|                | Gene  | Log Fold Change | Chondrocyte (%) | Other cell types (%) |
|----------------|-------|-----------------|-----------------|----------------------|
| **Oligoarticular** |       |                 |                 |                      |
| *all p-values <0.00001 |       |                 |                 |                      |
| DCN            | 0.368 | 89.2            | 85.4            |                      |
| ENPP2          | 0.295 | 27.5            | 10.7            |                      |
| PLPP1          | 0.292 | 24.1            | 8.9             |                      |
| ZFP36L1        | 0.262 | 48.4            | 29.6            |                      |
| EFEMP1         | 0.254 | 61.3            | 50.9            |                      |
| **ETB**        |       |                 |                 |                      |
| *all p-values <0.00001 |       |                 |                 |                      |
| VCAM1          | 0.781 | 60.7            | 18.6            |                      |
| COL3A1         | 0.766 | 85.5            | 67              |                      |
| FBLN1          | 0.709 | 56.6            | 24.4            |                      |
| CLU            | 0.645 | 36.7            | 9.3             |                      |
| MEG3           | 0.610 | 86.7            | 63.6            |                      |
| PCOLCE         | 0.602 | 83.7            | 56.5            |                      |
| NEAT1          | 0.594 | 99.2            | 96.1            |                      |
| STEAP4         | 0.592 | 38.4            | 12.9            |                      |
| FRZB           | 0.578 | 19.2            | 4.5             |                      |
| PRG4           | 0.558 | 19.8            | 3.5             |                      |
| CYP1B1         | 0.557 | 87.5            | 73.6            |                      |
| MALAT1         | 0.543 | 95.6            | 89.5            |                      |
| SCR1G1         | 0.539 | 43.7            | 13.8            |                      |
| PTGDS          | 0.526 | 34.6            | 13.2            |                      |
| PGF            | 0.504 | 33.1            | 16.2            |                      |
| COL12A1        | 0.501 | 97              | 86.4            |                      |
| C1R            | 0.497 | 57.5            | 31.5            |                      |
| SAT1           | 0.492 | 53.5            | 33.2            |                      |
| COL1A2         | 0.480 | 99.1            | 96.1            |                      |
| ABI3BP         | 0.477 | 83.7            | 60.9            |                      |
| MRC2           | 0.471 | 80.2            | 50.8            |                      |
| PIEZO2         | 0.464 | 45.5            | 16.9            |                      |
| FSTL1          | 0.463 | 97.4            | 90.2            |                      |
| PRELP          | 0.448 | 38.6            | 10.5            |                      |
| Gene     | Value 1 | Value 2 | Value 3 |
|----------|---------|---------|---------|
| COL6A3   | 0.437   | 79.7    | 55.2    |
| COL6A1   | 0.436   | 95.5    | 79      |
| TIMP3    | 0.435   | 93.2    | 85.7    |
| FOS      | 0.433   | 41.3    | 21.8    |
| PENK     | 0.432   | 51.8    | 28.5    |
| POSTN    | 0.432   | 39.2    | 29.2    |
| NBL1     | 0.423   | 90.6    | 78.5    |
| COL6A2   | 0.421   | 96.5    | 85.6    |
| C1GALT1  | 0.420   | 74.6    | 45.2    |
| WNT5A    | 0.417   | 39.6    | 15.5    |
| CD9      | 0.407   | 72.7    | 47.1    |
| XIST     | 0.401   | 73.5    | 46.6    |
| ISLR     | 0.398   | 86.8    | 67.1    |
| IFITM2   | 0.389   | 68      | 45.8    |
| LRP1     | 0.388   | 88.6    | 70.1    |
| PLXDC2   | 0.378   | 36.2    | 11.8    |
| KYNU     | 0.367   | 28.1    | 6.4     |
| TNC      | 0.366   | 40.3    | 16.4    |
| SDC4     | 0.365   | 56.9    | 33.7    |
| PLEC     | 0.362   | 85.2    | 66.8    |
| SEMA3C   | 0.360   | 83.1    | 73.9    |
| LTBP3    | 0.357   | 65.3    | 41.1    |
| BZW1     | 0.354   | 82      | 62      |
| C15      | 0.352   | 47.1    | 22.7    |
| CD164    | 0.347   | 64.9    | 42.8    |
| COL1A1   | 0.345   | 97.7    | 92.4    |
| PTGES    | 0.339   | 40.7    | 18      |
| OGN      | 0.338   | 25.2    | 3.5     |
| IFITM3   | 0.337   | 90.3    | 79.8    |
| JUNB     | 0.333   | 46.2    | 27.4    |
| GALNT1   | 0.332   | 73      | 51.9    |
| NPW      | 0.328   | 23.6    | 7.5     |
| CREB5    | 0.327   | 38      | 13.3    |
| B4GALT1  | 0.327   | 80.4    | 57.8    |
| Gene       | Score | Fold Change | p-value |
|------------|-------|-------------|---------|
| APLP2      | 0.327 | 88          | 68.9    |
| PSAP       | 0.323 | 79.1        | 55.3    |
| TNFAIP6    | 0.321 | 30.9        | 14.2    |
| FAM118A    | 0.320 | 30.7        | 8.7     |
| BGN        | 0.319 | 69.8        | 50.2    |
| RBPJ       | 0.318 | 78.7        | 52.6    |
| ADIRF      | 0.316 | 96.2        | 86.1    |
| COL5A2     | 0.312 | 56.8        | 38.2    |
| WSB1       | 0.309 | 44.6        | 22.1    |
| AHNAK      | 0.308 | 95.1        | 83.4    |
| NNMT       | 0.307 | 87.1        | 74.1    |
| PNISR      | 0.307 | 47.3        | 23.2    |
| EEF2       | 0.307 | 98.5        | 95.2    |
| MXRA5      | 0.306 | 29.9        | 9.6     |
| DPYSL3     | 0.306 | 41.7        | 18.1    |
| SLC25A37   | 0.303 | 43.4        | 20.4    |
| GOLM1      | 0.303 | 37.1        | 15.6    |
| RSRP1      | 0.302 | 38.3        | 16.3    |
| N4BP2L2    | 0.300 | 50.9        | 26.6    |
| COMP       | 0.300 | 28.4        | 18      |
| PLD3       | 0.296 | 61.5        | 41.3    |
| SSC5D      | 0.294 | 36.1        | 11.6    |
| BSG        | 0.292 | 93.3        | 81.7    |
| SMOC2      | 0.290 | 22          | 4.5     |
| ECM1       | 0.288 | 48.2        | 24.6    |
| ARID5B     | 0.286 | 68.6        | 48.2    |
| IGFBP6     | 0.285 | 97.1        | 88.8    |
| ANKH       | 0.282 | 37.7        | 18.5    |
| SERPINH1   | 0.281 | 67.3        | 45.8    |
| DLX3       | 0.281 | 36          | 13.9    |
| KCNQ1OT1   | 0.280 | 32.7        | 15.8    |
| TXNIP      | 0.277 | 33.4        | 16.9    |
| ACKR3      | 0.273 | 29          | 10.2    |
| EBF1       | 0.272 | 32.3        | 11.3    |
| Gene        | FDR  | qValue | Log2FoldChange |
|-------------|------|--------|----------------|
| CLSTN1      | 0.270| 38.7   | 16.3           |
| CLEC3B      | 0.270| 34.5   | 14             |
| IERSL       | 0.270| 38     | 18.7           |
| SLC2A12     | 0.268| 24.8   | 4.6            |
| RUNX1       | 0.266| 35.4   | 15.8           |
| CD248       | 0.265| 68.6   | 48.9           |
| MAP1A       | 0.263| 61.7   | 42.9           |
| CCDC80      | 0.263| 85.9   | 77.6           |
| DDX17       | 0.263| 63.2   | 43.5           |
| IGFBP5      | 0.261| 82.3   | 74             |
| LMO4        | 0.260| 53.8   | 36.2           |
| PYCARD      | 0.260| 27.6   | 10.1           |
| ERRFI1      | 0.259| 38.4   | 21.1           |
| TNX8        | 0.259| 35.7   | 19             |
| PRUNE2      | 0.258| 35     | 13.3           |
| HSPG2       | 0.258| 74.9   | 51.3           |
| RPS2        | 0.257| 99.7   | 98.8           |
| ZFP36L2     | 0.257| 51.9   | 33.3           |
| MMP2        | 0.257| 91     | 83.4           |
| EMILIN1     | 0.256| 39.6   | 19.5           |
| PDE1A       | 0.256| 29.6   | 8.8            |
| IGFBP4      | 0.254| 98.8   | 96.4           |
| TRAM1       | 0.254| 56.1   | 44.5           |
| FGFR1       | 0.253| 57.9   | 34.5           |
| CHI3L1      | 0.253| 27.2   | 18.7           |
| FKBP10      | 0.252| 78.5   | 56.4           |
| DDX5        | 0.251| 86.2   | 65.6           |
| RPLP0       | 0.250| 99.2   | 97.5           |
| FGF2        | -0.253| 27    | 34             |
| ANKRD1      | -0.254| 1.3   | 11.3           |
| MTRNR2L12   | -0.255| 70.5  | 71.9           |
| MFAP5       | -0.256| 29.8  | 37.2           |
| ATP6V0E1    | -0.258| 72.4  | 70.2           |
| TUBA1B      | -0.261| 70.1  | 71             |
|     |          |     |     |
|-----|----------|-----|-----|
| SRG\n   | -0.262   | 3.7 | 14.5|
| HINT1 | -0.265   | 78.3| 84.8|
| PSG5  | -0.267   | 1.1 | 14.8|
| KRTAP1-5 | -0.272 | 2.6 | 12.8|
| MT-ND6| -0.273   | 57.2| 65.5|
| HAPLN1| -0.276   | 9   | 18.1|
| CDH2  | -0.281   | 1.4 | 16.9|
| OAZ1  | -0.282   | 97.1| 96.4|
| TPM1  | -0.287   | 85.6| 90.3|
| PHACTR2| -0.291   | 22.8| 31.5|
| MAP1B | -0.303   | 65.4| 74  |
| COL8A1| -0.314   | 15.7| 26.5|
| STMN1 | -0.314   | 13  | 17.9|
| CYR61 | -0.322   | 25.6| 34.4|
| C12ORF75| -0.323   | 52.3| 58.5|
| ALCAM | -0.330   | 11.5| 24.9|
| MT-ND5| -0.331   | 92.5| 89.1|
| TXNRD1| -0.338   | 17  | 26.8|
| H2AFZ | -0.339   | 18.2| 25.1|
| CITED2| -0.341   | 19.7| 30.7|
| UBE2S | -0.344   | 12.2| 19.8|
| MT-ND2| -0.352   | 99.9| 99.4|
| LDHA  | -0.356   | 85.9| 88.5|
| TGM2  | -0.357   | 5   | 17.8|
| MT-ND4L| -0.358   | 72.5| 74.2|
| MYL12A| -0.367   | 83.7| 88.2|
| SPINK6| -0.370   | 4   | 11.6|
| SCG5  | -0.383   | 4.5 | 17  |
| KRT7  | -0.388   | 11.1| 27.2|
| OSBPPL8| -0.407   | 13.3| 24.8|
| CALD1 | -0.413   | 87.4| 89.9|
| TNFRSF11B| -0.422   | 1.9 | 12.8|
| CD59  | -0.433   | 69.6| 72  |
| SERPINE1| -0.441   | 29  | 40.1|
| Gene     | Log Fold Change | Chondrocyte (%) | Other cell types (%) |
|----------|-----------------|-----------------|----------------------|
| PTX3     | -0.444          | 24.9            | 34.1                 |
| HSPB7    | -0.447          | 31.5            | 46.1                 |
| F3       | -0.454          | 6.8             | 18.5                 |
| CRYAB    | -0.471          | 77.7            | 85.3                 |
| TMSB4X   | -0.500          | 99.5            | 99.6                 |
| TAGLN    | -0.504          | 61.3            | 68                   |
| SERPINE2 | -0.506          | 77              | 84.4                 |
| KRT19    | -0.521          | 1.2             | 15.7                 |
| IFI27    | -0.546          | 38.5            | 56.7                 |
| GAS6     | -0.565          | 62.8            | 70.6                 |
| THBS1    | -0.589          | 36.9            | 44.1                 |
| FTH1     | -0.592          | 99.9            | 99.7                 |
| FTL      | -0.619          | 99.6            | 99.6                 |
| CCND1    | -0.627          | 60.6            | 71.4                 |
| STMN2    | -0.685          | 2.2             | 22.9                 |
| STC2     | -0.687          | 14.8            | 31.5                 |
| MTRNR2L8 | -0.733          | 35              | 43                   |
| GREM1    | -0.747          | 28.7            | 46.1                 |
| SFRP4    | -0.869          | 8.4             | 26.5                 |
| DKK1     | -1.230          | 9.3             | 36.3                 |

*all p-values <0.00001

| Polyarticular Gene | Log Fold Change | Chondrocyte (%) | Other cell types (%) |
|--------------------|-----------------|-----------------|----------------------|
| CHI3L1             | 1.528           | 93.9            | 49.2                 |
| CLU                | 1.080           | 88.1            | 33.3                 |
| COMP               | 1.073           | 72.8            | 23.9                 |
| MT-ND2             | 1.039           | 99.8            | 98.4                 |
| MT-ND5             | 0.995           | 98              | 83.3                 |
| MT-ND1             | 0.936           | 100             | 99.7                 |
| MTRNR2L12          | 0.788           | 80.6            | 44.1                 |
| CCDC80             | 0.753           | 97.7            | 79.5                 |
| CXCL6              | 0.733           | 55.4            | 17.4                 |
| CPA4               | 0.703           | 47.4            | 15                   |
| EDIL3              | 0.689           | 50              | 10                   |
| MT-ND4L            | 0.666           | 84              | 51.3                 |
| Gene   | Value | Percent1 | Percent2 |
|--------|-------|----------|----------|
| MEG3   | 0.654 | 97.1     | 76.4     |
| FOS    | 0.641 | 90.5     | 51.5     |
| TNC    | 0.623 | 78.4     | 36.5     |
| EGR1   | 0.613 | 78.5     | 30.6     |
| RPS4Y1 | 0.607 | 65.4     | 16.9     |
| MT-ND3 | 0.601 | 100      | 99.7     |
| REV3L  | 0.584 | 59.4     | 24.5     |
| TIMP1  | 0.582 | 99.9     | 99.4     |
| RPL13A | 0.576 | 99.8     | 97.9     |
| NDUFA4L2 | 0.552 | 96.4     | 73.3     |
| HAPLN1 | 0.546 | 39.9     | 15.6     |
| RPS20  | 0.532 | 93.7     | 67.8     |
| C1R    | 0.527 | 92.5     | 57.1     |
| PRELP  | 0.522 | 55.1     | 24.2     |
| CYR61  | 0.520 | 89.7     | 54.8     |
| FOSB   | 0.508 | 50.4     | 20.9     |
| VEGFA  | 0.499 | 56.6     | 22.8     |
| COL3A1 | 0.498 | 96.3     | 73.6     |
| COL6A3 | 0.497 | 94.9     | 69.8     |
| EPAS1  | 0.483 | 59.1     | 22.2     |
| SOD2   | 0.481 | 64       | 33.8     |
| NEAT1  | 0.477 | 99.9     | 98.8     |
| PTGS2  | 0.474 | 29.1     | 9        |
| CCNL1  | 0.474 | 70.2     | 34.9     |
| RBP4   | 0.464 | 28       | 7.7      |
| COL6A1 | 0.460 | 99.1     | 93.9     |
| MT-ND4 | 0.455 | 100      | 99.6     |
| CYTL1  | 0.450 | 29.4     | 11.3     |
| NNMT   | 0.446 | 98.6     | 83.7     |
| TGFB1  | 0.445 | 98.3     | 90.8     |
| SLC38A2| 0.444 | 88       | 56.3     |
| MT-ND6 | 0.434 | 66.3     | 42.1     |
| SSB1   | 0.434 | 83.3     | 49.5     |
| CFH    | 0.433 | 32.6     | 16.3     |
| Gene   | Value | Increase | Fold Change |
|--------|-------|----------|-------------|
| DUSP1  | 0.432 | 81.6     | 48.9        |
| HES1   | 0.427 | 35.3     | 13.5        |
| MT-ATP6| 0.422 | 99.9     | 99.5        |
| PDGFRA | 0.415 | 79.5     | 44.1        |
| ATF4   | 0.411 | 88.2     | 54.5        |
| ID2    | 0.401 | 85.1     | 57.4        |
| COL5A2 | 0.399 | 88       | 59.4        |
| C3     | 0.396 | 26.1     | 6.5         |
| PLOD2  | 0.395 | 71.8     | 39.7        |
| P4HA1  | 0.395 | 57.6     | 29.5        |
| MEST   | 0.394 | 72.5     | 37.5        |
| IER3   | 0.393 | 74       | 38          |
| RPL31  | 0.388 | 93       | 75.7        |
| COL6A2 | 0.386 | 99.7     | 97.6        |
| MT-CO3 | 0.376 | 99.6     | 99.4        |
| MT-CYB | 0.374 | 99.9     | 99.6        |
| JUN    | 0.374 | 61.7     | 35          |
| BGN    | 0.368 | 96.7     | 79.5        |
| RPL27A | 0.365 | 99.9     | 99.5        |
| NR4A2  | 0.365 | 28.9     | 8.1         |
| CPE    | 0.361 | 20.4     | 4           |
| COL12A1| 0.361 | 99.2     | 88.5        |
| RPS11  | 0.360 | 99.8     | 99.5        |
| QSOX1  | 0.354 | 91       | 61.8        |
| CEBPD  | 0.353 | 71.2     | 39.9        |
| MT-ATP8| 0.351 | 38.9     | 20.4        |
| NFKBIZ | 0.344 | 33.3     | 13.1        |
| NR4A1  | 0.343 | 33.1     | 16.1        |
| PCOLCE | 0.343 | 96.5     | 83.3        |
| RPL37A | 0.341 | 100      | 99.9        |
| RPS2   | 0.339 | 100      | 99.9        |
| RPL23  | 0.334 | 99.4     | 97.8        |
| SPARC  | 0.329 | 98.5     | 94.5        |
| NAMPT  | 0.320 | 33.8     | 17.5        |
| Gene       | Value 1 | Value 2 | Value 3 |
|------------|---------|---------|---------|
| RABGAP1    | 0.317   | 31.8    | 16.7    |
| LAMB2      | 0.317   | 85.7    | 57.7    |
| CPXM2      | 0.315   | 28.5    | 5.8     |
| IFITM3     | 0.310   | 96.2    | 83      |
| STC1       | 0.310   | 18.1    | 3.6     |
| RCAN1      | 0.306   | 42.7    | 25.5    |
| MCL1       | 0.303   | 43.3    | 23.8    |
| N4BP2L2    | 0.301   | 81.2    | 53      |
| DDR2       | 0.298   | 80.6    | 52.1    |
| VMP1       | 0.297   | 68.4    | 41.7    |
| COL14A1    | 0.297   | 26.6    | 8.9     |
| HLA-A      | 0.296   | 98.1    | 89      |
| DTWD1      | 0.295   | 51.5    | 32.4    |
| FMOD       | 0.291   | 22.3    | 8.3     |
| CHI3L2     | 0.286   | 14.2    | 2.6     |
| CA12       | 0.277   | 55.6    | 35.5    |
| EMILIN1    | 0.273   | 63.8    | 41.4    |
| DST        | 0.266   | 90.4    | 67.9    |
| PLD3       | 0.255   | 82.5    | 58.3    |
| LUM        | 0.253   | 97.9    | 85.3    |
| NDUFB6     | -0.250  | 20      | 47.6    |
| GTF3A      | -0.251  | 18.7    | 46.4    |
| ADRM1      | -0.251  | 17.9    | 46.8    |
| HAS1       | -0.252  | 2.5     | 17.2    |
| DAD1       | -0.252  | 83.7    | 88.2    |
| MANF       | -0.253  | 21.5    | 44.1    |
| COX7A2     | -0.253  | 81.7    | 88      |
| POLR2E     | -0.254  | 21.6    | 51.7    |
| POMP       | -0.254  | 81.4    | 88.3    |
| RPA3       | -0.255  | 11.4    | 32.9    |
| TOMM22     | -0.255  | 15.6    | 44.7    |
| GALNT1     | -0.255  | 49      | 59.9    |
| FGF2       | -0.256  | 43      | 54      |
| NTAN1      | -0.257  | 14.7    | 43.7    |
| Gene       | Log2Ratio | Percentage | Absolute Value |
|------------|-----------|------------|----------------|
| CD81       | -0.257    | 98.4       | 98.4           |
| SNRPG      | -0.257    | 45.5       | 65.1           |
| HTRA1      | -0.258    | 89.2       | 86.7           |
| BR13       | -0.258    | 90.5       | 93.1           |
| UQCR11     | -0.258    | 76.6       | 86.6           |
| STOML2     | -0.258    | 20.3       | 49.4           |
| ATP6V0E1   | -0.258    | 87.5       | 90.8           |
| DDAH1      | -0.259    | 11.1       | 35.3           |
| ILF2       | -0.259    | 18         | 44             |
| HSPB6      | -0.260    | 28.8       | 47.8           |
| EEF1A1     | -0.261    | 100        | 100            |
| SRP9       | -0.261    | 34.7       | 62.1           |
| TIMM10     | -0.261    | 14.7       | 43.9           |
| EMP1       | -0.261    | 42.1       | 55.4           |
| DBN1       | -0.261    | 14.6       | 40.6           |
| CYCS       | -0.262    | 25         | 49             |
| ARPC1B     | -0.262    | 46.9       | 69.3           |
| FHL2       | -0.263    | 78.5       | 80.7           |
| SMS        | -0.263    | 17.9       | 40.3           |
| LSM5       | -0.263    | 18.5       | 46             |
| CHCHD2     | -0.263    | 88.1       | 93.6           |
| CENPW      | -0.264    | 4.9        | 18.9           |
| ASPM       | -0.264    | 3.7        | 13.2           |
| VAMP5      | -0.264    | 40.8       | 63.6           |
| PSMA7      | -0.264    | 79.2       | 85.1           |
| SERINC2    | -0.264    | 6.6        | 30.9           |
| TPM3       | -0.265    | 42.5       | 60.8           |
| ENG        | -0.265    | 57.8       | 66             |
| LDHA       | -0.265    | 96.2       | 95.8           |
| PRDX1      | -0.266    | 92.3       | 95.3           |
| NUTF2      | -0.266    | 14.9       | 44.5           |
| ATP5MC3    | -0.267    | 78.2       | 84.9           |
| SUMO3      | -0.267    | 19.1       | 50.2           |
| ATP6V0B    | -0.268    | 28.1       | 55             |
| Gene       | Log2FC | Adj P | FDR  |
|------------|--------|-------|------|
| ITGB5      | -0.268 | 29.3  | 51.5 |
| ACTG1      | -0.268 | 100   | 99.9 |
| SELENOH    | -0.268 | 19.7  | 52   |
| CCND1      | -0.269 | 44.9  | 59.7 |
| METRN1     | -0.269 | 66.6  | 74.9 |
| VSIR       | -0.269 | 16.1  | 36.5 |
| SKP1       | -0.270 | 82.1  | 86.8 |
| ANXA4      | -0.270 | 19.6  | 48.9 |
| PSMD2      | -0.270 | 20.3  | 47.5 |
| TMEM14B    | -0.270 | 23.8  | 55.5 |
| FBLN2      | -0.270 | 22.5  | 44.1 |
| VIM        | -0.271 | 100   | 100  |
| LSM3       | -0.271 | 31    | 59.1 |
| ITGB8      | -0.271 | 6.5   | 24.5 |
| NEDD8      | -0.271 | 78.2  | 88   |
| ATF5       | -0.272 | 13.1  | 27.8 |
| TMSB10     | -0.272 | 100   | 100  |
| TP53I11    | -0.272 | 10.3  | 30.5 |
| NDUFS6     | -0.272 | 51.4  | 73.7 |
| STRAP      | -0.273 | 21.8  | 52.9 |
| DCTN3      | -0.273 | 35.9  | 63.9 |
| SNRPD1     | -0.273 | 20.1  | 45.9 |
| KDELR3     | -0.273 | 22.8  | 50.4 |
| PSMA5      | -0.273 | 21    | 52.1 |
| CARHSP1    | -0.274 | 26.3  | 53.7 |
| CLTA       | -0.274 | 74.9  | 85.4 |
| TMEM50A    | -0.275 | 74.1  | 81   |
| LGALS3BP   | -0.275 | 12.9  | 37.7 |
| UBE2M      | -0.275 | 19.7  | 50.7 |
| FABP5      | -0.275 | 9.9   | 27.1 |
| LAPTM4A    | -0.276 | 85.4  | 88.1 |
| DTYMK      | -0.277 | 6.5   | 26.6 |
| WDR1       | -0.277 | 32.1  | 57   |
| PSMD8      | -0.277 | 65.4  | 80   |
| Protein  | Log2 Fold Change | Percent Change | P-value  |
|----------|------------------|----------------|----------|
| PPDPF    | -0.278           | 95.8           | 98.4     |
| NME1     | -0.279           | 28.5           | 51.7     |
| PIN1     | -0.279           | 15.7           | 46.1     |
| MPC2     | -0.280           | 22             | 51.2     |
| PLP2     | -0.280           | 57.4           | 70.4     |
| LHFPL2   | -0.281           | 15.5           | 40.7     |
| BIRC5    | -0.281           | 1.8            | 13.9     |
| CKS1B    | -0.281           | 9              | 25.7     |
| PSMD7    | -0.281           | 21             | 49.9     |
| SLC25A5  | -0.281           | 35.5           | 59.7     |
| BRK1     | -0.282           | 67             | 81.3     |
| TMEM160  | -0.282           | 20.5           | 50.9     |
| GREM1    | -0.282           | 78.8           | 75.5     |
| RECK     | -0.283           | 24.6           | 49.1     |
| GTF3C6   | -0.283           | 23.6           | 55.5     |
| GSTO1    | -0.283           | 66             | 79.4     |
| MSN      | -0.283           | 41.2           | 60.5     |
| PRIM2    | -0.284           | 9              | 33.7     |
| LAMTOR1  | -0.284           | 31.6           | 62.2     |
| ID1      | -0.286           | 83.6           | 78.8     |
| PCOLCE2  | -0.286           | 22.3           | 47.8     |
| GSN      | -0.287           | 66.5           | 71.4     |
| MARCK5   | -0.287           | 85.3           | 86.5     |
| GABARAPL2| -0.287           | 32.8           | 61.3     |
| ECM1     | -0.288           | 18.9           | 46.6     |
| PEBP1    | -0.288           | 75.4           | 86.9     |
| PHLDA2   | -0.289           | 7.3            | 30.4     |
| ARP2C1A  | -0.289           | 35.2           | 65.3     |
| FBXO32   | -0.289           | 21.3           | 37.8     |
| CSRIP1   | -0.289           | 31.2           | 57       |
| SNF8     | -0.290           | 20.4           | 51.9     |
| CAP1     | -0.295           | 36.8           | 63.1     |
| S100A11  | -0.296           | 99.4           | 99.8     |
| GTF2A2   | -0.296           | 21.7           | 54.8     |
| Gene   | Log2 Fold Change | Relative Expression |
|--------|-----------------|---------------------|
| RAB5C  | -0.296          | 20.6                |
| KPNA2  | -0.297          | 5.4                 |
| TSPO   | -0.300          | 95.8                |
| GCNT1  | -0.301          | 9.8                 |
| MKI67  | -0.302          | 0.9                 |
| ITGBL1 | -0.303          | 20.8                |
| PRELID1| -0.304          | 51.8                |
| PCLAF  | -0.304          | 7                   |
| UAP1   | -0.305          | 23.5                |
| UGDH   | -0.305          | 27.8                |
| COX8A  | -0.305          | 77.8                |
| TXNL4A | -0.307          | 21.5                |
| HINT1  | -0.308          | 88.7                |
| FABP3  | -0.308          | 4.9                 |
| VEGFB  | -0.308          | 36.4                |
| ARPC2  | -0.310          | 79.3                |
| C7ORF50| -0.311          | 23.9                |
| TYMS   | -0.312          | 4                   |
| DDAH2  | -0.312          | 32.1                |
| EIF1AX | -0.313          | 56.2                |
| MYL6   | -0.313          | 99.1                |
| CLTB   | -0.315          | 26.3                |
| TNFRSF12A| -0.316       | 60                  |
| PPIA   | -0.317          | 96.7                |
| NDUFAF8| -0.317          | 32.2                |
| ITGB1BP1| -0.317          | 19                  |
| NPR3   | -0.318          | 13.7                |
| CALM1  | -0.318          | 73.3                |
| TAGLN2 | -0.318          | 70.8                |
| UQCRFS1| -0.319          | 19.3                |
| EFHD2  | -0.321          | 17.9                |
| ADM    | -0.321          | 51.4                |
| FLNA   | -0.321          | 90.8                |
| TOP2A  | -0.321          | 3.6                 |

The table above shows the log2 fold change and relative expression levels of various genes.
| Gene    | LogFC | foldChange | pValue |
|---------|-------|------------|--------|
| ODC1    | -0.321| 22.2       | 50.4   |
| ATOX1   | -0.322| 64         | 83.4   |
| NDUFA1  | -0.323| 26.3       | 61.2   |
| AKR7A2  | -0.323| 19.4       | 53.4   |
| DBI     | -0.324| 58.1       | 76.3   |
| DYNLL1  | -0.324| 90.8       | 96     |
| SH3BGRL3| -0.324| 98.8       | 99.6   |
| HSPB7   | -0.325| 38.7       | 50.2   |
| HMGN2   | -0.328| 68.8       | 72.9   |
| FGF5    | -0.329| 7.8        | 24.4   |
| HEG1    | -0.330| 18.9       | 43.8   |
| CAPG    | -0.330| 52.8       | 68.3   |
| CEMIP   | -0.330| 70.9       | 67.3   |
| FRMD6   | -0.331| 22.8       | 44.4   |
| CD59    | -0.332| 83.6       | 89.6   |
| DRAP1   | -0.332| 82         | 88.9   |
| PDLIM7  | -0.333| 34.1       | 62.5   |
| MAP1B   | -0.335| 76.8       | 80.6   |
| PDLIM2  | -0.335| 77.1       | 85.4   |
| ANXA5   | -0.336| 97.8       | 98.5   |
| HSPB1   | -0.337| 78.8       | 88.1   |
| TK1     | -0.338| 3.1        | 22.1   |
| LMO7    | -0.341| 67.8       | 73.3   |
| VGLL3   | -0.342| 11         | 42.4   |
| DLX3    | -0.343| 8.5        | 36.8   |
| MYL12B  | -0.343| 91.4       | 95.9   |
| RHOC    | -0.345| 70         | 82.8   |
| LSM4    | -0.345| 14.9       | 47     |
| PTGES   | -0.345| 12.7       | 37.1   |
| NUDT1   | -0.345| 12.2       | 45.8   |
| CDKN3   | -0.347| 4.3        | 17.2   |
| SMURF2  | -0.347| 15.1       | 40.5   |
| YWHAQ   | -0.348| 55         | 76.4   |
| MYL12A  | -0.349| 90         | 94.4   |
| Gene     | Correlation | Fold Change 1 | Fold Change 2 |
|----------|-------------|---------------|---------------|
| YBX1     | -0.350      | 92.1          | 97            |
| POLR2L   | -0.353      | 93.4          | 97.3          |
| RHOA     | -0.356      | 77.9          | 88.4          |
| PSMB6    | -0.356      | 38.8          | 69.6          |
| RANBP1   | -0.358      | 21.6          | 49.9          |
| CAV2     | -0.358      | 16.3          | 51.8          |
| HMGA1    | -0.359      | 16.8          | 47.2          |
| H2AFV    | -0.360      | 23.6          | 54.7          |
| BAG2     | -0.360      | 18.8          | 50            |
| MT2A     | -0.361      | 93.8          | 88            |
| FTH1     | -0.363      | 100           | 100           |
| COPRS    | -0.364      | 36.6          | 67.4          |
| LTBP2    | -0.365      | 32.2          | 54.6          |
| YWHAH    | -0.371      | 19.2          | 52.4          |
| SELENOW  | -0.372      | 55.8          | 76.3          |
| RAN      | -0.372      | 75.7          | 84.1          |
| PODXL    | -0.372      | 1.8           | 19.2          |
| AP2S1    | -0.373      | 84.1          | 92.5          |
| UCHL1    | -0.374      | 16.6          | 39            |
| TUBB6    | -0.378      | 25.6          | 52.2          |
| CRLF1    | -0.379      | 31.4          | 52            |
| TUBA1A   | -0.379      | 53.7          | 68.1          |
| TUBA1C   | -0.381      | 49.6          | 60.5          |
| MTCH1    | -0.382      | 56.3          | 74.7          |
| ANXA2    | -0.383      | 99.1          | 99.5          |
| NBL1     | -0.383      | 54.9          | 69.6          |
| TNXB     | -0.386      | 9.1           | 28.6          |
| CALM2    | -0.391      | 82.8          | 90.1          |
| ACTC1    | -0.392      | 2.4           | 13.2          |
| LY6K     | -0.395      | 6.5           | 22.4          |
| CCNB1    | -0.396      | 1.9           | 12            |
| PRRX2    | -0.400      | 47.5          | 68.8          |
| HIST1H4C | -0.401      | 9.1           | 24.1          |
| PTGDS    | -0.401      | 7.5           | 22.9          |
| Gene   | Value 1 | Value 2 | Value 3 |
|--------|---------|---------|---------|
| ACTA2  | -0.402  | 12.4    | 31.7    |
| CKS2   | -0.404  | 5.9     | 19.5    |
| ANPEP  | -0.408  | 21.1    | 47.7    |
| RAB32  | -0.409  | 26.4    | 60      |
| FN1    | -0.413  | 99.9    | 99.7    |
| HSPA8  | -0.416  | 76.5    | 87.5    |
| ID3    | -0.417  | 87.7    | 86.7    |
| OAZ1   | -0.425  | 95.3    | 98.4    |
| CALD1  | -0.428  | 93.7    | 96.8    |
| COPZ2  | -0.433  | 66.5    | 81.3    |
| F3     | -0.433  | 11.9    | 28.8    |
| CENPF  | -0.438  | 1.8     | 13      |
| ACTB   | -0.440  | 99.5    | 99.5    |
| ACAN   | -0.448  | 80.1    | 72.7    |
| TMSB4X | -0.451  | 99.3    | 100     |
| IGFBP6 | -0.453  | 93      | 91.6    |
| PTTG1  | -0.454  | 5.6     | 18.3    |
| S100A16| -0.455  | 52.5    | 74.5    |
| CLIC1  | -0.456  | 87.6    | 93.9    |
| PPP1R14B| -0.461 | 82.8    | 91.4    |
| TUBB   | -0.463  | 89.8    | 92.8    |
| THBS2  | -0.463  | 14.5    | 42.8    |
| PENK   | -0.466  | 22      | 28.1    |
| JPT1   | -0.468  | 17.7    | 44.5    |
| TUBB4B | -0.469  | 51.8    | 60.1    |
| GUK1   | -0.469  | 83.4    | 94.6    |
| PALLD  | -0.474  | 24.1    | 62.3    |
| CFL1   | -0.483  | 92.8    | 97      |
| ELN    | -0.497  | 69.4    | 59      |
| KRT7   | -0.505  | 13.8    | 29.5    |
| FST    | -0.514  | 43.3    | 54.5    |
| S100A13| -0.519  | 82.2    | 91      |
| PFN1   | -0.521  | 90.7    | 96.8    |
| UBE2S  | -0.531  | 17      | 36.6    |
| Gene       | log2FDR | FDR   | Log2FC |
|------------|---------|-------|--------|
| MYL9       | -0.531  | 81.7  | 91.5   |
| FGF7       | -0.548  | 40.1  | 57.6   |
| DKK1       | -0.556  | 6.7   | 23.6   |
| CD248      | -0.556  | 33.2  | 59.9   |
| TAGLN      | -0.568  | 79.5  | 79.4   |
| CXCL12     | -0.581  | 28.7  | 54.4   |
| CRYAB      | -0.586  | 81.7  | 86.1   |
| TPM1       | -0.591  | 92.8  | 94.9   |
| GPX4       | -0.592  | 85    | 95.4   |
| PGF        | -0.598  | 13    | 40.9   |
| LOX        | -0.600  | 87.5  | 88.6   |
| PSG5       | -0.606  | 2.2   | 32.1   |
| TIMP3      | -0.611  | 73.4  | 80.9   |
| C12orf75   | -0.615  | 46.6  | 75.8   |
| VEGFC      | -0.617  | 33.7  | 66.9   |
| XIST       | -0.629  | 11.8  | 61.5   |
| SCUBE3     | -0.633  | 13.2  | 37.6   |
| H2AFZ      | -0.634  | 37.7  | 53.5   |
| Clic3      | -0.682  | 20.7  | 55.5   |
| CKB        | -0.684  | 43.1  | 68.9   |
| STMN1      | -0.708  | 11.1  | 38.4   |
| CAV1       | -0.727  | 74.1  | 88.9   |
| TUBA1B     | -0.789  | 75.6  | 77.8   |
| AKAP12     | -0.797  | 42.1  | 54.8   |
| IFI27      | -0.813  | 26.2  | 65.4   |
| PTX3       | -0.855  | 72.8  | 69.4   |
| MFAP5      | -0.968  | 24.8  | 68.4   |
| S100A4     | -1.010  | 61.3  | 83.3   |