stable protein 1       |
| Q9J830 | -2.75E-05   | 1.56E-05           | -0.000156803| Nucleolar protein 58                          |
| Q9J830 | -0.00236654 | -0.00217631        | -0.000380524| Deoxyribose-phosphate aldolase                 |
| Q9J830 | 0.000113492 | 0.00140097         | 0.00060274  | Isoform 2 of Protein MEMO1                   |
| Q9J830 | -1.02E-05   | -0.000149311       | -0.000170985| Ribosome maturation protein SBDS             |
| Q9J830 | -0.000133185| 0.0012426          | -0.00268825 | Serine-threonine kinase receptor-associated protein |
| Q9J830 | -0.000733442| 0.00264634         | -0.00100931 | tRNA-sping ligase RttB homolog                  |
| Q9J830 | -0.00101803 | 0.00111115         | -0.0026916  | 60S ribosomal protein L36                    |
| Q9J830 | -0.0249736  | 0.0201016          | -0.0250317  | Talin-1                                      |
| Q9J830 | 0.00106739  | -8.67E-05          | -0.00459802 | Lysyl oxidase homolog 2                    |
| Q9J830 | 0.0018694   | -0.00120739        | 0.0035372   | Hypoxia up-regulated protein 1                |
|    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|
| 3.57E-06 | -7.57E-05 | 9.78E-05 | 5.50E-05 | 0.0015958 | Q9Y5P6 | Mannose-1-phosphate guanylyltransferase beta | 1138 |
| 0.00200477 | -0.0132153 | 0.0137652 | 0.00166489 | -0.013393 | Q9YSX9 | Endothelial lipase | 1139 |
| -0.000375816 | 0.000187956 | -0.000554323 | -0.000622482 | 0.00035355 | Q9Y513 | FH1/FH2 domain-containing protein 1 | 1140 |
| -0.000498 | 0.00209177 | 0.0045431 | 0.00294577 | 0.00578498 | Q9Y617 | Phosphoserine aminotransferase | 1141 |
| -5.03E-05 | -4.86E-05 | -0.00011772 | 3.11E-06 | -8.80E-05 | H3BDT2 | Adhesion G-protein-coupled receptor G1 (Fragment) | 1142 |
| -0.000890876 | 0.000341788 | -0.00138228 | -0.00207381 | -0.00405555 | Q9Y678 | Coatamer subunit gamma-1 | 1143 |
| 0.000151874 | -0.000601268 | 0.000545232 | 0.00024376 | -0.000444227 | Q9Y696 | Chloride intracellular channel protein 4 | 1144 |
| 0.108937 | 0.0225149 | -0.0362577 | 0.234923 | -0.0278827 | Q9Y6C2 | EMLIN-1 | 1145 |
| -0.000362758 | 2.99E-05 | 0.00133444 | -0.000440853 | -0.00306703 | Q9Y6G9 | Cytoplasmic dynein 1 light intermediate chain 1 | 1146 |
| 0.00290663 | 0.0152315 | -0.00144001 | -0.00301263 | 0.014923 | ADA040MTC7 | Laminin subunit alpha-4 | 1148 |
| -7.78E-05 | 0.000307776 | 4.41E-05 | -0.00044065 | 0.000566764 | ADA1W2PNV4 | Uncharacterized protein | 1149 |
| -7.35E-05 | -0.000245261 | 0.00151057 | 0.00043555 | -0.00337177 | ADA1W2PPP70 | HLA class II histocompatibility antigen, DQ alpha 1 chain | 1150 |
| -0.00027005 | 0.00106768 | 0.000152985 | -0.00154044 | 0.00196612 | ADA2R8YDT5 | ATP-dependent RNA helicase DDX3X | 1152 |
| -0.000107359 | 0.000400607 | 0.00237879 | 0.000502226 | -0.0100031 | ADA3B3IR8 | Putative aldo-keto reductase family 1 member C8 | 1153 |
| -0.000106227 | 0.000396253 | 5.68E-05 | -0.00057171 | 0.000729694 | ADA3B3UJA2 | NHP2-like protein 1 | 1154 |
| -5.59E-05 | 0.000221089 | 3.17E-05 | -0.000318895 | 0.000407132 | E7EL8 | Glucose-6-phosphate 1-dehydrogenase (Fragment) | 1155 |
| -0.000743515 | 0.00293952 | 0.000421196 | -0.00424111 | 0.00541309 | F0V239 | RNA-binding protein 38 | 1156 |
| -0.00342333 | 0.0135343 | 0.00195929 | -0.0195272 | 0.0249322 | G3V1N2 | HGCL74530B, isoform CRA_a | 1157 |
| -0.000342589 | 0.00135444 | 0.000194074 | -0.00195418 | 0.00249419 | HDYrk8 | Fibronectin (Fragment) | 1158 |
| -0.00217453 | 0.00127354 | -0.000206548 | -0.00225893 | 0.00546049 | H3BN98 | Uncharacterized protein (Fragment) | 1159 |
| -1.62E-05 | -8.01E-05 | 0.00015069 | -9.17E-05 | -0.000103933 | K7EM38 | Actin, cytoplasmic 2 (Fragment) | 1160 |
| -0.00888205 | -0.00102438 | -0.00521952 | -0.00551292 | -0.0197253 | Q5TEC6 | Histone H3 | 1161 |
Proteins that we identified in EVs that have not been reported on Vesiclepedia database [as of 12th July 2022]

| Gene name  | Protein encoded                                           |
|------------|----------------------------------------------------------|
| ATP5F1B    | ATP synthase subunit beta, mitochondrial                 |
| ATP5F1A    | Isoform 2 of ATP synthase subunit alpha, mitochondrial   |
| RACK1      | Receptor of activated protein C kinase 1                 |
| SEPTIN2    | Septin-2                                                 |
| ELOC       | Elongin-C                                                |
| SEPTIN7    | Septin-7                                                 |
| P3H1       | Isoform 4 of Prolyl 3-hydroxylase 1                      |
| PYCR3      | Isoform 2 of Pyrroline-5-carboxylate reductase 3         |
| CEMIP      | Cell migration-inducing and hyaluronan-binding protein   |
| NECTIN2    | Nectin-2                                                 |
| FAM234A    | Protein FAM234A                                          |
| TENM2      | Isoform 2 of Teneurin-2                                  |
| SEPTIN11   | Septin 11, isoform CRA_b                                 |
| EVA1B      | Protein eva-1 homolog B                                  |
| TENM3      | Teneurin-3                                               |
| SEPTIN9    | Septin-9                                                 |
| CEMIP2     | Isoform 2 of Cell surface hyaluronidase                  |
| RTCB       | tRNA-splicing ligase RtcB homolog                         |
| HIST2H3PS2 | Histone H3                                               |