| Gene ID | hRPE | | CNV RPE M69 | | CNV RPE M88 | | CNV RPE combined | | fold change (log2) | fold change | FDR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | mean | SD | mean | SD | mean | SD | mean | SD | | | |
| A1BG-AS1 | 445.9 | 6.2 | 805.1 | 44.7 | 1096.2 | 38.6 | 950.6 | 160.3 | 1.08 | 2.12 | <0,00001 |
| AAMDC | 1019.2 | 54.3 | 1738.5 | 68.2 | 3971.8 | 112.1 | 2855.2 | 1196.9 | 1.41 | 2.66 | 0.00001 |
| AARD | 54.0 | 5.7 | 71.5 | 5.7 | 178.4 | 15.0 | 125.0 | 58.1 | 1.14 | 2.20 | 0.00226 |
| AASS | 798.0 | 41.0 | 283.4 | 16.7 | 365.9 | 14.0 | 324.6 | 46.4 | -1.29 | 0.41 | <0,00001 |
| ABCA17P | 72.3 | 4.2 | 96.0 | 8.9 | 307.3 | 15.2 | 201.6 | 113.6 | 1.36 | 2.56 | 0.00175 |
| ABCA4 | 55.7 | 2.2 | 63.2 | 4.3 | 240.7 | 8.3 | 152.0 | 95.1 | 1.29 | 2.45 | 0.00745 |
| ABCB1 | 341.5 | 8.1 | 40.4 | 1.6 | 38.9 | 1.0 | 39.6 | 1.5 | -3.10 | 0.12 | <0,00001 |
| ABCC3 | 54.7 | 3.8 | 706.8 | 196.2 | 1101.2 | 35.2 | 904.0 | 247.9 | 3.94 | 15.36 | <0,00001 |
| ABCG4 | 1243.8 | 73.8 | 539.2 | 95.4 | 238.7 | 16.2 | 389.0 | 172.6 | -1.59 | 0.33 | <0,00001 |
| ABR | 52888.6 | 2459.7 | 22221.0 | 995.0 | 15160.6 | 470.8 | 18690.8 | 3842.1 | -1.48 | 0.36 | <0,00001 |
| ABTB2 | 171.3 | 3.3 | 1424.4 | 38.3 | 239.4 | 31.8 | 831.9 | 634.3 | 1.91 | 3.76 | 0.00057 |
| ACADM | 1648.8 | 190.6 | 794.4 | 73.0 | 716.2 | 113.6 | 755.3 | 97.8 | -1.12 | 0.46 | <0,00001 |
| ACKR3 | 633.7 | 46.5 | 2643.4 | 617.5 | 17131.3 | 705.3 | 9887.3 | 7768.3 | 3.24 | 9.44 | <0,00001 |
| ACOX2 | 963.6 | 58.0 | 2561.4 | 85.2 | 2253.1 | 270.1 | 2407.2 | 248.0 | 1.32 | 2.49 | <0,00001 |
| ACP5 | 3433.9 | 131.8 | 331.7 | 15.9 | 382.1 | 36.8 | 356.9 | 37.6 | -3.26 | 0.10 | <0,00001 |
| ACRC | 222.8 | 27.5 | 458.1 | 31.6 | 453.3 | 37.2 | 455.7 | 32.0 | 1.03 | 2.04 | <0,00001 |
| ADA | 13550.5 | 1266.9 | 3832.5 | 78.4 | 4200.2 | 230.3 | 4016.3 | 252.9 | -1.75 | 0.30 | <0,00001 |
| ADAMTS5 | 5561.9 | 595.8 | 29092.4 | 2761.7 | 10646.9 | 631.1 | 19869.6 | 10032.4 | 1.71 | 3.28 | <0,00001 |
| ADGRL2 | 291.4 | 12.9 | 102.5 | 3.0 | 94.0 | 3.7 | 98.2 | 5.5 | -1.57 | 0.34 | <0,00001 |
| ADGRL3 | 165.8 | 20.7 | 52.4 | 4.4 | 50.1 | 0.7 | 51.2 | 3.1 | -1.69 | 0.31 | <0,00001 |
| ADRA2A | 36.7 | 6.1 | 547.6 | 80.2 | 421.8 | 35.1 | 484.7 | 88.4 | 3.67 | 12.76 | <0,00001 |
| ADRA2C | 157.8 | 10.5 | 2022.6 | 204.6 | 205.5 | 7.7 | 1114.1 | 980.5 | 2.18 | 4.52 | 0.00047 |
| ADTRP | 7978.4 | 562.3 | 4470.1 | 197.2 | 2485.5 | 742.3 | 3477.8 | 1173.9 | -1.15 | 0.45 | 0.00007 |
| AIM1 | 35.6 | 4.4 | 47.1 | 4.3 | 122.7 | 12.4 | 84.9 | 41.3 | 1.17 | 2.26 | 0.00307 |
| AK7 | 99.6 | 7.4 | 41.8 | 1.0 | 35.4 | 3.5 | 38.6 | 4.2 | -1.36 | 0.39 | <0,00001 |
| AKR1B1 | 5571.9 | 113.0 | 17590.6 | 2686.0 | 7689.1 | 515.4 | 12639.8 | 5587.2 | 1.12 | 2.18 | 0.00074 |
| AKR1B10 | 37.3 | 1.7 | 65.5 | 1.9 | 322.0 | 16.7 | 193.8 | 137.6 | 2.05 | 4.14 | 0.00009 |
| AKR1C3 | 256.8 | 23.6 | 303.9 | 39.8 | 793.3 | 38.5 | 548.6 | 264.1 | 1.02 | 2.03 | 0.00698 |
| ALDH1A1 | 187.7 | 20.2 | 37.9 | 2.4 | 33.5 | 2.6 | 35.7 | 3.3 | -2.39 | 0.19 | <0,00001 |
| ALDH3B1 | 748.5 | 48.8 | 181.5 | 16.4 | 284.6 | 16.1 | 233.0 | 57.1 | -1.66 | 0.32 | <0,00001 |
| ALPK2 | 40.1 | 2.5 | 710.1 | 141.7 | 58.4 | 5.3 | 384.2 | 360.5 | 2.41 | 5.32 | 0.00019 |
| ALPK3 | 160.5 | 6.8 | 37.6 | 2.1 | 36.4 | 1.9 | 37.0 | 1.9 | -2.12 | 0.23 | <0,00001 |
| AMIGO2 | 3305.3 | 181.0 | 23702.5 | 1683.5 | 13099.1 | 1659.1 | 18400.8 | 5875.2 | 2.40 | 5.29 | <0,00001 |
| AMY1C | 156.9 | 18.1 | 327.7 | 38.5 | 335.2 | 37.4 | 331.5 | 35.3 | 1.07 | 2.10 | <0,00001 |
| ANGPTL4 | 3921.3 | 188.0 | 33633.4 | 5158.9 | 13038.8 | 332.6 | 23336.1 | 11516.8 | 2.41 | 5.32 | <0,00001 |
| ANGPTL7 | 552.2 | 25.5 | 919.4 | 30.0 | 2421.7 | 432.4 | 1670.6 | 851.6 | 1.49 | 2.81 | 0.00005 |
| ANKRD1 | 1295.4 | 85.4 | 541.2 | 208.9 | 283.6 | 48.5 | 412.4 | 196.6 | -1.57 | 0.34 | <0,00001 |
| ANKRD18B | 158.9 | 24.5 | 62.3 | 1.4 | 45.9 | 5.0 | 54.1 | 9.4 | -1.54 | 0.34 | <0,00001 |
| ANKS1A | 4533.3 | 181.0 | 2065.9 | 76.8 | 2206.8 | 48.8 | 2136.4 | 96.0 | -1.08 | 0.47 | <0,00001 |
| ANLN | 234.5 | 12.5 | 124.3 | 7.3 | 60.1 | 1.3 | 92.2 | 34.7 | -1.30 | 0.41 | 0.00001 |
| ANO2 | 157.1 | 10.1 | 49.4 | 5.5 | 35.1 | 1.7 | 42.2 | 8.6 | -1.89 | 0.27 | <0,00001 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ANXA1 | 15933.2 | 526.5 | 45528.4 | 1852.7 | 39568.4 | 3587.1 | 42548.4 | 4139.4 | 1.41 | 2.66 | <0,00001 |
| ANXA2P3 | 1293.1 | 149.5 | 3369.3 | 152.6 | 2117.1 | 201.6 | 2743.2 | 689.5 | 1.06 | 2.09 | <0,00001 |
| ANXA2R | 133.0 | 5.2 | 57.5 | 4.5 | 66.3 | 3.9 | 61.9 | 6.1 | -1.10 | 0.47 | <0,00001 |
| AOX1 | 56.1 | 3.2 | 2692.8 | 584.3 | 113.1 | 4.7 | 1402.9 | 1431.0 | 2.97 | 7.84 | 0.00001 |
| APCDD1L | 174.3 | 8.6 | 2212.9 | 180.1 | 1547.1 | 27.6 | 1880.0 | 375.3 | 3.39 | 10.47 | <0,00001 |
| AR | 69.7 | 6.6 | 161.2 | 12.6 | 123.7 | 8.8 | 142.5 | 22.4 | 1.03 | 2.04 | <0,00001 |
| ARHGAP18 | 311.7 | 13.6 | 1063.4 | 43.3 | 830.6 | 44.5 | 947.0 | 130.9 | 1.59 | 3.02 | <0,00001 |
| ARHGAP22 | 497.9 | 7.6 | 4455.8 | 180.4 | 7688.7 | 214.3 | 6072.2 | 1737.7 | 3.52 | 11.49 | <0,00001 |
| ARHGAP31 | 45.3 | 2.0 | 147.5 | 9.6 | 59.4 | 6.2 | 103.4 | 47.6 | 1.12 | 2.17 | 0.00309 |
| ARHGDIB | 736.2 | 33.3 | 168.5 | 8.8 | 104.9 | 8.8 | 136.7 | 34.9 | -2.39 | 0.19 | <0,00001 |
| ARHGEF16 | 429.7 | 20.7 | 56.3 | 3.8 | 48.6 | 1.7 | 52.5 | 4.9 | -3.03 | 0.12 | <0,00001 |
| ARHGEF19 | 130.9 | 10.2 | 487.9 | 29.6 | 183.5 | 9.1 | 335.7 | 163.9 | 1.27 | 2.42 | 0.00081 |
| ARHGEF3 | 3148.5 | 128.0 | 521.6 | 36.6 | 639.2 | 18.2 | 580.4 | 68.3 | -2.43 | 0.19 | <0,00001 |
| ARL4C | 1941.8 | 336.9 | 3318.6 | 422.3 | 11227.0 | 1195.5 | 7272.8 | 4307.9 | 1.72 | 3.30 | 0.00008 |
| ARNT2 | 4441.9 | 178.1 | 1711.5 | 57.0 | 2211.4 | 80.0 | 1961.4 | 274.9 | -1.17 | 0.44 | <0,00001 |
| ART5 | 261.7 | 19.4 | 54.0 | 17.6 | 65.6 | 3.1 | 59.8 | 13.3 | -2.12 | 0.23 | <0,00001 |
| ASL | 345.1 | 29.5 | 816.1 | 83.7 | 723.2 | 69.4 | 769.6 | 86.8 | 1.15 | 2.22 | <0,00001 |
| ASPN | 189.2 | 12.1 | 48.1 | 1.4 | 88.5 | 10.1 | 68.3 | 22.6 | -1.44 | 0.37 | <0,00001 |
| ASS1 | 567.1 | 45.7 | 188.9 | 18.2 | 173.1 | 14.4 | 181.0 | 17.4 | -1.64 | 0.32 | <0,00001 |
| ATP6AP1L | 127.4 | 8.1 | 220.9 | 13.0 | 322.1 | 22.9 | 271.5 | 56.7 | 1.08 | 2.11 | <0,00001 |
| ATP6V0A4 | 202.9 | 15.6 | 87.9 | 7.6 | 55.2 | 4.0 | 71.5 | 18.4 | -1.48 | 0.36 | <0,00001 |
| ATP6V1B2 | 9860.1 | 113.3 | 4053.7 | 77.0 | 4288.8 | 146.7 | 4171.3 | 166.0 | -1.24 | 0.42 | <0,00001 |
| ATP6V1G2 | 110.6 | 11.7 | 826.1 | 26.9 | 849.2 | 46.6 | 837.6 | 37.3 | 2.91 | 7.54 | <0,00001 |
| B3GAT1 | 343.0 | 28.1 | 2054.4 | 203.3 | 455.4 | 23.6 | 1254.9 | 865.2 | 1.63 | 3.10 | 0.00123 |
| B3GNT5 | 227.1 | 9.5 | 146.7 | 5.2 | 57.0 | 3.5 | 101.9 | 48.2 | -1.09 | 0.47 | 0.00299 |
| BAG2 | 4780.9 | 92.1 | 1810.0 | 84.6 | 2268.2 | 84.0 | 2039.1 | 257.0 | -1.22 | 0.43 | <0,00001 |
| BEND5 | 193.4 | 15.3 | 88.8 | 9.5 | 66.8 | 6.2 | 77.8 | 13.9 | -1.30 | 0.41 | <0,00001 |
| BEST1 | 171.5 | 55.5 | 54.2 | 2.6 | 39.6 | 3.6 | 46.9 | 8.3 | -1.83 | 0.28 | <0,00001 |
| BEX2 | 50948.8 | 1194.2 | 17636.6 | 1500.5 | 16016.2 | 595.0 | 16826.4 | 1366.3 | -1.59 | 0.33 | <0,00001 |
| BEX5 | 233.1 | 8.4 | 87.4 | 2.6 | 39.4 | 3.0 | 63.4 | 25.8 | -1.80 | 0.29 | <0,00001 |
| BGN | 879.4 | 32.4 | 39.5 | 3.0 | 73.5 | 3.5 | 56.5 | 18.4 | -3.88 | 0.07 | <0,00001 |
| BHLHE41 | 2185.8 | 76.7 | 12869.9 | 457.8 | 3144.7 | 168.6 | 8007.3 | 5208.1 | 1.66 | 3.16 | 0.00052 |
| BICC1 | 39.6 | 2.2 | 62.9 | 5.3 | 180.4 | 2.6 | 121.7 | 62.9 | 1.50 | 2.83 | 0.00023 |
| BIRC3 | 51.7 | 2.0 | 760.6 | 162.1 | 46.8 | 1.8 | 403.7 | 396.1 | 2.10 | 4.28 | 0.00206 |
| BMP6 | 3018.1 | 158.0 | 1195.1 | 88.8 | 198.7 | 2.3 | 696.9 | 535.7 | -1.79 | 0.29 | 0.00128 |
| BNIP3 | 15476.1 | 1556.0 | 25858.2 | 2116.5 | 41434.3 | 885.0 | 33646.2 | 8460.1 | 1.10 | 2.14 | <0,00001 |
| BPIFB4 | 174.6 | 15.1 | 36.9 | 1.0 | 41.0 | 1.6 | 38.9 | 2.5 | -2.16 | 0.22 | <0,00001 |
| BPIFC | 68.6 | 3.7 | 33.1 | 2.4 | 31.7 | 1.0 | 32.4 | 1.9 | -1.08 | 0.47 | <0,00001 |
| BSCL2 | 671.2 | 44.9 | 1027.4 | 74.5 | 1795.7 | 183.2 | 1411.6 | 430.6 | 1.04 | 2.06 | 0.00001 |
| BST1 | 114.6 | 10.6 | 68.3 | 2.4 | 43.0 | 3.4 | 55.6 | 13.8 | -1.03 | 0.49 | <0,00001 |
| BST2 | 71.4 | 4.5 | 78.8 | 12.3 | 346.8 | 83.1 | 212.8 | 153.5 | 1.37 | 2.59 | 0.00867 |
| C10orf107 | 67.6 | 3.8 | 189.7 | 21.6 | 470.8 | 31.2 | 330.3 | 152.3 | 2.15 | 4.45 | <0,00001 |
| C10orf11 | 88.2 | 10.5 | 418.7 | 57.2 | 353.9 | 17.7 | 386.3 | 52.3 | 2.12 | 4.33 | <0,00001 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| C11orf52 | 109.4 | 6.8 | 36.3 | 2.4 | 35.2 | 1.6 | 35.8 | 2.0 | -1.61 | 0.33 | <0,00001 |
| C17orf97 | 279.1 | 21.6 | 127.2 | 5.7 | 134.7 | 3.3 | 130.9 | 5.9 | -1.09 | 0.47 | <0,00001 |
| C19orf60 | 1621.6 | 61.6 | 3541.3 | 82.9 | 3344.2 | 109.9 | 3442.8 | 138.6 | 1.09 | 2.12 | <0,00001 |
| C1orf132 | 52.5 | 3.9 | 552.8 | 68.8 | 808.9 | 197.5 | 680.9 | 193.6 | 3.62 | 12.30 | <0,00001 |
| C1orf233 | 304.2 | 26.6 | 1651.9 | 201.7 | 998.8 | 49.1 | 1325.3 | 374.7 | 2.07 | 4.21 | <0,00001 |
| C1orf53 | 263.0 | 29.4 | 1676.2 | 69.8 | 875.9 | 60.3 | 1276.0 | 432.0 | 2.20 | 4.61 | <0,00001 |
| C1QL1 | 60.2 | 7.2 | 88.9 | 4.5 | 430.0 | 33.5 | 259.5 | 183.7 | 1.82 | 3.53 | 0.00047 |
| C2orf15 | 195.1 | 7.7 | 75.4 | 9.0 | 53.2 | 1.8 | 64.3 | 13.3 | -1.58 | 0.33 | <0,00001 |
| C2orf74 | 322.0 | 20.9 | 635.8 | 28.8 | 850.7 | 12.6 | 743.2 | 116.7 | 1.20 | 2.29 | <0,00001 |
| C3 | 145.6 | 8.3 | 13215.1 | 3320.2 | 1775.4 | 290.7 | 7495.3 | 6492.4 | 4.46 | 21.96 | <0,00001 |
| C4orf19 | 235.5 | 18.5 | 107.7 | 15.9 | 36.7 | 1.7 | 72.2 | 39.4 | -1.58 | 0.33 | 0.00007 |
| C4orf26 | 35.0 | 1.4 | 249.2 | 66.1 | 67.2 | 9.0 | 158.2 | 106.7 | 1.93 | 3.81 | 0.00006 |
| C5orf30 | 640.6 | 44.3 | 1729.3 | 203.2 | 919.1 | 36.6 | 1324.2 | 453.7 | 1.01 | 2.02 | 0.00015 |
| C6orf15 | 35.5 | 2.2 | 78.0 | 14.2 | 89.7 | 6.5 | 83.8 | 12.0 | 1.24 | 2.36 | <0,00001 |
| C7orf69 | 63.7 | 5.6 | 80.3 | 9.1 | 994.6 | 37.2 | 537.5 | 489.3 | 2.28 | 4.86 | 0.00043 |
| CA14 | 3712.0 | 145.1 | 79.6 | 3.9 | 248.5 | 17.0 | 164.0 | 91.0 | -4.16 | 0.06 | <0,00001 |
| CA2 | 106.2 | 7.2 | 40.6 | 3.0 | 37.7 | 2.9 | 39.1 | 3.2 | -1.44 | 0.37 | <0,00001 |
| CACNA2D1 | 37.6 | 2.0 | 97.8 | 12.5 | 154.9 | 8.2 | 126.4 | 32.0 | 1.72 | 3.29 | <0,00001 |
| CADPS2 | 214.3 | 10.3 | 64.7 | 1.2 | 41.6 | 1.2 | 53.1 | 12.4 | -2.00 | 0.25 | <0,00001 |
| CALB2 | 35.7 | 1.2 | 154.1 | 22.7 | 71.7 | 9.8 | 112.9 | 46.9 | 1.58 | 3.00 | <0,00001 |
| CAMSAP3 | 432.8 | 19.4 | 113.3 | 4.2 | 116.0 | 10.6 | 114.6 | 7.6 | -1.91 | 0.27 | <0,00001 |
| CAPG | 3233.9 | 97.6 | 1084.5 | 104.0 | 2006.7 | 100.7 | 1545.6 | 501.9 | -1.04 | 0.49 | 0.00004 |
| CARD6 | 93.1 | 7.3 | 2084.7 | 121.8 | 2127.3 | 66.1 | 2106.0 | 93.6 | 4.49 | 22.48 | <0,00001 |
| CASP1 | 32.5 | 1.0 | 150.1 | 16.1 | 117.6 | 10.5 | 133.8 | 21.5 | 2.03 | 4.07 | <0,00001 |
| CCDC153 | 383.7 | 14.7 | 157.2 | 10.4 | 115.2 | 6.6 | 136.2 | 23.8 | -1.48 | 0.36 | <0,00001 |
| CCDC176 | 218.7 | 11.2 | 417.1 | 11.6 | 487.9 | 17.4 | 452.5 | 40.3 | 1.05 | 2.06 | <0,00001 |
| CCDC3 | 79.0 | 3.0 | 187.4 | 7.5 | 665.2 | 27.8 | 426.3 | 256.1 | 2.19 | 4.57 | <0,00001 |
| CCDC51 | 4383.9 | 150.5 | 1636.1 | 103.6 | 2421.6 | 186.3 | 2028.9 | 442.4 | -1.10 | 0.47 | <0,00001 |
| CCDC68 | 38.5 | 2.8 | 62.3 | 3.6 | 110.8 | 18.8 | 86.6 | 28.8 | 1.13 | 2.19 | 0.00005 |
| CCDC8 | 1322.4 | 102.5 | 48.0 | 1.4 | 45.4 | 2.3 | 46.7 | 2.3 | -4.81 | 0.04 | <0,00001 |
| CCIN | 78.3 | 7.1 | 206.5 | 22.3 | 128.9 | 18.4 | 167.7 | 45.6 | 1.08 | 2.11 | 0.00001 |
| CCL11 | 32.7 | 1.8 | 34.2 | 1.5 | 218.8 | 11.7 | 126.5 | 99.0 | 1.61 | 3.05 | 0.00622 |
| CCL2 | 3913.5 | 71.2 | 3569.5 | 464.4 | 34837.9 | 3164.6 | 19203.7 | 16844.3 | 1.78 | 3.44 | 0.00480 |
| CCL7 | 29.5 | 0.8 | 95.5 | 19.3 | 4234.7 | 683.7 | 2165.1 | 2257.4 | 2.90 | 7.47 | 0.00007 |
| CD24 | 5536.1 | 256.2 | 86.0 | 7.2 | 521.3 | 52.7 | 303.7 | 235.3 | -3.57 | 0.08 | <0,00001 |
| CD248 | 210.1 | 14.4 | 80.1 | 6.2 | 120.7 | 4.8 | 100.4 | 22.3 | -1.06 | 0.48 | <0,00001 |
| CD68 | 398.7 | 23.7 | 619.5 | 53.2 | 1465.3 | 102.8 | 1042.4 | 458.4 | 1.31 | 2.48 | 0.00009 |
| CD70 | 43.0 | 2.2 | 75.6 | 2.7 | 1729.7 | 105.0 | 902.6 | 886.8 | 2.86 | 7.26 | 0.00003 |
| CD82 | 755.7 | 87.7 | 2947.8 | 544.7 | 1561.0 | 123.8 | 2254.4 | 826.6 | 1.52 | 2.87 | <0,00001 |
| CDA | 42.6 | 3.6 | 275.9 | 55.7 | 50.2 | 6.8 | 163.0 | 126.1 | 1.63 | 3.09 | 0.00394 |
| CDH11 | 3754.7 | 282.0 | 29176.7 | 1403.0 | 5496.1 | 307.3 | 17336.4 | 12692.7 | 1.88 | 3.69 | 0.00038 |
| CDKL2 | 113.5 | 14.5 | 54.9 | 4.3 | 55.0 | 1.7 | 55.0 | 3.0 | -1.05 | 0.48 | <0,00001 |
| CDKN2C | 223.1 | 5.7 | 271.7 | 13.4 | 808.3 | 13.7 | 540.0 | 287.1 | 1.18 | 2.26 | 0.00387 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| CDKN3 | 784.3 | 43.5 | 176.9 | 12.3 | 309.8 | 23.5 | 243.3 | 73.1 | -1.65 | 0.32 | <0,00001 |
| CDO1 | 5526.4 | 12.3 | 354.0 | 15.8 | 2510.3 | 259.6 | 1432.2 | 1165.1 | -1.62 | 0.33 | 0.00602 |
| CDX1 | 70.8 | 3.3 | 81.3 | 7.1 | 288.1 | 31.7 | 184.7 | 112.6 | 1.25 | 2.37 | 0.00764 |
| CENPV | 318.0 | 30.3 | 132.7 | 10.4 | 62.0 | 2.8 | 97.3 | 38.4 | -1.64 | 0.32 | <0,00001 |
| CENPVP1 | 191.9 | 9.7 | 51.1 | 3.8 | 51.4 | 2.6 | 51.3 | 3.0 | -1.90 | 0.27 | <0,00001 |
| CH25H | 29.0 | 0.9 | 33.6 | 1.5 | 700.5 | 75.5 | 367.0 | 359.9 | 2.45 | 5.47 | 0.00038 |
| CHCHD10 | 4382.2 | 126.2 | 897.0 | 34.5 | 2083.3 | 99.4 | 1490.1 | 637.9 | -1.48 | 0.36 | <0,00001 |
| CHEK2 | 184.8 | 11.4 | 456.5 | 51.9 | 373.5 | 4.3 | 415.0 | 56.0 | 1.16 | 2.24 | <0,00001 |
| CHI3L2 | 31.6 | 2.0 | 127.0 | 17.0 | 156.4 | 13.3 | 141.7 | 21.1 | 2.15 | 4.44 | <0,00001 |
| CHODL | 254.1 | 10.9 | 79.9 | 9.9 | 84.4 | 2.3 | 82.1 | 7.1 | -1.63 | 0.32 | <0,00001 |
| CHST1 | 105.5 | 8.9 | 45.3 | 2.2 | 35.8 | 2.7 | 40.5 | 5.6 | -1.38 | 0.39 | <0,00001 |
| CHST6 | 114.4 | 9.5 | 158.3 | 34.2 | 502.2 | 32.5 | 330.2 | 186.4 | 1.39 | 2.63 | 0.00132 |
| CHST7 | 467.1 | 16.6 | 853.6 | 94.5 | 1375.7 | 26.6 | 1114.6 | 286.4 | 1.23 | 2.35 | <0,00001 |
| CHSY3 | 205.1 | 14.3 | 85.7 | 8.1 | 93.4 | 4.5 | 89.6 | 7.4 | -1.19 | 0.44 | <0,00001 |
| CILP | 39.0 | 2.3 | 45.9 | 2.0 | 1317.9 | 114.7 | 681.9 | 684.1 | 2.60 | 6.07 | 0.00021 |
| CIT | 49.7 | 3.2 | 152.3 | 11.9 | 214.1 | 6.2 | 183.2 | 34.2 | 1.87 | 3.66 | <0,00001 |
| CKMT2 | 60.3 | 8.1 | 102.7 | 5.5 | 239.8 | 14.5 | 171.3 | 74.0 | 1.42 | 2.68 | 0.00004 |
| CLCNKA | 85.1 | 7.3 | 38.3 | 2.1 | 38.3 | 2.1 | 38.3 | 1.9 | -1.14 | 0.45 | <0,00001 |
| CLDN14 | 163.6 | 12.0 | 49.3 | 4.4 | 81.7 | 6.1 | 65.5 | 18.0 | -1.31 | 0.40 | <0,00001 |
| CLDN19 | 146.0 | 16.3 | 39.5 | 0.8 | 35.4 | 1.3 | 37.5 | 2.4 | -1.96 | 0.26 | <0,00001 |
| CLDND1 | 6806.4 | 330.4 | 1430.6 | 36.7 | 1442.9 | 83.9 | 1436.8 | 60.3 | -2.24 | 0.21 | <0,00001 |
| CLGN | 3099.0 | 253.1 | 973.7 | 44.7 | 389.4 | 9.8 | 681.6 | 313.7 | -2.06 | 0.24 | <0,00001 |
| CLIC6 | 9867.7 | 536.1 | 1033.5 | 47.9 | 927.7 | 94.4 | 980.6 | 89.4 | -3.32 | 0.10 | <0,00001 |
| CLUL1 | 87.0 | 3.9 | 37.7 | 2.7 | 47.0 | 2.2 | 42.3 | 5.5 | -1.04 | 0.49 | <0,00001 |
| CMTM2 | 77.9 | 3.4 | 33.4 | 2.4 | 41.5 | 2.5 | 37.4 | 4.9 | -1.06 | 0.48 | <0,00001 |
| CNIH3 | 111.1 | 6.3 | 1089.4 | 65.9 | 476.9 | 30.1 | 783.2 | 330.8 | 2.68 | 6.39 | <0,00001 |
| CNTN6 | 475.9 | 32.7 | 40.5 | 2.1 | 38.1 | 1.7 | 39.3 | 2.2 | -3.59 | 0.08 | <0,00001 |
| CNTNAP1 | 112.0 | 7.9 | 309.0 | 22.4 | 341.1 | 34.0 | 325.0 | 31.7 | 1.53 | 2.89 | <0,00001 |
| COL10A1 | 47.8 | 3.4 | 1546.5 | 200.8 | 466.2 | 48.7 | 1006.3 | 593.1 | 3.97 | 15.68 | <0,00001 |
| COL11A2 | 971.7 | 80.7 | 110.5 | 6.1 | 306.3 | 34.2 | 208.4 | 107.1 | -2.08 | 0.24 | <0,00001 |
| COL13A1 | 37.0 | 0.9 | 384.9 | 52.4 | 43.4 | 2.5 | 214.1 | 185.7 | 1.99 | 3.97 | 0.00138 |
| COL22A1 | 81.5 | 1.4 | 30.8 | 2.1 | 32.7 | 0.8 | 31.7 | 1.8 | -1.36 | 0.39 | <0,00001 |
| COL4A4 | 534.1 | 111.4 | 2473.2 | 583.4 | 852.3 | 162.8 | 1662.7 | 952.8 | 1.50 | 2.83 | 0.00038 |
| COL7A1 | 1057.8 | 132.0 | 2157.7 | 146.6 | 3485.8 | 169.3 | 2821.8 | 724.9 | 1.39 | 2.61 | <0,00001 |
| COL8A2 | 1192.6 | 155.3 | 13130.6 | 2575.8 | 5637.1 | 70.7 | 9383.8 | 4346.2 | 2.81 | 7.02 | <0,00001 |
| COL9A2 | 6135.6 | 454.3 | 410.0 | 69.6 | 689.9 | 52.7 | 549.9 | 160.2 | -3.40 | 0.09 | <0,00001 |
| COL9A3 | 3680.9 | 670.4 | 394.2 | 25.3 | 234.1 | 28.0 | 314.1 | 89.1 | -3.46 | 0.09 | <0,00001 |
| COPZ2 | 859.6 | 15.0 | 3984.7 | 405.3 | 6813.0 | 215.2 | 5398.9 | 1541.3 | 2.59 | 6.01 | <0,00001 |
| CORO2B | 110.9 | 11.3 | 666.7 | 56.3 | 909.6 | 117.5 | 788.1 | 155.3 | 2.79 | 6.93 | <0,00001 |
| CP | 63.5 | 10.1 | 37.1 | 1.9 | 838.5 | 88.1 | 437.8 | 432.2 | 1.88 | 3.67 | 0.00847 |
| CPAMD8 | 136.3 | 13.0 | 311.4 | 30.3 | 241.0 | 14.9 | 276.2 | 43.6 | 1.01 | 2.01 | <0,00001 |
| CPE | 1785.8 | 130.2 | 4000.6 | 331.0 | 5876.1 | 460.9 | 4938.3 | 1069.1 | 1.45 | 2.73 | <0,00001 |
| CPNE5 | 751.7 | 38.6 | 67.9 | 4.1 | 89.2 | 6.1 | 78.5 | 12.4 | -3.25 | 0.11 | <0,00001 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| CPZ | 90.8 | 8.6 | 102.2 | 7.9 | 1368.0 | 95.7 | 735.1 | 679.5 | 2.21 | 4.62 | 0.00075 |
| CRB2 | 244.2 | 11.5 | 141.8 | 13.7 | 38.9 | 3.6 | 90.4 | 55.8 | -1.30 | 0.41 | 0.00554 |
| CRB3 | 181.2 | 7.2 | 82.9 | 2.7 | 61.6 | 4.8 | 72.2 | 12.0 | -1.32 | 0.40 | <0,00001 |
| CRH | 38.8 | 3.5 | 309.3 | 74.3 | 3048.0 | 158.9 | 1678.7 | 1468.4 | 4.05 | 16.61 | <0,00001 |
| CRIP1 | 154.2 | 21.9 | 1549.6 | 249.3 | 441.1 | 14.2 | 995.3 | 614.6 | 2.42 | 5.35 | <0,00001 |
| CRISPLD1 | 803.1 | 61.6 | 75.3 | 5.4 | 194.3 | 6.9 | 134.8 | 63.9 | -2.43 | 0.19 | <0,00001 |
| CRNDE | 1240.3 | 112.0 | 2378.2 | 157.5 | 3875.8 | 352.1 | 3127.0 | 839.4 | 1.31 | 2.47 | <0,00001 |
| CRTAC1 | 146.7 | 14.2 | 38.0 | 0.9 | 41.3 | 2.2 | 39.6 | 2.3 | -1.89 | 0.27 | <0,00001 |
| CRYM | 526.0 | 34.9 | 54.2 | 1.0 | 85.2 | 3.5 | 69.7 | 16.7 | -2.88 | 0.14 | <0,00001 |
| CSF1R | 16631.9 | 632.6 | 626.1 | 24.4 | 2262.4 | 155.4 | 1444.2 | 880.7 | -3.20 | 0.11 | <0,00001 |
| CSPG4 | 469.6 | 35.4 | 943.7 | 26.8 | 3826.0 | 327.4 | 2384.8 | 1555.6 | 2.08 | 4.22 | 0.00001 |
| CSPG5 | 115.0 | 6.5 | 59.3 | 4.6 | 48.9 | 1.7 | 54.1 | 6.4 | -1.09 | 0.47 | <0,00001 |
| CSRNP1 | 1428.7 | 76.0 | 595.9 | 29.9 | 673.9 | 53.8 | 634.9 | 58.0 | -1.17 | 0.45 | <0,00001 |
| CTSH | 15738.6 | 1217.9 | 1812.6 | 132.1 | 1341.5 | 46.3 | 1577.0 | 268.0 | -3.29 | 0.10 | <0,00001 |
| CTSK | 1069.2 | 104.7 | 2759.4 | 228.1 | 3349.9 | 98.7 | 3054.7 | 355.1 | 1.51 | 2.84 | <0,00001 |
| CTSL | 53116.9 | 1612.8 | 5862.7 | 236.9 | 11787.7 | 987.1 | 8825.2 | 3236.0 | -2.50 | 0.18 | <0,00001 |
| CTSO | 79.5 | 6.8 | 173.9 | 2.8 | 200.8 | 13.4 | 187.4 | 16.9 | 1.23 | 2.35 | <0,00001 |
| CTSV | 88083.5 | 8026.7 | 247.2 | 9.8 | 7286.1 | 563.9 | 3766.6 | 3780.5 | -3.20 | 0.11 | <0,00001 |
| CTSZ | 660.2 | 159.1 | 1919.5 | 713.1 | 1185.4 | 105.1 | 1552.5 | 613.7 | 1.19 | 2.28 | 0.00004 |
| CXADRP3 | 1204.0 | 101.2 | 713.1 | 42.2 | 234.3 | 16.4 | 473.7 | 257.6 | -1.24 | 0.42 | 0.00284 |
| CXCL1 | 494.4 | 26.9 | 1432.8 | 176.5 | 2671.7 | 278.3 | 2052.3 | 696.5 | 1.99 | 3.97 | <0,00001 |
| CXCL14 | 11864.2 | 1356.5 | 558.6 | 92.8 | 228.5 | 22.5 | 393.6 | 187.2 | -4.63 | 0.04 | <0,00001 |
| CXCL8 | 29.1 | 1.0 | 49.9 | 5.1 | 112.2 | 19.1 | 81.0 | 35.8 | 1.41 | 2.66 | 0.00007 |
| CXXC4 | 214.2 | 27.5 | 34.6 | 2.5 | 57.1 | 1.7 | 45.9 | 12.2 | -2.19 | 0.22 | <0,00001 |
| CYB5R2 | 7383.3 | 880.1 | 3350.8 | 205.2 | 2458.8 | 311.1 | 2904.8 | 535.6 | -1.33 | 0.40 | <0,00001 |
| CYP26A1 | 1396.8 | 74.7 | 40.1 | 2.3 | 39.4 | 3.0 | 39.8 | 2.5 | -5.13 | 0.03 | <0,00001 |
| CYP27A1 | 667.8 | 68.6 | 129.3 | 6.7 | 265.4 | 19.2 | 197.4 | 73.9 | -1.70 | 0.31 | <0,00001 |
| CYP2J2 | 318.0 | 8.5 | 101.5 | 11.6 | 37.6 | 2.6 | 69.5 | 35.0 | -2.06 | 0.24 | <0,00001 |
| CYP39A1 | 95.3 | 6.0 | 40.5 | 2.1 | 37.5 | 2.7 | 39.0 | 2.8 | -1.29 | 0.41 | <0,00001 |
| CYTIP | 228.4 | 8.7 | 40.1 | 1.1 | 70.1 | 6.6 | 55.1 | 16.7 | -2.02 | 0.25 | <0,00001 |
| CYTL1 | 1152.1 | 23.1 | 36.7 | 1.8 | 158.3 | 10.1 | 97.5 | 65.4 | -3.17 | 0.11 | <0,00001 |
| DAB2 | 2728.0 | 71.9 | 7753.0 | 1121.2 | 9176.3 | 448.0 | 8464.7 | 1097.1 | 1.62 | 3.08 | <0,00001 |
| DACH1 | 609.1 | 24.2 | 244.4 | 33.0 | 107.6 | 11.4 | 176.0 | 76.6 | -1.70 | 0.31 | <0,00001 |
| DAND5 | 52.2 | 5.3 | 54.4 | 2.4 | 354.9 | 26.8 | 204.7 | 161.6 | 1.62 | 3.08 | 0.00553 |
| DAPP1 | 73.9 | 3.1 | 35.8 | 1.6 | 37.8 | 1.9 | 36.8 | 1.9 | -1.00 | 0.50 | <0,00001 |
| DCHS1 | 375.8 | 17.9 | 48.9 | 2.7 | 92.6 | 12.2 | 70.7 | 24.8 | -2.35 | 0.20 | <0,00001 |
| DCPS | 2777.5 | 134.5 | 1454.4 | 23.2 | 1275.0 | 67.0 | 1364.7 | 106.5 | -1.02 | 0.49 | <0,00001 |
| DCUN1D3 | 1122.0 | 39.1 | 2147.5 | 140.3 | 3791.9 | 210.8 | 2969.7 | 894.4 | 1.37 | 2.58 | <0,00001 |
| DCX | 361.7 | 64.5 | 39.2 | 1.9 | 57.9 | 6.6 | 48.5 | 11.0 | -2.87 | 0.14 | <0,00001 |
| DDB2 | 8705.9 | 570.8 | 1624.0 | 125.4 | 5378.3 | 276.7 | 3501.1 | 2016.6 | -1.20 | 0.43 | 0.00584 |
| DDIT4L | 527.8 | 62.1 | 1764.8 | 181.5 | 2200.1 | 221.9 | 1982.4 | 298.9 | 1.89 | 3.72 | <0,00001 |
| DENND1C | 118.9 | 9.8 | 44.2 | 1.2 | 38.1 | 2.5 | 41.2 | 3.8 | -1.53 | 0.35 | <0,00001 |
| DEPDC1B | 144.4 | 19.1 | 46.1 | 5.1 | 37.6 | 1.2 | 41.8 | 5.7 | -1.77 | 0.29 | <0,00001 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| DEPDC7 | 142.7 | 11.1 | 1468.9 | 107.3 | 429.7 | 22.6 | 949.3 | 560.1 | 2.47 | 5.56 | <0,00001 |
| DEPTOR | 45.8 | 2.9 | 65.1 | 2.5 | 164.5 | 14.7 | 114.8 | 54.0 | 1.25 | 2.38 | 0.00077 |
| DERA | 2303.3 | 124.4 | 4676.9 | 127.5 | 5300.2 | 308.6 | 4988.6 | 398.5 | 1.11 | 2.16 | <0,00001 |
| DGKD | 7426.1 | 287.8 | 3684.6 | 216.0 | 3250.0 | 274.0 | 3467.3 | 325.8 | -1.09 | 0.47 | <0,00001 |
| DGKI | 95.6 | 2.6 | 135.7 | 10.0 | 343.4 | 21.6 | 239.6 | 112.1 | 1.25 | 2.37 | 0.00060 |
| DHX58 | 569.0 | 65.1 | 1218.6 | 103.8 | 1402.2 | 108.0 | 1310.4 | 138.7 | 1.20 | 2.29 | <0,00001 |
| DIO3 | 39.5 | 0.2 | 195.2 | 13.7 | 51.0 | 4.1 | 123.1 | 77.7 | 1.46 | 2.75 | 0.00281 |
| DISP2 | 399.5 | 16.9 | 890.1 | 49.7 | 3014.1 | 28.0 | 1952.1 | 1136.0 | 2.08 | 4.23 | <0,00001 |
| DMKN | 10193.2 | 478.1 | 1236.9 | 189.0 | 153.5 | 15.6 | 695.2 | 592.2 | -3.16 | 0.11 | <0,00001 |
| DNAAF2 | 4137.0 | 193.5 | 2021.5 | 94.6 | 1754.1 | 72.6 | 1887.8 | 162.9 | -1.13 | 0.46 | <0,00001 |
| DNAJB4 | 663.4 | 63.6 | 2716.5 | 200.7 | 1018.5 | 101.4 | 1867.5 | 919.5 | 1.40 | 2.63 | 0.00019 |
| DNAJC15 | 1666.0 | 83.6 | 3843.8 | 152.6 | 3300.3 | 156.4 | 3572.1 | 323.8 | 1.10 | 2.14 | <0,00001 |
| DNASE1L1 | 2222.1 | 101.8 | 596.6 | 22.6 | 1444.8 | 88.4 | 1020.7 | 457.3 | -1.07 | 0.48 | 0.00188 |
| DNMBP | 119.8 | 4.3 | 290.3 | 23.3 | 228.1 | 8.5 | 259.2 | 37.0 | 1.11 | 2.16 | <0,00001 |
| DNTTIP1 | 3091.9 | 74.3 | 4384.1 | 70.8 | 9235.7 | 399.1 | 6809.9 | 2606.8 | 1.09 | 2.13 | 0.00019 |
| DOCK9-AS2 | 412.7 | 33.0 | 205.1 | 18.3 | 184.9 | 24.1 | 195.0 | 22.5 | -1.08 | 0.47 | <0,00001 |
| DPP10-AS1 | 263.1 | 10.9 | 34.5 | 1.8 | 32.5 | 2.3 | 33.5 | 2.2 | -2.97 | 0.13 | <0,00001 |
| DPP4 | 38.0 | 0.8 | 166.9 | 17.0 | 232.3 | 25.1 | 199.6 | 40.2 | 2.37 | 5.16 | <0,00001 |
| DSC1 | 92.3 | 13.1 | 33.7 | 2.7 | 54.4 | 2.9 | 44.1 | 11.3 | -1.06 | 0.48 | <0,00001 |
| DUSP26 | 20903.1 | 1033.2 | 4065.5 | 313.3 | 8497.4 | 492.5 | 6281.4 | 2399.6 | -1.67 | 0.31 | <0,00001 |
| DUSP4 | 217.5 | 18.6 | 804.8 | 145.5 | 1208.3 | 42.9 | 1006.6 | 237.4 | 2.17 | 4.51 | <0,00001 |
| DUXAP10 | 47.2 | 2.5 | 138.1 | 15.9 | 69.6 | 9.0 | 103.8 | 38.5 | 1.09 | 2.13 | 0.00046 |
| DUXAP8 | 33.0 | 2.5 | 178.1 | 10.2 | 62.4 | 2.2 | 120.2 | 62.2 | 1.74 | 3.34 | 0.00002 |
| E2F5 | 1075.9 | 50.1 | 456.7 | 35.5 | 383.8 | 22.3 | 420.3 | 47.7 | -1.35 | 0.39 | <0,00001 |
| E2F7 | 190.6 | 12.7 | 302.9 | 35.0 | 487.4 | 17.9 | 395.1 | 101.9 | 1.03 | 2.04 | <0,00001 |
| EBF4 | 2273.0 | 150.4 | 616.1 | 14.5 | 433.8 | 38.0 | 524.9 | 101.0 | -2.09 | 0.23 | <0,00001 |
| ECM1 | 192.6 | 21.2 | 234.4 | 20.8 | 1127.8 | 99.7 | 681.1 | 482.1 | 1.57 | 2.98 | 0.00253 |
| EDIL3 | 778.6 | 75.7 | 4482.1 | 1164.8 | 1477.7 | 293.7 | 2979.9 | 1788.2 | 1.77 | 3.41 | 0.00003 |
| EEF1A2 | 6433.9 | 376.1 | 1523.5 | 174.3 | 113.2 | 3.9 | 818.3 | 762.4 | -2.27 | 0.21 | 0.00050 |
| EFR3B | 1549.0 | 104.2 | 4959.6 | 456.9 | 1996.0 | 79.6 | 3477.8 | 1613.0 | 1.10 | 2.14 | 0.00207 |
| EFS | 817.0 | 57.0 | 40.2 | 2.5 | 45.1 | 2.6 | 42.7 | 3.5 | -4.25 | 0.05 | <0,00001 |
| EGF | 35.3 | 4.6 | 155.7 | 39.8 | 51.3 | 8.6 | 103.5 | 61.8 | 1.41 | 2.66 | 0.00177 |
| EGFLAM | 141.9 | 4.2 | 37.6 | 1.7 | 50.7 | 3.1 | 44.1 | 7.4 | -1.68 | 0.31 | <0,00001 |
| EGR2 | 64.0 | 1.0 | 112.8 | 19.0 | 2131.9 | 169.7 | 1122.3 | 1085.0 | 2.80 | 6.97 | 0.00003 |
| EID3 | 164.2 | 13.4 | 497.0 | 15.6 | 501.2 | 25.3 | 499.1 | 19.6 | 1.60 | 3.04 | <0,00001 |
| ELAC1 | 238.4 | 21.5 | 689.8 | 21.0 | 589.4 | 28.7 | 639.6 | 58.5 | 1.42 | 2.68 | <0,00001 |
| ELAVL2 | 66.5 | 6.4 | 33.7 | 1.2 | 30.9 | 2.5 | 32.3 | 2.4 | -1.04 | 0.49 | <0,00001 |
| ELFN2 | 100.8 | 6.8 | 306.8 | 52.9 | 875.2 | 64.8 | 591.0 | 308.8 | 2.36 | 5.13 | <0,00001 |
| ELL2 | 5150.6 | 341.1 | 17014.3 | 491.6 | 18032.1 | 2977.0 | 17523.2 | 2048.8 | 1.76 | 3.38 | <0,00001 |
| ELP5 | 713.9 | 14.6 | 986.4 | 33.3 | 2010.8 | 151.1 | 1498.6 | 556.8 | 1.03 | 2.04 | 0.00032 |
| EMILIN2 | 806.9 | 74.4 | 83.6 | 3.2 | 144.4 | 16.2 | 114.0 | 34.3 | -2.77 | 0.15 | <0,00001 |
| EMP2 | 18747.5 | 1763.8 | 3436.8 | 588.1 | 145.2 | 6.3 | 1791.0 | 1801.1 | -2.42 | 0.19 | 0.00049 |
| EMP3 | 1616.2 | 80.1 | 5609.5 | 257.3 | 4607.6 | 386.2 | 5108.5 | 615.8 | 1.65 | 3.14 | <0,00001 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| EMX2 | 33.7 | 1.3 | 104.7 | 3.9 | 57.6 | 3.3 | 81.1 | 25.4 | 1.23 | 2.34 | 0.00001 |
| EMX2OS | 32.3 | 0.8 | 100.0 | 3.0 | 61.2 | 3.1 | 80.6 | 20.9 | 1.30 | 2.46 | <0,00001 |
| ENG | 121.0 | 5.0 | 49.1 | 1.1 | 54.1 | 4.0 | 51.6 | 3.8 | -1.23 | 0.43 | <0,00001 |
| ENO3 | 1445.4 | 88.6 | 242.2 | 7.9 | 495.8 | 68.1 | 369.0 | 142.8 | -1.90 | 0.27 | <0,00001 |
| ENPP1 | 87.5 | 2.9 | 292.4 | 30.6 | 194.1 | 11.1 | 243.2 | 56.7 | 1.45 | 2.74 | <0,00001 |
| ENPP5 | 554.1 | 20.5 | 63.5 | 4.7 | 78.4 | 1.8 | 71.0 | 8.6 | -2.97 | 0.13 | <0,00001 |
| EPB41L2 | 320.5 | 13.8 | 555.9 | 33.3 | 746.9 | 52.2 | 651.4 | 109.9 | 1.01 | 2.02 | <0,00001 |
| EPB41L3 | 1692.6 | 88.6 | 992.6 | 65.2 | 458.7 | 35.3 | 725.6 | 289.5 | -1.17 | 0.45 | 0.00015 |
| EPCAM | 510.7 | 21.0 | 39.7 | 0.7 | 50.9 | 0.8 | 45.3 | 6.0 | -3.49 | 0.09 | <0,00001 |
| EPHX1 | 381.8 | 33.1 | 451.0 | 57.1 | 1311.0 | 122.7 | 881.0 | 468.2 | 1.11 | 2.16 | 0.00649 |
| ERCC6 | 756.6 | 35.3 | 1247.8 | 99.3 | 2465.8 | 240.6 | 1856.8 | 673.0 | 1.25 | 2.38 | 0.00001 |
| ERICH5 | 14754.7 | 523.1 | 1019.5 | 14.1 | 416.5 | 15.7 | 718.0 | 322.6 | -4.13 | 0.06 | <0,00001 |
| ERVMER34- | 117.9 | 8.4 | 36.4 | 1.5 | 36.7 | 1.2 | 36.6 | 1.3 | -1.68 | 0.31 | <0,00001 |
| ESPNL | 170.1 | 10.0 | 439.8 | 59.9 | 2272.6 | 57.9 | 1356.2 | 981.1 | 2.55 | 5.87 | <0,00001 |
| ESRP2 | 1168.2 | 57.6 | 129.0 | 12.1 | 88.4 | 3.3 | 108.7 | 23.2 | -3.39 | 0.10 | <0,00001 |
| ETNPPL | 80.7 | 2.9 | 35.3 | 2.1 | 33.1 | 0.6 | 34.2 | 1.8 | -1.24 | 0.42 | <0,00001 |
| EVA1A | 4781.7 | 181.5 | 1370.6 | 81.8 | 1897.0 | 65.3 | 1633.8 | 289.6 | -1.54 | 0.34 | <0,00001 |
| EYA4 | 80.7 | 19.9 | 32.3 | 1.3 | 30.9 | 3.4 | 31.6 | 2.5 | -1.35 | 0.39 | <0,00001 |
| F10 | 685.1 | 47.5 | 37.4 | 2.5 | 36.5 | 2.0 | 37.0 | 2.1 | -4.20 | 0.05 | <0,00001 |
| F2RL1 | 188.9 | 12.5 | 107.5 | 4.5 | 71.6 | 1.1 | 89.6 | 19.4 | -1.06 | 0.48 | <0,00001 |
| F3 | 284.6 | 19.2 | 2072.2 | 74.5 | 1364.5 | 75.4 | 1718.4 | 384.6 | 2.55 | 5.87 | <0,00001 |
| FAM13A-AS | 128.1 | 12.0 | 42.1 | 2.2 | 68.0 | 2.7 | 55.1 | 14.0 | -1.20 | 0.44 | <0,00001 |
| FAM150B | 53.4 | 4.3 | 1818.2 | 252.5 | 37.4 | 2.0 | 927.8 | 966.2 | 2.37 | 5.16 | 0.00122 |
| FAM168A | 267.0 | 7.2 | 447.2 | 34.4 | 827.3 | 38.6 | 637.3 | 206.0 | 1.22 | 2.33 | <0,00001 |
| FAM174B | 4212.0 | 115.0 | 1065.2 | 130.3 | 778.3 | 33.6 | 921.8 | 176.9 | -2.17 | 0.22 | <0,00001 |
| FAM184A | 817.9 | 24.2 | 200.7 | 9.1 | 312.4 | 5.1 | 256.5 | 60.1 | -1.65 | 0.32 | <0,00001 |
| FAM19A5 | 744.1 | 27.9 | 73.9 | 10.7 | 34.9 | 1.6 | 54.4 | 22.0 | -3.63 | 0.08 | <0,00001 |
| FAM201A | 165.7 | 13.1 | 68.4 | 3.6 | 86.4 | 1.7 | 77.4 | 10.0 | -1.10 | 0.47 | <0,00001 |
| FAM213A | 14507.2 | 490.0 | 4307.5 | 102.7 | 9713.2 | 465.0 | 7010.4 | 2906.3 | -1.00 | 0.50 | 0.00170 |
| FAM46B | 818.0 | 36.4 | 60.7 | 4.4 | 101.5 | 5.3 | 81.1 | 22.3 | -3.28 | 0.10 | <0,00001 |
| FAM49A | 260.9 | 17.1 | 42.4 | 4.7 | 37.9 | 1.9 | 40.2 | 4.1 | -2.70 | 0.15 | <0,00001 |
| FAM71F1 | 283.7 | 23.3 | 78.9 | 9.9 | 159.0 | 15.9 | 118.9 | 44.5 | -1.21 | 0.43 | 0.00002 |
| FANCL | 4459.3 | 284.7 | 1485.9 | 92.3 | 1782.2 | 108.4 | 1634.1 | 183.8 | -1.44 | 0.37 | <0,00001 |
| FANK1 | 725.4 | 51.0 | 1922.8 | 110.6 | 1736.4 | 102.6 | 1829.6 | 140.3 | 1.33 | 2.52 | <0,00001 |
| FAP | 7619.7 | 703.8 | 27142.7 | 3222.9 | 53631.1 | 3970.0 | 40386.9 | 14549.0 | 2.32 | 4.98 | <0,00001 |
| FBLN2 | 9922.6 | 306.2 | 356.6 | 15.1 | 552.8 | 8.7 | 454.7 | 105.5 | -4.38 | 0.05 | <0,00001 |
| FBXL16 | 751.6 | 35.2 | 3915.8 | 184.8 | 2947.8 | 384.0 | 3431.8 | 587.9 | 2.17 | 4.50 | <0,00001 |
| FBXO2 | 26676.5 | 1452.9 | 15777.1 | 2124.4 | 4056.9 | 242.2 | 9917.0 | 6419.2 | -1.27 | 0.41 | 0.00826 |
| FBXO5 | 51.2 | 2.4 | 181.2 | 6.7 | 175.5 | 10.6 | 178.3 | 8.7 | 1.80 | 3.48 | <0,00001 |
| FCHO1 | 209.7 | 5.1 | 135.0 | 9.4 | 49.3 | 2.8 | 92.2 | 46.3 | -1.11 | 0.46 | 0.00436 |
| FDCSP | 82.5 | 6.8 | 19890.3 | 2289.5 | 1530.0 | 161.2 | 10710.1 | 9928.3 | 4.78 | 27.51 | <0,00001 |
| FES | 166.8 | 19.3 | 38.0 | 2.6 | 34.6 | 2.2 | 36.3 | 2.9 | -2.19 | 0.22 | <0,00001 |
| FHOD3 | 4506.6 | 218.1 | 2751.8 | 173.1 | 1316.2 | 57.9 | 2034.0 | 776.6 | -1.10 | 0.47 | 0.00020 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FIGF | 31.1 | 1.6 | 33.8 | 1.6 | 186.4 | 32.9 | 110.1 | 84.4 | 1.54 | 2.91 | 0.00653 |
| FILIP1L | 4232.9 | 298.1 | 10534.9 | 773.6 | 10657.9 | 584.5 | 10596.4 | 638.1 | 1.32 | 2.50 | <0,00001 |
| FJX1 | 1480.9 | 84.5 | 3787.6 | 156.8 | 3510.3 | 117.8 | 3649.0 | 196.1 | 1.30 | 2.46 | <0,00001 |
| FLJ26850 | 55.3 | 1.9 | 96.8 | 3.0 | 171.2 | 7.0 | 134.0 | 40.1 | 1.24 | 2.37 | <0,00001 |
| FLJ31715 | 361.0 | 8.6 | 116.5 | 10.2 | 136.0 | 3.2 | 126.2 | 12.6 | -1.51 | 0.35 | <0,00001 |
| FLRT3 | 2036.9 | 246.4 | 1023.6 | 155.4 | 383.6 | 70.7 | 703.6 | 359.9 | -1.43 | 0.37 | 0.00021 |
| FLVCR1 | 829.9 | 32.9 | 396.4 | 40.9 | 403.3 | 28.1 | 399.8 | 32.7 | -1.05 | 0.48 | <0,00001 |
| FLVCR1-AS1 | 57.5 | 7.2 | 359.7 | 10.5 | 263.0 | 20.5 | 311.4 | 53.9 | 2.41 | 5.31 | <0,00001 |
| FMN1 | 105.6 | 5.0 | 42.9 | 1.4 | 41.5 | 2.4 | 42.2 | 2.0 | -1.33 | 0.40 | <0,00001 |
| FMNL2 | 2104.4 | 62.1 | 774.2 | 4.9 | 977.9 | 34.4 | 876.1 | 111.3 | -1.26 | 0.42 | <0,00001 |
| FOLR1 | 3556.9 | 210.4 | 375.1 | 25.5 | 321.8 | 12.7 | 348.4 | 34.1 | -3.34 | 0.10 | <0,00001 |
| FOXF2 | 1767.9 | 35.8 | 2935.0 | 156.2 | 7550.0 | 147.3 | 5242.5 | 2470.8 | 1.47 | 2.78 | 0.00003 |
| FOXL1 | 367.2 | 39.9 | 180.4 | 4.0 | 175.4 | 18.2 | 177.9 | 12.5 | -1.04 | 0.49 | <0,00001 |
| FPR1 | 46.2 | 3.7 | 218.7 | 13.3 | 52.6 | 1.6 | 135.7 | 89.2 | 1.38 | 2.60 | 0.00664 |
| FRMD5 | 326.6 | 10.6 | 878.0 | 36.0 | 955.4 | 101.0 | 916.7 | 81.5 | 1.49 | 2.80 | <0,00001 |
| FRMPD3 | 110.9 | 7.3 | 168.7 | 7.0 | 287.5 | 26.1 | 228.1 | 66.0 | 1.01 | 2.02 | 0.00002 |
| FRY | 106.1 | 8.8 | 182.6 | 23.7 | 248.2 | 18.7 | 215.4 | 40.3 | 1.01 | 2.01 | <0,00001 |
| FSD1 | 1676.5 | 27.1 | 773.1 | 25.1 | 822.3 | 36.9 | 797.7 | 39.3 | -1.07 | 0.48 | <0,00001 |
| FUCA1 | 3936.7 | 89.3 | 5757.5 | 196.8 | 11453.8 | 299.3 | 8605.6 | 3053.8 | 1.09 | 2.13 | 0.00006 |
| FUT8 | 905.3 | 27.0 | 3196.0 | 332.5 | 1697.6 | 57.9 | 2446.8 | 830.8 | 1.39 | 2.62 | <0,00001 |
| FXYD6 | 134.2 | 6.8 | 55.6 | 5.7 | 50.1 | 4.8 | 52.8 | 5.7 | -1.34 | 0.39 | <0,00001 |
| FZD7 | 319.5 | 22.4 | 1889.8 | 151.5 | 361.8 | 14.9 | 1125.8 | 822.8 | 1.55 | 2.94 | 0.00394 |
| G0S2 | 31.4 | 1.5 | 88.4 | 8.9 | 59.3 | 5.0 | 73.9 | 17.0 | 1.21 | 2.32 | <0,00001 |
| GABRA5 | 124.8 | 7.1 | 37.0 | 0.7 | 31.8 | 2.5 | 34.4 | 3.3 | -1.86 | 0.28 | <0,00001 |
| GADD45A | 26492.7 | 876.3 | 15088.6 | 359.1 | 6214.8 | 114.9 | 10651.7 | 4749.7 | -1.24 | 0.42 | 0.00027 |
| GAL | 162.2 | 6.1 | 605.1 | 85.6 | 842.5 | 104.6 | 723.8 | 154.7 | 2.13 | 4.37 | <0,00001 |
| GAL3ST1 | 52.6 | 3.1 | 229.0 | 8.5 | 91.1 | 6.6 | 160.0 | 74.1 | 1.52 | 2.86 | 0.00004 |
| GAL3ST3 | 666.0 | 63.7 | 90.0 | 11.1 | 72.4 | 3.5 | 81.2 | 12.1 | -3.02 | 0.12 | <0,00001 |
| GALNS | 788.3 | 47.9 | 1727.8 | 67.4 | 1502.8 | 48.9 | 1615.3 | 132.1 | 1.03 | 2.05 | <0,00001 |
| GALNT16 | 60.9 | 1.8 | 3394.3 | 583.5 | 7139.6 | 354.9 | 5267.0 | 2051.3 | 6.13 | 69.93 | <0,00001 |
| GALNT5 | 369.2 | 15.0 | 196.6 | 38.2 | 117.8 | 8.1 | 157.2 | 49.3 | -1.20 | 0.43 | <0,00001 |
| GALNT6 | 178.1 | 24.1 | 35.7 | 1.9 | 31.0 | 1.9 | 33.4 | 3.0 | -2.41 | 0.19 | <0,00001 |
| GAS1 | 268.6 | 38.1 | 52.7 | 2.6 | 88.8 | 1.6 | 70.8 | 19.4 | -1.89 | 0.27 | <0,00001 |
| GAS6 | 1225.1 | 60.1 | 21477.6 | 1727.5 | 6630.7 | 735.1 | 14054.2 | 8030.6 | 3.21 | 9.23 | <0,00001 |
| GATA2-AS1 | 192.3 | 15.0 | 74.7 | 7.6 | 32.7 | 3.2 | 53.7 | 23.1 | -1.76 | 0.30 | <0,00001 |
| GATM | 455.6 | 35.1 | 144.3 | 21.0 | 56.3 | 1.2 | 100.3 | 49.0 | -2.05 | 0.24 | <0,00001 |
| GBF1 | 4712.2 | 413.6 | 8007.6 | 361.7 | 13279.2 | 836.5 | 10643.4 | 2880.2 | 1.15 | 2.22 | <0,00001 |
| GBP2 | 176.9 | 4.6 | 1269.2 | 130.4 | 833.1 | 30.0 | 1051.2 | 249.0 | 2.53 | 5.77 | <0,00001 |
| GCNT1 | 95.6 | 5.9 | 213.6 | 5.8 | 618.6 | 43.5 | 416.1 | 218.4 | 1.96 | 3.90 | <0,00001 |
| GDF15 | 73068.8 | 2793.9 | 182.0 | 8.6 | 361.2 | 23.1 | 271.6 | 97.2 | -7.81 | 0.00 | <0,00001 |
| GEM | 6257.8 | 261.6 | 144.0 | 14.6 | 1508.2 | 124.6 | 826.1 | 733.8 | -2.31 | 0.20 | 0.00021 |
| GGACT | 180.9 | 9.9 | 826.9 | 19.1 | 887.7 | 24.5 | 857.3 | 38.3 | 2.24 | 4.73 | <0,00001 |
| GGT8P | 141.4 | 10.6 | 42.8 | 1.3 | 58.5 | 2.4 | 50.7 | 8.6 | -1.48 | 0.36 | <0,00001 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GGTLC1 | 408.5 | 24.5 | 155.5 | 10.4 | 158.4 | 15.1 | 157.0 | 12.1 | -1.38 | 0.38 | <0,00001 |
| GLI1 | 75.6 | 3.7 | 76.0 | 10.0 | 662.2 | 32.0 | 369.1 | 314.1 | 1.80 | 3.49 | 0.00367 |
| GLIS1 | 528.7 | 72.0 | 550.8 | 56.7 | 2725.3 | 220.4 | 1638.0 | 1171.9 | 1.40 | 2.65 | 0.00844 |
| GLS2 | 168.3 | 3.9 | 62.8 | 1.0 | 79.8 | 2.3 | 71.3 | 9.2 | -1.24 | 0.42 | <0,00001 |
| GMPR | 518.5 | 39.1 | 266.6 | 18.8 | 99.4 | 3.5 | 183.0 | 90.2 | -1.40 | 0.38 | 0.00016 |
| GNG11 | 547.7 | 33.2 | 1020.1 | 43.6 | 3807.1 | 217.7 | 2413.6 | 1496.8 | 1.92 | 3.78 | 0.00002 |
| GNPDA1 | 1148.8 | 60.5 | 526.8 | 50.9 | 542.2 | 29.1 | 534.5 | 39.2 | -1.10 | 0.47 | <0,00001 |
| GPC2 | 1940.8 | 155.6 | 569.2 | 38.9 | 1019.1 | 151.8 | 794.1 | 261.4 | -1.25 | 0.42 | <0,00001 |
| GPC6 | 86.8 | 2.6 | 75.3 | 10.2 | 661.0 | 27.6 | 368.2 | 313.7 | 1.64 | 3.12 | 0.00885 |
| GPM6B | 84.7 | 7.1 | 33.4 | 1.8 | 32.1 | 1.4 | 32.7 | 1.6 | -1.36 | 0.39 | <0,00001 |
| GPR1 | 30.2 | 1.4 | 120.3 | 4.4 | 36.0 | 1.7 | 78.2 | 45.2 | 1.25 | 2.37 | 0.00744 |
| GPR143 | 5005.2 | 261.9 | 539.7 | 62.2 | 53.3 | 3.5 | 296.5 | 263.2 | -3.24 | 0.11 | <0,00001 |
| GPT | 156.7 | 5.8 | 405.5 | 27.5 | 377.8 | 32.1 | 391.6 | 31.4 | 1.32 | 2.50 | <0,00001 |
| GPX3 | 1341.1 | 129.2 | 310.9 | 45.2 | 634.4 | 77.2 | 472.6 | 182.6 | -1.45 | 0.37 | <0,00001 |
| GRAMD1A | 1512.3 | 94.6 | 639.9 | 8.3 | 824.5 | 52.4 | 732.2 | 104.6 | -1.04 | 0.49 | <0,00001 |
| GRAMD3 | 558.5 | 27.7 | 2841.7 | 304.1 | 1144.5 | 42.9 | 1993.1 | 929.2 | 1.73 | 3.32 | <0,00001 |
| GRB14 | 97.5 | 7.5 | 687.7 | 80.8 | 378.8 | 26.7 | 533.3 | 174.2 | 2.38 | 5.19 | <0,00001 |
| GRB7 | 1120.5 | 34.2 | 608.2 | 72.7 | 129.4 | 7.2 | 368.8 | 260.4 | -1.40 | 0.38 | 0.00747 |
| GRHL3 | 104.6 | 5.9 | 45.9 | 2.0 | 49.3 | 2.6 | 47.6 | 2.8 | -1.13 | 0.46 | <0,00001 |
| GRM1 | 863.5 | 46.8 | 128.2 | 43.0 | 416.8 | 14.2 | 272.5 | 157.1 | -1.52 | 0.35 | 0.00059 |
| GRM8 | 229.8 | 7.4 | 41.6 | 1.7 | 65.2 | 1.6 | 53.4 | 12.7 | -2.09 | 0.23 | <0,00001 |
| GSX2 | 383.1 | 3.1 | 112.3 | 32.4 | 75.0 | 4.5 | 93.7 | 29.3 | -1.99 | 0.25 | <0,00001 |
| GTF2E1 | 1831.7 | 43.1 | 902.4 | 45.5 | 790.0 | 27.0 | 846.2 | 69.4 | -1.11 | 0.46 | <0,00001 |
| GUCY1B3 | 82.0 | 8.2 | 54.4 | 2.1 | 1317.6 | 78.0 | 686.0 | 677.2 | 2.04 | 4.11 | 0.00404 |
| GYPC | 198.6 | 17.5 | 75.7 | 5.5 | 78.6 | 7.6 | 77.1 | 6.3 | -1.36 | 0.39 | <0,00001 |
| H1F0 | 1980.3 | 70.9 | 473.7 | 7.3 | 710.1 | 17.3 | 591.9 | 126.9 | -1.72 | 0.30 | <0,00001 |
| HABP4 | 4720.4 | 252.5 | 1962.2 | 104.2 | 1358.9 | 37.1 | 1660.6 | 330.5 | -1.49 | 0.36 | <0,00001 |
| HAPLN1 | 109.2 | 8.3 | 14611.5 | 1928.6 | 515.0 | 63.2 | 7563.2 | 7640.0 | 3.58 | 11.93 | <0,00001 |
| HAPLN3 | 430.2 | 18.8 | 64.1 | 6.0 | 199.3 | 13.1 | 131.7 | 72.8 | -1.58 | 0.33 | 0.00011 |
| HAS1 | 82.2 | 10.2 | 45.7 | 1.0 | 34.4 | 2.9 | 40.0 | 6.4 | -1.04 | 0.49 | <0,00001 |
| HBQ1 | 399.5 | 17.1 | 191.3 | 6.6 | 174.5 | 10.1 | 182.9 | 11.9 | -1.13 | 0.46 | <0,00001 |
| HCST | 175.8 | 11.5 | 430.8 | 40.3 | 318.6 | 31.4 | 374.7 | 68.6 | 1.08 | 2.12 | <0,00001 |
| HDDC3 | 407.5 | 19.3 | 941.0 | 44.2 | 805.2 | 35.1 | 873.1 | 81.5 | 1.10 | 2.14 | <0,00001 |
| HEG1 | 71.2 | 2.5 | 204.6 | 9.5 | 107.1 | 6.8 | 155.8 | 52.7 | 1.09 | 2.13 | 0.00010 |
| HERC5 | 112.4 | 8.1 | 49.9 | 3.2 | 51.1 | 1.9 | 50.5 | 2.5 | -1.15 | 0.45 | <0,00001 |
| HES4 | 15253.6 | 909.3 | 2311.3 | 88.7 | 4114.7 | 288.9 | 3213.0 | 984.0 | -2.19 | 0.22 | <0,00001 |
| HHAT | 471.2 | 6.7 | 734.6 | 20.9 | 1912.1 | 53.3 | 1323.3 | 630.5 | 1.40 | 2.63 | 0.00010 |
| HIST1H1C | 4252.0 | 211.3 | 17911.1 | 408.1 | 14226.9 | 515.9 | 16069.0 | 2015.8 | 1.91 | 3.75 | <0,00001 |
| HIST1H1D | 253.1 | 24.1 | 917.3 | 30.1 | 671.9 | 44.1 | 794.6 | 135.8 | 1.63 | 3.10 | <0,00001 |
| HIST1H1E | 337.4 | 32.8 | 1212.2 | 61.4 | 931.0 | 38.4 | 1071.6 | 157.6 | 1.65 | 3.15 | <0,00001 |
| HIST1H2AA | 47.8 | 2.5 | 120.7 | 1.9 | 91.9 | 6.2 | 106.3 | 15.9 | 1.14 | 2.21 | <0,00001 |
| HIST1H2AC | 39.6 | 3.1 | 99.8 | 7.1 | 63.1 | 1.9 | 81.4 | 20.2 | 1.03 | 2.05 | 0.00001 |
| HIST1H2AD | 1757.3 | 42.3 | 7643.4 | 891.1 | 1902.6 | 46.5 | 4773.0 | 3123.7 | 1.28 | 2.43 | 0.00878 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| HIST1H2BB | 297.5 | 31.0 | 1386.8 | 21.2 | 1162.9 | 70.7 | 1274.8 | 129.1 | 2.09 | 4.25 | <0,00001 |
| HIST1H2BC | 176.3 | 19.2 | 916.6 | 47.2 | 702.3 | 69.8 | 809.5 | 127.1 | 2.18 | 4.52 | <0,00001 |
| HIST1H2BF | 1018.7 | 88.9 | 4755.9 | 69.4 | 4123.5 | 277.8 | 4439.7 | 386.5 | 2.12 | 4.33 | <0,00001 |
| HIST1H2BG | 197.8 | 11.7 | 941.7 | 26.5 | 818.4 | 38.9 | 880.1 | 72.8 | 2.15 | 4.43 | <0,00001 |
| HIST1H2BH | 985.7 | 36.6 | 5159.4 | 125.4 | 4301.6 | 113.8 | 4730.5 | 471.8 | 2.25 | 4.77 | <0,00001 |
| HIST1H2BI | 549.1 | 31.5 | 2383.4 | 94.0 | 2365.5 | 99.6 | 2374.5 | 90.2 | 2.11 | 4.32 | <0,00001 |
| HIST1H2BK | 963.7 | 77.2 | 5939.9 | 211.8 | 5339.6 | 190.1 | 5639.7 | 371.0 | 2.54 | 5.83 | <0,00001 |
| HIST1H2BL | 1799.6 | 69.2 | 8627.6 | 328.5 | 6895.3 | 251.9 | 7761.5 | 964.8 | 2.10 | 4.28 | <0,00001 |
| HIST1H2BM | 708.1 | 56.4 | 3303.9 | 92.3 | 2986.4 | 91.3 | 3145.2 | 189.8 | 2.15 | 4.43 | <0,00001 |
| HIST1H2BO | 816.7 | 52.6 | 4210.3 | 137.6 | 3493.0 | 134.0 | 3851.6 | 403.5 | 2.23 | 4.68 | <0,00001 |
| HIST1H4H | 141.4 | 9.0 | 408.8 | 29.7 | 306.9 | 11.1 | 357.8 | 58.3 | 1.33 | 2.51 | <0,00001 |
| HIST2H2BD | 305.6 | 21.7 | 1321.2 | 46.1 | 1088.0 | 30.0 | 1204.6 | 129.8 | 1.97 | 3.92 | <0,00001 |
| HIVEP2 | 917.8 | 38.1 | 3846.2 | 241.7 | 1261.0 | 78.6 | 2553.6 | 1391.9 | 1.36 | 2.57 | 0.00094 |
| HLA-DPB1 | 79.5 | 5.1 | 37.9 | 2.8 | 34.7 | 0.8 | 36.3 | 2.5 | -1.12 | 0.46 | <0,00001 |
| HLCS | 1079.9 | 99.9 | 2295.5 | 79.1 | 2311.3 | 102.7 | 2303.4 | 85.2 | 1.09 | 2.13 | <0,00001 |
| HLX | 37.1 | 2.0 | 94.6 | 4.3 | 112.4 | 5.9 | 103.5 | 10.7 | 1.48 | 2.78 | <0,00001 |
| HMGB3 | 3795.7 | 113.0 | 2038.7 | 135.5 | 1583.2 | 80.7 | 1810.9 | 264.4 | -1.06 | 0.48 | <0,00001 |
| HMGB3P1 | 1109.8 | 46.0 | 574.3 | 60.5 | 350.8 | 2.5 | 462.5 | 125.8 | -1.24 | 0.42 | <0,00001 |
| HOMER2 | 1703.4 | 113.9 | 545.0 | 33.8 | 813.0 | 27.3 | 679.0 | 146.0 | -1.31 | 0.40 | <0,00001 |
| HOXB9 | 47.6 | 4.7 | 1914.1 | 61.6 | 39.2 | 5.1 | 976.6 | 1003.0 | 2.48 | 5.57 | 0.00069 |
| HPDL | 432.6 | 46.2 | 131.0 | 10.7 | 95.4 | 3.2 | 113.2 | 20.4 | -1.92 | 0.26 | <0,00001 |
| HPS5 | 600.3 | 29.8 | 1359.6 | 97.9 | 1072.6 | 46.4 | 1216.1 | 169.0 | 1.01 | 2.02 | <0,00001 |
| HSD17B2 | 26826.6 | 1644.6 | 59.1 | 3.9 | 1119.5 | 123.1 | 589.3 | 572.5 | -4.08 | 0.06 | <0,00001 |
| HSPB2 | 2247.7 | 37.8 | 109.3 | 12.0 | 119.1 | 9.2 | 114.2 | 11.2 | -4.30 | 0.05 | <0,00001 |
| HSPB3 | 8217.4 | 411.3 | 71.6 | 12.5 | 609.7 | 66.0 | 340.7 | 291.0 | -3.74 | 0.07 | <0,00001 |
| HSPB7 | 704.5 | 19.7 | 113.2 | 19.6 | 64.3 | 3.9 | 88.7 | 29.2 | -2.92 | 0.13 | <0,00001 |
| HSPH1 | 25300.5 | 1538.7 | 15438.6 | 909.2 | 8432.5 | 385.5 | 11935.5 | 3800.3 | -1.05 | 0.48 | 0.00003 |
| HTATSF1P2 | 35.2 | 2.6 | 701.6 | 30.6 | 36.2 | 0.3 | 368.9 | 356.2 | 2.31 | 4.96 | 0.00079 |
| HYLS1 | 553.7 | 15.6 | 252.0 | 8.4 | 224.8 | 20.8 | 238.4 | 20.7 | -1.21 | 0.43 | <0,00001 |
| ICAM3 | 446.0 | 12.3 | 1350.1 | 64.2 | 1042.1 | 57.0 | 1196.1 | 174.0 | 1.41 | 2.67 | <0,00001 |
| ICE1 | 1542.4 | 72.2 | 713.6 | 18.8 | 753.7 | 16.4 | 733.7 | 27.0 | -1.07 | 0.48 | <0,00001 |
| IFI30 | 4464.6 | 333.1 | 555.9 | 22.4 | 1958.6 | 45.3 | 1257.3 | 750.5 | -1.66 | 0.32 | 0.00015 |
| IFI44 | 107.3 | 14.5 | 132.4 | 6.1 | 854.3 | 32.9 | 493.4 | 386.5 | 1.82 | 3.53 | 0.00144 |
| IFNE | 58.8 | 4.8 | 518.3 | 74.2 | 193.9 | 10.3 | 356.1 | 180.2 | 2.43 | 5.38 | <0,00001 |
| IFT46 | 373.8 | 34.2 | 1501.9 | 28.3 | 1410.4 | 46.0 | 1456.2 | 60.3 | 1.96 | 3.89 | <0,00001 |
| IGFALS | 421.0 | 64.9 | 95.7 | 8.0 | 71.3 | 1.3 | 83.5 | 14.1 | -2.31 | 0.20 | <0,00001 |
| IGFBP2 | 2834.9 | 325.2 | 1592.7 | 180.3 | 945.3 | 284.7 | 1269.0 | 410.4 | -1.12 | 0.46 | 0.00007 |
| IGFBP4 | 362.5 | 39.5 | 41.5 | 0.5 | 36.0 | 5.0 | 38.7 | 4.4 | -3.22 | 0.11 | <0,00001 |
| IGFBP6 | 202.2 | 12.3 | 1432.1 | 222.4 | 607.2 | 37.5 | 1019.6 | 465.0 | 2.21 | 4.61 | <0,00001 |
| IGFLR1 | 107.9 | 9.3 | 441.6 | 14.3 | 288.9 | 22.0 | 365.2 | 83.4 | 1.73 | 3.32 | <0,00001 |
| IGIP | 250.2 | 17.2 | 611.7 | 34.8 | 733.2 | 31.5 | 672.5 | 71.8 | 1.42 | 2.68 | <0,00001 |
| IGSF21 | 112.6 | 7.2 | 37.3 | 2.4 | 63.4 | 5.2 | 50.4 | 14.4 | -1.15 | 0.45 | <0,00001 |
| IL12A | 59.3 | 3.5 | 230.9 | 31.3 | 483.6 | 35.3 | 357.3 | 138.5 | 2.48 | 5.58 | <0,00001 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| IL17B | 82.2 | 4.5 | 34.7 | 1.7 | 40.2 | 2.2 | 37.4 | 3.5 | -1.13 | 0.46 | <0,00001 |
| IL20RB | 61.2 | 5.2 | 142.7 | 3.6 | 156.8 | 19.9 | 149.8 | 15.3 | 1.29 | 2.45 | <0,00001 |
| IL27 | 193.9 | 19.6 | 1445.5 | 156.4 | 831.8 | 109.3 | 1138.7 | 351.0 | 2.48 | 5.59 | <0,00001 |
| IL27RA | 135.9 | 2.1 | 341.1 | 20.4 | 475.3 | 25.9 | 408.2 | 74.9 | 1.57 | 2.96 | <0,00001 |
| IL32 | 501.9 | 42.9 | 174.6 | 19.4 | 51.9 | 2.8 | 113.3 | 66.8 | -1.96 | 0.26 | <0,00001 |
| IL33 | 1108.2 | 52.1 | 184.9 | 42.6 | 363.8 | 19.9 | 274.3 | 100.4 | -1.94 | 0.26 | <0,00001 |
| IL6 | 76.7 | 4.5 | 736.0 | 74.2 | 204.9 | 12.9 | 470.4 | 288.1 | 2.35 | 5.10 | <0,00001 |
| IL6R | 35.5 | 2.2 | 83.9 | 11.3 | 62.8 | 6.1 | 73.3 | 14.1 | 1.04 | 2.06 | <0,00001 |
| IL7R | 74.6 | 5.9 | 147.5 | 41.7 | 292.2 | 36.1 | 219.8 | 85.4 | 1.49 | 2.81 | <0,00001 |
| INHBA | 7210.6 | 333.6 | 52161.8 | 2327.5 | 19472.8 | 1104.2 | 35817.3 | 17554.2 | 2.16 | 4.48 | <0,00001 |
| INHBB | 5887.2 | 276.5 | 89.3 | 2.5 | 48.4 | 3.7 | 68.9 | 22.0 | -6.27 | 0.01 | <0,00001 |
| INO80C | 2451.6 | 112.9 | 736.5 | 23.6 | 650.0 | 18.0 | 693.3 | 50.1 | -1.82 | 0.28 | <0,00001 |
| INPP5D | 6186.4 | 239.7 | 361.4 | 26.2 | 195.5 | 5.6 | 278.4 | 90.4 | -4.35 | 0.05 | <0,00001 |
| IP6K3 | 1041.2 | 33.3 | 38.1 | 3.8 | 43.6 | 2.9 | 40.8 | 4.3 | -4.67 | 0.04 | <0,00001 |
| IPP | 343.6 | 19.8 | 1141.5 | 40.0 | 746.7 | 45.6 | 944.1 | 214.7 | 1.44 | 2.71 | <0,00001 |
| IQCB1 | 1403.5 | 63.7 | 689.2 | 32.0 | 570.4 | 62.1 | 629.8 | 78.3 | -1.15 | 0.45 | <0,00001 |
| IQCD | 1369.8 | 38.9 | 552.1 | 57.5 | 385.3 | 11.8 | 468.7 | 97.1 | -1.53 | 0.35 | <0,00001 |
| IQGAP2 | 245.5 | 29.1 | 39.5 | 3.2 | 38.0 | 3.3 | 38.7 | 3.1 | -2.65 | 0.16 | <0,00001 |
| IRF6 | 216.7 | 11.4 | 35.5 | 2.6 | 37.1 | 1.3 | 36.3 | 2.1 | -2.58 | 0.17 | <0,00001 |
| ISLR | 80.8 | 6.0 | 294.2 | 49.0 | 924.3 | 82.4 | 609.3 | 342.6 | 2.66 | 6.32 | <0,00001 |
| ISYNA1 | 7431.2 | 419.5 | 1028.5 | 60.1 | 1860.0 | 118.6 | 1444.2 | 452.9 | -2.30 | 0.20 | <0,00001 |
| ITGA4 | 47.8 | 5.6 | 118.3 | 21.6 | 419.3 | 14.8 | 268.8 | 161.8 | 2.24 | 4.72 | <0,00001 |
| ITGA6 | 476.2 | 28.3 | 3945.4 | 67.4 | 730.6 | 60.3 | 2338.0 | 1719.4 | 1.95 | 3.87 | 0.00025 |
| ITGA7 | 29820.7 | 2166.3 | 73760.2 | 3579.6 | 52832.7 | 1141.9 | 63296.5 | 11453.4 | 1.08 | 2.11 | <0,00001 |
| ITGB5 | 11848.5 | 748.1 | 32062.6 | 2509.0 | 29601.7 | 1905.8 | 30832.1 | 2446.4 | 1.38 | 2.59 | <0,00001 |
| ITLN1 | 174.7 | 1.7 | 41.4 | 3.3 | 39.1 | 3.1 | 40.2 | 3.2 | -2.12 | 0.23 | <0,00001 |
| ITLN2 | 77.8 | 7.5 | 38.0 | 1.0 | 38.2 | 2.0 | 38.1 | 1.5 | -1.03 | 0.49 | <0,00001 |
| ITPKA | 52.2 | 4.0 | 176.7 | 3.7 | 99.0 | 2.2 | 137.8 | 41.6 | 1.37 | 2.59 | <0,00001 |
| JAG1 | 5439.5 | 301.9 | 548.1 | 70.9 | 2927.8 | 158.8 | 1738.0 | 1277.1 | -1.42 | 0.37 | 0.00935 |
| JAKMIP1 | 190.6 | 18.1 | 49.6 | 6.7 | 97.5 | 11.3 | 73.6 | 27.0 | -1.33 | 0.40 | <0,00001 |
| JAKMIP2 | 68.4 | 2.4 | 32.3 | 2.3 | 30.3 | 1.9 | 31.3 | 2.2 | -1.13 | 0.46 | <0,00001 |
| KANK4 | 35.5 | 1.3 | 60.5 | 4.9 | 963.9 | 82.8 | 512.2 | 485.9 | 2.70 | 6.51 | 0.00005 |
| KANSL1-AS1 | 1330.1 | 64.3 | 541.5 | 35.9 | 174.0 | 7.9 | 357.7 | 197.9 | -1.74 | 0.30 | 0.00002 |
| KAZALD1 | 157.2 | 5.8 | 44.1 | 4.8 | 107.6 | 9.9 | 75.9 | 34.7 | -1.00 | 0.50 | 0.00475 |
| KCNC3 | 343.9 | 18.0 | 136.4 | 6.3 | 194.6 | 10.9 | 165.5 | 32.2 | -1.04 | 0.48 | <0,00001 |
| KCNJ3 | 209.3 | 12.3 | 33.6 | 2.1 | 34.9 | 2.8 | 34.2 | 2.4 | -2.61 | 0.16 | <0,00001 |
| KCNN4 | 127.9 | 5.3 | 2726.3 | 188.3 | 2916.6 | 195.6 | 2821.5 | 204.8 | 4.45 | 21.90 | <0,00001 |
| KCNQ1 | 151.9 | 12.2 | 92.3 | 9.6 | 38.5 | 2.3 | 65.4 | 29.5 | -1.15 | 0.45 | 0.00092 |
| KCTD12 | 60.7 | 3.6 | 87.8 | 4.7 | 369.8 | 35.0 | 228.8 | 152.5 | 1.68 | 3.20 | 0.00068 |
| KCTD4 | 41.6 | 3.9 | 2026.4 | 176.1 | 869.7 | 3.9 | 1448.1 | 628.9 | 4.84 | 28.58 | <0,00001 |
| KDM5D | 997.2 | 52.0 | 71.2 | 4.5 | 60.0 | 7.3 | 65.6 | 8.2 | -3.92 | 0.07 | <0,00001 |
| KHDRBS2 | 166.5 | 11.4 | 29.9 | 2.1 | 37.1 | 1.5 | 33.5 | 4.2 | -2.30 | 0.20 | <0,00001 |
| KHDRBS3 | 784.7 | 22.0 | 919.2 | 82.4 | 3416.6 | 119.7 | 2167.9 | 1338.3 | 1.32 | 2.49 | 0.00462 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| KHK | 240.0 | 22.8 | 139.5 | 7.8 | 68.4 | 5.5 | 103.9 | 38.5 | -1.16 | 0.45 | 0.00006 |
| KIAA1147 | 653.4 | 29.7 | 336.4 | 18.9 | 274.1 | 12.3 | 305.3 | 36.5 | -1.09 | 0.47 | <0,00001 |
| KIAA1324 | 208.2 | 8.0 | 75.8 | 7.7 | 94.7 | 7.7 | 85.2 | 12.4 | -1.29 | 0.41 | <0,00001 |
| KIAA1462 | 52.2 | 1.3 | 99.9 | 2.6 | 129.6 | 10.1 | 114.7 | 17.2 | 1.12 | 2.18 | <0,00001 |
| KIAA1652 | 139.0 | 41.0 | 423.0 | 78.7 | 217.9 | 69.3 | 320.4 | 129.3 | 1.14 | 2.21 | 0.00114 |
| KIAA1683 | 189.1 | 22.0 | 809.8 | 45.2 | 483.7 | 34.4 | 646.8 | 178.2 | 1.73 | 3.33 | <0,00001 |
| KIF18A | 163.9 | 7.2 | 64.1 | 1.0 | 78.6 | 5.2 | 71.4 | 8.5 | -1.20 | 0.44 | <0,00001 |
| KIF26A | 179.5 | 10.4 | 46.3 | 2.5 | 55.4 | 16.6 | 50.9 | 12.0 | -1.81 | 0.29 | <0,00001 |
| KIF5C | 3204.3 | 202.9 | 348.4 | 14.5 | 172.3 | 22.2 | 260.3 | 95.8 | -3.49 | 0.09 | <0,00001 |
| KIFAP3 | 31620.8 | 1785.4 | 4695.4 | 219.0 | 11498.4 | 526.8 | 8096.9 | 3655.4 | -1.86 | 0.28 | <0,00001 |
| KIT | 188.8 | 8.7 | 33.7 | 0.5 | 32.9 | 0.6 | 33.3 | 0.7 | -2.49 | 0.18 | <0,00001 |
| KL | 174.4 | 22.2 | 62.7 | 2.3 | 87.0 | 6.8 | 74.9 | 13.8 | -1.21 | 0.43 | <0,00001 |
| KLF12 | 638.1 | 17.9 | 2150.5 | 235.0 | 1097.6 | 25.5 | 1624.0 | 583.7 | 1.30 | 2.47 | <0,00001 |
| KLHDC8A | 169.8 | 4.9 | 54.0 | 3.6 | 61.2 | 1.0 | 57.6 | 4.6 | -1.56 | 0.34 | <0,00001 |
| KLHL30 | 89.4 | 6.9 | 39.1 | 0.7 | 38.7 | 3.8 | 38.9 | 2.5 | -1.20 | 0.43 | <0,00001 |
| KLK6 | 295.6 | 22.6 | 42.2 | 3.7 | 38.8 | 3.1 | 40.5 | 3.6 | -2.86 | 0.14 | <0,00001 |
| KLK7 | 95.9 | 7.9 | 33.0 | 1.4 | 31.2 | 2.2 | 32.1 | 2.0 | -1.57 | 0.34 | <0,00001 |
| KREMEN2 | 122.4 | 9.4 | 150.9 | 18.5 | 767.4 | 58.6 | 459.1 | 332.0 | 1.63 | 3.10 | 0.00221 |
| KRT17 | 5797.5 | 419.6 | 142.6 | 9.5 | 335.5 | 36.8 | 239.1 | 106.1 | -4.38 | 0.05 | <0,00001 |
| KRT23 | 340.8 | 18.3 | 201.6 | 38.2 | 77.1 | 3.0 | 139.4 | 71.2 | -1.21 | 0.43 | 0.00135 |
| KRT32 | 92.1 | 2.2 | 259.6 | 26.6 | 263.0 | 9.1 | 261.3 | 18.5 | 1.50 | 2.84 | <0,00001 |
| KRT33B | 47.2 | 4.2 | 371.9 | 79.9 | 55.9 | 4.2 | 213.9 | 176.8 | 1.79 | 3.45 | 0.00236 |
| KRT34 | 39.6 | 4.4 | 2280.0 | 366.9 | 45.0 | 6.7 | 1162.5 | 1218.6 | 2.43 | 5.39 | 0.00114 |
| KRT81 | 861.1 | 31.2 | 1849.9 | 129.0 | 1779.7 | 64.9 | 1814.8 | 101.7 | 1.07 | 2.11 | <0,00001 |
| KRT83 | 38.6 | 0.7 | 104.9 | 12.3 | 315.2 | 15.0 | 210.1 | 113.1 | 2.25 | 4.77 | <0,00001 |
| KRT86 | 214.5 | 8.7 | 1782.0 | 308.6 | 8972.2 | 467.2 | 5377.1 | 3860.8 | 3.95 | 15.48 | <0,00001 |
| KRTAP1-5 | 29.0 | 1.5 | 299.6 | 67.1 | 285.8 | 41.2 | 292.7 | 52.0 | 3.30 | 9.88 | <0,00001 |
| KRTAP5-8 | 374.9 | 23.7 | 1144.2 | 77.2 | 847.8 | 97.6 | 996.0 | 178.2 | 1.40 | 2.63 | <0,00001 |
| KRTAP7-1 | 76.3 | 2.1 | 36.2 | 0.7 | 32.7 | 2.2 | 34.4 | 2.4 | -1.16 | 0.45 | <0,00001 |
| KRTDAP | 109.0 | 3.1 | 39.3 | 2.7 | 34.2 | 0.8 | 36.7 | 3.3 | -1.57 | 0.34 | <0,00001 |
| LAMA2 | 65.6 | 5.2 | 414.4 | 37.7 | 161.3 | 36.4 | 287.8 | 139.5 | 1.99 | 3.98 | <0,00001 |
| LAMA5 | 4531.9 | 285.2 | 1917.3 | 132.1 | 2040.1 | 183.7 | 1978.7 | 162.0 | -1.19 | 0.44 | <0,00001 |
| LAMB3 | 288.4 | 25.8 | 1628.5 | 236.9 | 954.1 | 52.1 | 1291.3 | 393.9 | 2.11 | 4.31 | <0,00001 |
| LAMP5 | 36.6 | 4.1 | 41.2 | 3.5 | 527.3 | 64.8 | 284.2 | 263.3 | 2.17 | 4.49 | 0.00097 |
| LARP6 | 15385.3 | 792.4 | 73860.7 | 2572.8 | 17061.1 | 885.9 | 45460.9 | 30412.9 | 1.38 | 2.60 | 0.00608 |
| LDB3 | 696.6 | 21.2 | 61.6 | 2.0 | 353.4 | 17.0 | 207.5 | 156.4 | -1.49 | 0.35 | 0.00729 |
| LDHB | 124290.8 | 3328.1 | 60918.6 | 2169.8 | 56157.7 | 1083.9 | 58538.2 | 2999.5 | -1.08 | 0.47 | <0,00001 |
| LDHD | 138.7 | 6.6 | 219.4 | 5.7 | 619.3 | 36.0 | 419.4 | 215.1 | 1.48 | 2.79 | 0.00013 |
| LEFTY1 | 37.0 | 0.7 | 40.0 | 1.8 | 1087.3 | 74.7 | 563.7 | 562.0 | 2.51 | 5.69 | 0.00036 |
| LETM2 | 521.1 | 18.2 | 78.9 | 5.5 | 92.3 | 9.1 | 85.6 | 10.0 | -2.60 | 0.16 | <0,00001 |
| LGALSL | 1214.3 | 98.2 | 423.8 | 6.0 | 707.3 | 59.9 | 565.6 | 156.5 | -1.08 | 0.47 | <0,00001 |
| LGI3 | 649.6 | 21.8 | 135.9 | 10.1 | 172.9 | 14.3 | 154.4 | 22.9 | -2.07 | 0.24 | <0,00001 |
| LHX2 | 24081.8 | 191.3 | 8065.0 | 640.5 | 12712.2 | 404.6 | 10388.6 | 2533.0 | -1.19 | 0.44 | <0,00001 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| LIMS1 | 466.7 | 57.9 | 1256.6 | 38.4 | 981.2 | 204.7 | 1118.9 | 200.7 | 1.25 | 2.37 | <0,00001 |
| LINC00312 | 131.0 | 15.0 | 295.2 | 57.0 | 596.9 | 49.2 | 446.1 | 168.7 | 1.69 | 3.23 | <0,00001 |
| LINC00518 | 78.0 | 2.5 | 36.1 | 0.9 | 33.4 | 2.6 | 34.8 | 2.3 | -1.16 | 0.45 | <0,00001 |
| LINC00842 | 31.9 | 4.7 | 117.0 | 8.9 | 67.3 | 65.7 | 92.1 | 50.9 | 1.39 | 2.63 | 0.00271 |
| LINC00886 | 55.7 | 1.8 | 437.3 | 18.5 | 217.1 | 11.0 | 327.2 | 118.5 | 2.46 | 5.52 | <0,00001 |
| LINC01106 | 7494.7 | 479.9 | 2300.8 | 434.2 | 1923.2 | 148.7 | 2112.0 | 361.9 | -1.81 | 0.29 | <0,00001 |
| LINC01133 | 36.6 | 4.5 | 557.1 | 35.3 | 43.4 | 2.0 | 300.3 | 275.5 | 2.23 | 4.69 | 0.00069 |
| LINC01296 | 75.8 | 1.5 | 2322.0 | 78.1 | 1068.4 | 55.3 | 1695.2 | 673.0 | 4.28 | 19.39 | <0,00001 |
| LIPE | 1518.7 | 138.4 | 1005.4 | 94.6 | 398.5 | 4.7 | 701.9 | 330.3 | -1.05 | 0.48 | 0.00412 |
| LIPH | 33.3 | 2.6 | 117.0 | 30.3 | 113.9 | 11.2 | 115.4 | 21.2 | 1.79 | 3.45 | <0,00001 |
| LITAF | 1290.2 | 155.3 | 509.4 | 25.2 | 589.6 | 70.0 | 549.5 | 64.9 | -1.23 | 0.43 | <0,00001 |
| LMCD1 | 16823.3 | 673.9 | 33562.6 | 4499.9 | 83047.6 | 2405.6 | 58305.1 | 26660.9 | 1.69 | 3.23 | <0,00001 |
| LMNB1 | 171.0 | 12.5 | 77.7 | 3.4 | 63.8 | 3.5 | 70.8 | 8.1 | -1.26 | 0.42 | <0,00001 |
| LMO1 | 846.7 | 78.0 | 79.4 | 5.1 | 337.8 | 20.9 | 208.6 | 138.9 | -1.80 | 0.29 | 0.00020 |
| LOC1001312 | 1250.9 | 275.2 | 3045.4 | 102.0 | 2506.3 | 565.9 | 2775.9 | 474.1 | 1.13 | 2.19 | <0,00001 |
| LOC1001315 | 109.3 | 12.8 | 184.8 | 24.4 | 323.0 | 83.5 | 253.9 | 93.3 | 1.17 | 2.26 | 0.00002 |
| LOC1002873 | 233.6 | 31.4 | 144.1 | 9.0 | 70.2 | 0.9 | 107.2 | 39.9 | -1.08 | 0.47 | 0.00024 |
| LOC1010600 | 107.8 | 4.5 | 235.5 | 12.1 | 699.3 | 35.5 | 467.4 | 249.1 | 1.95 | 3.87 | <0,00001 |
| LOC1019269 | 39.0 | 3.3 | 53.4 | 1.6 | 145.2 | 4.9 | 99.3 | 49.2 | 1.27 | 2.41 | 0.00145 |
| LOC1053743 | 124.7 | 8.1 | 464.5 | 22.6 | 294.5 | 12.4 | 379.5 | 92.4 | 1.58 | 2.98 | <0,00001 |
| LOC1053793 | 537.1 | 26.5 | 34.7 | 2.3 | 33.6 | 1.0 | 34.1 | 1.7 | -3.97 | 0.06 | <0,00001 |
| LOC283454 | 1828.6 | 69.7 | 77.3 | 6.0 | 53.7 | 1.7 | 65.5 | 13.3 | -4.78 | 0.04 | <0,00001 |
| LOC284344 | 4665.3 | 366.0 | 66.1 | 9.4 | 820.4 | 17.3 | 443.3 | 403.4 | -2.64 | 0.16 | 0.00003 |
| LOC286254 | 2891.4 | 542.8 | 971.4 | 79.1 | 1295.3 | 288.0 | 1133.4 | 261.2 | -1.33 | 0.40 | <0,00001 |
| LOC338620 | 399.1 | 26.2 | 5387.8 | 692.0 | 3087.5 | 164.3 | 4237.6 | 1314.8 | 3.32 | 9.97 | <0,00001 |
| LOC388242 | 646.1 | 44.0 | 239.3 | 5.8 | 250.8 | 17.2 | 245.0 | 13.4 | -1.40 | 0.38 | <0,00001 |
| LOC643355 | 135.2 | 4.8 | 54.1 | 1.7 | 34.4 | 1.0 | 44.2 | 10.6 | -1.60 | 0.33 | <0,00001 |
| LOC644189 | 81.2 | 2.4 | 137.7 | 7.6 | 202.3 | 7.8 | 170.0 | 35.2 | 1.06 | 2.08 | <0,00001 |
| LOC644450 | 53.1 | 5.5 | 236.5 | 20.6 | 234.0 | 10.5 | 235.2 | 15.2 | 2.14 | 4.41 | <0,00001 |
| LOC727916 | 317.1 | 17.7 | 136.2 | 5.1 | 139.1 | 4.4 | 137.7 | 4.7 | -1.20 | 0.43 | <0,00001 |
| LOC730102 | 366.7 | 29.8 | 845.6 | 45.1 | 680.4 | 42.9 | 763.0 | 97.2 | 1.05 | 2.07 | <0,00001 |
| LPPR3 | 1981.8 | 79.1 | 1079.1 | 111.5 | 419.7 | 44.3 | 749.4 | 361.1 | -1.32 | 0.40 | 0.00030 |
| LPPR4 | 31.5 | 2.0 | 34.2 | 1.4 | 287.2 | 32.9 | 160.7 | 136.9 | 1.86 | 3.62 | 0.00269 |
| LRFN4 | 5851.8 | 539.6 | 2234.1 | 155.0 | 2250.2 | 65.7 | 2242.1 | 110.6 | -1.38 | 0.38 | <0,00001 |
| LRIF1 | 147.4 | 4.2 | 343.6 | 18.4 | 254.8 | 24.3 | 299.2 | 51.5 | 1.01 | 2.02 | <0,00001 |
| LRP1B | 254.6 | 13.2 | 95.2 | 5.1 | 113.5 | 18.1 | 104.4 | 15.7 | -1.28 | 0.41 | <0,00001 |
| LRRC16A | 95.0 | 5.4 | 178.3 | 16.7 | 211.3 | 14.9 | 194.8 | 22.9 | 1.04 | 2.05 | <0,00001 |
| LRRC17 | 8823.2 | 362.7 | 95.7 | 7.7 | 116.4 | 10.5 | 106.0 | 13.9 | -6.36 | 0.01 | <0,00001 |
| LRRC37A3 | 52.3 | 2.1 | 128.8 | 6.3 | 158.0 | 10.7 | 143.4 | 17.6 | 1.44 | 2.72 | <0,00001 |
| LRRC4C | 88.5 | 5.8 | 287.1 | 39.0 | 386.8 | 12.1 | 336.9 | 59.6 | 1.91 | 3.75 | <0,00001 |
| LRRC59 | 2544.6 | 62.5 | 5673.9 | 305.9 | 4689.6 | 178.2 | 5181.7 | 574.9 | 1.02 | 2.03 | <0,00001 |
| LSR | 756.4 | 49.9 | 293.3 | 11.2 | 227.2 | 13.9 | 260.2 | 37.2 | -1.53 | 0.35 | <0,00001 |
| LTBR | 1134.7 | 66.0 | 1783.2 | 37.2 | 3092.1 | 83.7 | 2437.6 | 702.2 | 1.08 | 2.11 | <0,00001 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| LUZP2 | 1672.3 | 96.2 | 174.7 | 24.7 | 532.7 | 29.7 | 353.7 | 193.0 | -2.07 | 0.24 | <0,00001 |
| LY6D | 175.8 | 2.3 | 67.8 | 1.5 | 64.7 | 4.8 | 66.2 | 3.7 | -1.41 | 0.38 | <0,00001 |
| LYPD2 | 76.4 | 3.7 | 38.1 | 1.8 | 37.8 | 1.8 | 37.9 | 1.7 | -1.01 | 0.50 | <0,00001 |
| LZTS3 | 169.9 | 4.1 | 584.3 | 21.0 | 261.3 | 17.1 | 422.8 | 173.6 | 1.26 | 2.39 | 0.00009 |
| MAB21L1 | 715.2 | 27.4 | 465.9 | 24.4 | 214.9 | 16.8 | 340.4 | 135.6 | -1.03 | 0.49 | 0.00102 |
| MAGEF1 | 7329.4 | 242.6 | 3221.9 | 46.8 | 3201.4 | 168.2 | 3211.6 | 114.8 | -1.19 | 0.44 | <0,00001 |
| MAGI2 | 251.0 | 10.9 | 107.2 | 7.8 | 108.3 | 8.3 | 107.7 | 7.5 | -1.22 | 0.43 | <0,00001 |
| MAL2 | 6625.2 | 439.8 | 167.0 | 15.7 | 35.6 | 4.0 | 101.3 | 71.0 | -5.31 | 0.03 | <0,00001 |
| MAMLD1 | 146.1 | 11.1 | 1985.3 | 280.1 | 4692.9 | 47.9 | 3339.1 | 1459.2 | 4.27 | 19.23 | <0,00001 |
| MAP3K1 | 91.7 | 8.0 | 44.1 | 0.6 | 43.5 | 3.4 | 43.8 | 2.3 | -1.07 | 0.48 | <0,00001 |
| MAP3K4 | 1049.7 | 70.1 | 1545.1 | 59.4 | 2910.9 | 166.3 | 2228.0 | 739.2 | 1.05 | 2.07 | 0.00005 |
| MAP3K7CL | 46.7 | 2.5 | 1180.6 | 21.2 | 315.6 | 26.4 | 748.1 | 462.9 | 3.56 | 11.76 | <0,00001 |
| MARCKSL1 | 9415.8 | 398.3 | 4176.5 | 148.2 | 3704.8 | 224.0 | 3940.7 | 307.4 | -1.25 | 0.42 | <0,00001 |
| MARVELD1 | 24445.2 | 1355.5 | 63384.7 | 3175.8 | 80589.3 | 2776.8 | 71987.0 | 9601.9 | 1.55 | 2.93 | <0,00001 |
| MAST2 | 705.1 | 46.3 | 1327.0 | 59.8 | 1650.8 | 55.7 | 1488.9 | 181.1 | 1.07 | 2.10 | <0,00001 |
| MDFI | 1359.4 | 93.5 | 93.7 | 6.8 | 113.7 | 3.2 | 103.7 | 11.8 | -3.70 | 0.08 | <0,00001 |
| MEIOB | 132.5 | 10.9 | 47.1 | 2.8 | 58.5 | 2.5 | 52.8 | 6.6 | -1.32 | 0.40 | <0,00001 |
| METRNL | 24394.1 | 932.9 | 6351.2 | 323.4 | 11372.5 | 544.2 | 8861.9 | 2715.8 | -1.42 | 0.37 | <0,00001 |
| METTL10 | 203.8 | 8.2 | 635.7 | 24.3 | 788.4 | 31.8 | 712.0 | 85.7 | 1.79 | 3.47 | <0,00001 |
| METTL7B | 60.0 | 2.7 | 78.6 | 4.3 | 321.9 | 15.7 | 200.3 | 130.5 | 1.54 | 2.92 | 0.00162 |
| MEX3A | 6266.0 | 281.2 | 2356.5 | 108.6 | 1597.7 | 96.7 | 1977.1 | 416.6 | -1.64 | 0.32 | <0,00001 |
| MFAP4 | 25796.6 | 1045.6 | 24866.8 | 5797.7 | 186410.8 | 3608.1 | 105638.8 | 86464.5 | 1.64 | 3.12 | 0.00634 |
| MFSD11 | 684.6 | 33.0 | 1057.4 | 27.3 | 1839.1 | 69.8 | 1448.2 | 420.7 | 1.05 | 2.08 | <0,00001 |
| MFSD7 | 274.1 | 20.0 | 947.5 | 21.9 | 1947.6 | 142.7 | 1447.6 | 542.8 | 2.31 | 4.95 | <0,00001 |
| MGARP | 3519.1 | 165.3 | 622.9 | 39.2 | 183.7 | 5.8 | 403.3 | 236.2 | -2.85 | 0.14 | <0,00001 |
| MGAT4A | 175.3 | 5.1 | 80.2 | 4.5 | 79.0 | 1.0 | 79.6 | 3.1 | -1.14 | 0.45 | <0,00001 |
| MGC24103 | 50.8 | 2.0 | 175.0 | 20.5 | 278.5 | 7.7 | 226.7 | 57.1 | 2.11 | 4.32 | <0,00001 |
| MGLL | 692.1 | 30.4 | 3212.6 | 101.0 | 3337.9 | 130.4 | 3275.2 | 127.0 | 2.24 | 4.73 | <0,00001 |
| MGP | 2879.1 | 414.5 | 49.5 | 5.4 | 667.3 | 89.8 | 358.4 | 335.4 | -2.30 | 0.20 | 0.00043 |
| MIR31HG | 122.5 | 2.5 | 1049.3 | 105.6 | 769.5 | 31.4 | 909.4 | 166.0 | 2.86 | 7.26 | <0,00001 |
| MIR7515HG | 81.4 | 4.0 | 35.2 | 2.2 | 33.6 | 1.2 | 34.4 | 1.9 | -1.24 | 0.42 | <0,00001 |
| MISP | 116.9 | 7.6 | 51.7 | 5.8 | 45.2 | 0.8 | 48.4 | 5.2 | -1.27 | 0.41 | <0,00001 |
| MLANA | 286.9 | 16.6 | 40.5 | 2.0 | 36.5 | 1.2 | 38.5 | 2.7 | -2.90 | 0.13 | <0,00001 |
| MLIP | 137.9 | 10.6 | 37.5 | 2.4 | 39.9 | 1.2 | 38.7 | 2.2 | -1.82 | 0.28 | <0,00001 |
| MMP11 | 4251.6 | 143.6 | 978.8 | 36.8 | 933.3 | 44.6 | 956.0 | 45.0 | -2.15 | 0.23 | <0,00001 |
| MMP24 | 42.1 | 2.4 | 202.1 | 9.3 | 67.9 | 3.6 | 135.0 | 72.0 | 1.55 | 2.93 | 0.00021 |
| MMP3 | 31.5 | 1.5 | 120.7 | 17.5 | 37.6 | 2.5 | 79.1 | 45.9 | 1.20 | 2.30 | 0.00863 |
| MMP7 | 40.0 | 2.6 | 86.6 | 14.7 | 143.1 | 9.1 | 114.9 | 32.3 | 1.48 | 2.79 | <0,00001 |
| MOK | 734.6 | 57.7 | 14461.4 | 1163.4 | 1367.9 | 53.8 | 7914.6 | 7040.2 | 2.61 | 6.08 | 0.00003 |
| MORC4 | 2011.1 | 72.3 | 3600.5 | 121.6 | 6896.4 | 226.5 | 5248.5 | 1769.7 | 1.34 | 2.53 | <0,00001 |
| MOXD1 | 443.9 | 17.9 | 755.1 | 63.1 | 1335.5 | 54.1 | 1045.3 | 315.0 | 1.20 | 2.30 | <0,00001 |
| MPP2 | 226.6 | 11.1 | 647.2 | 13.5 | 338.2 | 28.6 | 492.7 | 166.5 | 1.08 | 2.12 | 0.00007 |
| MPP4 | 35.0 | 4.5 | 155.5 | 9.7 | 132.9 | 15.8 | 144.2 | 17.1 | 2.03 | 4.08 | <0,00001 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MRC2 | 354.4 | 35.6 | 489.6 | 64.4 | 1584.7 | 214.9 | 1037.1 | 603.5 | 1.41 | 2.66 | 0.00112 |
| MSX2P1 | 311.2 | 22.6 | 132.9 | 2.1 | 173.8 | 10.5 | 153.4 | 23.0 | -1.02 | 0.49 | <0,00001 |
| MT1A | 2836.0 | 272.4 | 14758.7 | 1418.5 | 3169.4 | 500.5 | 8964.0 | 6272.5 | 1.44 | 2.72 | 0.00571 |
| MT1B | 300.1 | 24.4 | 15480.3 | 1747.9 | 510.3 | 21.8 | 7995.3 | 8083.2 | 2.90 | 7.47 | 0.00003 |
| MT1F | 32.3 | 1.4 | 171.2 | 21.0 | 35.2 | 0.7 | 103.2 | 74.0 | 1.45 | 2.72 | 0.00807 |
| MT1H | 149.0 | 1.6 | 16873.5 | 1910.6 | 334.0 | 23.5 | 8603.7 | 8928.8 | 2.74 | 6.69 | 0.00020 |
| MT1HL1 | 253.0 | 10.1 | 9323.9 | 913.5 | 384.1 | 16.0 | 4854.0 | 4815.8 | 2.76 | 6.78 | 0.00006 |
| MT1M | 42.0 | 1.2 | 1399.9 | 163.7 | 52.8 | 2.6 | 726.3 | 728.0 | 2.62 | 6.13 | 0.00018 |
| MUM1L1 | 382.3 | 34.0 | 38.4 | 9.0 | 37.5 | 2.2 | 38.0 | 6.1 | -3.32 | 0.10 | <0,00001 |
| MVP | 13779.4 | 309.5 | 40257.9 | 1436.7 | 34741.9 | 602.3 | 37499.9 | 3119.8 | 1.44 | 2.72 | <0,00001 |
| MYL7 | 68.5 | 2.2 | 447.1 | 61.7 | 142.7 | 7.8 | 294.9 | 167.7 | 1.93 | 3.80 | <0,00001 |
| MYLK2 | 66.6 | 3.2 | 144.1 | 11.5 | 218.1 | 14.9 | 181.1 | 41.5 | 1.42 | 2.68 | <0,00001 |
| MYO5C | 1801.5 | 70.9 | 463.0 | 44.0 | 81.7 | 1.4 | 272.4 | 205.9 | -2.33 | 0.20 | 0.00001 |
| MYOC | 92.5 | 6.4 | 40.0 | 5.7 | 34.9 | 1.0 | 37.4 | 4.7 | -1.31 | 0.40 | <0,00001 |
| NALCN | 64.6 | 4.9 | 167.3 | 14.1 | 106.1 | 2.1 | 136.7 | 34.0 | 1.06 | 2.08 | <0,00001 |
| NAT1 | 149.4 | 7.8 | 328.7 | 21.5 | 354.5 | 24.4 | 341.6 | 25.4 | 1.19 | 2.28 | <0,00001 |
| NBEA | 8501.2 | 338.3 | 2611.4 | 66.7 | 1552.5 | 85.3 | 2081.9 | 570.4 | -1.98 | 0.25 | <0,00001 |
| NBL1 | 235.4 | 20.1 | 463.3 | 25.2 | 742.7 | 44.5 | 603.0 | 153.1 | 1.33 | 2.51 | <0,00001 |
| NBPF9 | 370.6 | 78.8 | 923.6 | 105.5 | 661.8 | 132.6 | 792.7 | 178.6 | 1.07 | 2.11 | <0,00001 |
| NCALD | 246.1 | 8.7 | 39.6 | 0.8 | 52.1 | 2.5 | 45.8 | 6.9 | -2.43 | 0.19 | <0,00001 |
| NCEH1 | 863.3 | 93.5 | 2799.2 | 324.9 | 1372.1 | 63.9 | 2085.6 | 793.0 | 1.22 | 2.34 | 0.00003 |
| NDN | 3909.7 | 99.0 | 1703.9 | 124.2 | 1797.3 | 55.7 | 1750.6 | 102.2 | -1.16 | 0.45 | <0,00001 |
| NDUFAF4 | 2086.9 | 72.6 | 975.6 | 27.5 | 817.9 | 58.2 | 896.7 | 94.2 | -1.21 | 0.43 | <0,00001 |
| NEDD4 | 516.3 | 5.3 | 1595.0 | 86.7 | 1654.2 | 30.7 | 1624.6 | 68.0 | 1.65 | 3.14 | <0,00001 |
| NEFH | 969.8 | 92.7 | 2430.6 | 98.1 | 5230.8 | 267.6 | 3830.7 | 1508.4 | 1.90 | 3.72 | <0,00001 |
| NEGR1 | 39.3 | 1.3 | 155.3 | 16.2 | 52.9 | 3.2 | 104.1 | 55.8 | 1.29 | 2.44 | 0.00231 |
| NEK7 | 60.2 | 3.6 | 408.3 | 35.4 | 115.8 | 9.9 | 262.1 | 158.2 | 1.92 | 3.77 | 0.00002 |
| NELL2 | 3877.2 | 243.3 | 64.3 | 3.3 | 39.7 | 3.8 | 52.0 | 13.5 | -6.15 | 0.01 | <0,00001 |
| NES | 64.2 | 1.0 | 2252.1 | 511.9 | 2414.2 | 248.3 | 2333.1 | 382.4 | 5.12 | 34.85 | <0,00001 |
| NEURL1B | 190.1 | 5.4 | 66.9 | 9.8 | 50.9 | 7.3 | 58.9 | 11.7 | -1.68 | 0.31 | <0,00001 |
| NFKBIZ | 282.8 | 44.3 | 1056.5 | 106.2 | 1020.9 | 213.1 | 1038.7 | 157.0 | 1.86 | 3.63 | <0,00001 |
| NGF | 393.9 | 22.1 | 79.7 | 5.8 | 149.6 | 7.7 | 114.6 | 37.9 | -1.73 | 0.30 | <0,00001 |
| NHS | 164.2 | 32.9 | 522.2 | 16.1 | 804.3 | 45.0 | 663.2 | 154.0 | 1.97 | 3.93 | <0,00001 |
| NKX3-1 | 287.1 | 15.1 | 7333.2 | 310.4 | 328.7 | 15.7 | 3831.0 | 3749.6 | 2.49 | 5.62 | 0.00030 |
| NLGN1 | 76.3 | 5.7 | 40.4 | 1.4 | 31.1 | 2.1 | 35.8 | 5.2 | -1.08 | 0.47 | <0,00001 |
| NLRP2 | 548.0 | 28.1 | 39.2 | 2.2 | 34.6 | 1.4 | 36.9 | 3.0 | -3.89 | 0.07 | <0,00001 |
| NLRP2P | 103.5 | 2.7 | 32.9 | 1.5 | 32.9 | 1.2 | 32.9 | 1.3 | -1.65 | 0.32 | <0,00001 |
| NMU | 172.4 | 11.7 | 42.3 | 3.3 | 61.7 | 5.0 | 52.0 | 11.1 | -1.72 | 0.30 | <0,00001 |
| NNAT | 562.7 | 29.2 | 41.3 | 1.7 | 42.7 | 3.1 | 42.0 | 2.4 | -3.74 | 0.07 | <0,00001 |
| NNMT | 1550.8 | 116.5 | 13950.5 | 520.3 | 2793.5 | 156.9 | 8372.0 | 5974.2 | 2.09 | 4.26 | 0.00005 |
| NPAS1 | 816.1 | 40.4 | 285.0 | 48.9 | 222.5 | 13.8 | 253.7 | 47.1 | -1.67 | 0.31 | <0,00001 |
| NQO1 | 58.5 | 1.5 | 138.7 | 12.5 | 251.5 | 7.1 | 195.1 | 61.0 | 1.69 | 3.22 | <0,00001 |
| NRBF2 | 494.5 | 18.5 | 672.5 | 14.0 | 1467.6 | 32.7 | 1070.0 | 425.6 | 1.06 | 2.09 | 0.00055 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| NTAN1 | 1594.9 | 56.1 | 2973.5 | 27.0 | 3750.0 | 270.9 | 3361.8 | 451.7 | 1.07 | 2.10 | <0,00001 |
| NTF4 | 182.1 | 12.0 | 34.1 | 1.8 | 82.4 | 1.8 | 58.2 | 25.9 | -1.57 | 0.34 | <0,00001 |
| NTNG1 | 205.5 | 19.8 | 597.8 | 50.9 | 392.5 | 29.1 | 495.2 | 116.3 | 1.25 | 2.37 | <0,00001 |
| NTNG2 | 72.8 | 44.1 | 140.4 | 12.1 | 177.2 | 10.5 | 158.8 | 22.2 | 1.09 | 2.13 | 0.00013 |
| NTPCR | 4250.1 | 144.2 | 1821.9 | 108.0 | 2225.9 | 139.6 | 2023.9 | 244.9 | -1.07 | 0.48 | <0,00001 |
| NUAK1 | 9999.3 | 617.5 | 5366.7 | 224.6 | 2628.6 | 140.7 | 3997.7 | 1473.8 | -1.27 | 0.41 | 0.00001 |
| NUBP1 | 986.9 | 46.4 | 530.6 | 14.7 | 438.6 | 34.9 | 484.6 | 55.0 | -1.02 | 0.49 | <0,00001 |
| NUPR1 | 6581.7 | 574.3 | 7790.1 | 1361.4 | 21042.1 | 550.8 | 14416.1 | 7148.4 | 1.05 | 2.07 | 0.00662 |
| NYNRIN | 345.0 | 11.8 | 72.2 | 4.2 | 84.0 | 15.0 | 78.1 | 12.0 | -2.14 | 0.23 | <0,00001 |
| OCA2 | 518.1 | 21.9 | 34.9 | 2.1 | 31.7 | 3.6 | 33.3 | 3.2 | -3.96 | 0.06 | <0,00001 |
| OGDHL | 3509.1 | 232.4 | 90.3 | 15.5 | 151.6 | 15.5 | 120.9 | 35.8 | -4.76 | 0.04 | <0,00001 |
| OPLAH | 3837.1 | 266.0 | 1384.3 | 107.8 | 549.1 | 44.3 | 966.7 | 453.0 | -1.87 | 0.27 | <0,00001 |
| OPN3 | 723.3 | 34.4 | 405.1 | 33.0 | 156.7 | 5.0 | 280.9 | 134.5 | -1.28 | 0.41 | 0.00042 |
| OR52K3P | 89.5 | 5.8 | 36.9 | 1.3 | 41.8 | 4.2 | 39.3 | 3.9 | -1.18 | 0.44 | <0,00001 |
| OSBPL5 | 2571.9 | 171.6 | 6410.0 | 385.1 | 4656.5 | 246.4 | 5533.3 | 983.9 | 1.09 | 2.14 | <0,00001 |
| OTX2 | 2562.6 | 28.5 | 320.9 | 29.1 | 820.9 | 35.1 | 570.9 | 268.9 | -2.04 | 0.24 | <0,00001 |
| PALM | 35235.8 | 2757.7 | 16547.0 | 953.6 | 15126.5 | 792.8 | 15836.7 | 1111.6 | -1.15 | 0.45 | <0,00001 |
| PAMR1 | 40.3 | 4.7 | 682.8 | 211.7 | 3824.3 | 209.9 | 2253.6 | 1690.5 | 4.77 | 27.22 | <0,00001 |
| PARD6A | 396.7 | 9.8 | 248.4 | 10.4 | 114.2 | 5.2 | 181.3 | 72.1 | -1.08 | 0.47 | 0.00047 |
| PAX6 | 1426.2 | 36.1 | 393.2 | 33.3 | 260.0 | 8.0 | 326.6 | 74.6 | -2.10 | 0.23 | <0,00001 |
| PCDH19 | 41.5 | 2.3 | 442.1 | 56.5 | 86.7 | 4.4 | 264.4 | 193.6 | 2.27 | 4.84 | 0.00002 |
| PCDH20 | 127.6 | 2.7 | 58.6 | 2.3 | 33.2 | 1.6 | 45.9 | 13.7 | -1.45 | 0.37 | <0,00001 |
| PCDH8 | 148.0 | 11.9 | 44.7 | 3.6 | 37.4 | 3.3 | 41.0 | 5.1 | -1.84 | 0.28 | <0,00001 |
| PCDHA1 | 86.8 | 9.0 | 308.6 | 23.7 | 141.5 | 14.1 | 225.1 | 91.1 | 1.31 | 2.48 | 0.00005 |
| PCDHA5 | 94.8 | 6.8 | 310.0 | 17.3 | 138.0 | 8.0 | 224.0 | 92.8 | 1.18 | 2.27 | 0.00034 |
| PCDHB10 | 54.5 | 2.5 | 115.3 | 12.6 | 190.4 | 9.7 | 152.9 | 41.5 | 1.46 | 2.75 | <0,00001 |
| PCDHB11 | 332.5 | 27.4 | 1256.9 | 143.1 | 2232.8 | 199.4 | 1744.8 | 545.8 | 2.32 | 5.00 | <0,00001 |
| PCDHB13 | 312.2 | 24.7 | 828.7 | 86.4 | 497.0 | 15.1 | 662.8 | 186.4 | 1.06 | 2.09 | <0,00001 |
| PCDHB14 | 89.6 | 4.3 | 447.5 | 90.8 | 1315.7 | 62.1 | 881.6 | 469.6 | 3.03 | 8.19 | <0,00001 |
| PCDHB16 | 51.2 | 3.1 | 342.8 | 70.9 | 60.0 | 2.7 | 201.4 | 158.2 | 1.66 | 3.15 | 0.00345 |
| PCDHB7 | 118.0 | 6.7 | 498.4 | 46.2 | 200.7 | 5.0 | 349.5 | 162.0 | 1.48 | 2.78 | 0.00003 |
| PCDHB8 | 56.4 | 4.6 | 151.2 | 23.9 | 88.5 | 2.7 | 119.8 | 37.0 | 1.06 | 2.08 | 0.00005 |
| PCDHGB4 | 156.7 | 12.2 | 482.9 | 10.0 | 246.1 | 19.4 | 364.5 | 127.4 | 1.18 | 2.26 | 0.00003 |
| PCED1B | 237.2 | 4.8 | 739.7 | 30.0 | 800.3 | 74.8 | 770.0 | 61.9 | 1.70 | 3.24 | <0,00001 |
| PCOLCE2 | 400.1 | 30.5 | 1473.0 | 86.3 | 1865.3 | 117.3 | 1669.2 | 230.4 | 2.05 | 4.13 | <0,00001 |
| PCP4 | 251.7 | 25.0 | 47.2 | 3.1 | 60.1 | 4.7 | 53.7 | 7.8 | -2.22 | 0.21 | <0,00001 |
| PCSK9 | 116.5 | 12.3 | 53.4 | 5.1 | 39.5 | 3.6 | 46.5 | 8.5 | -1.32 | 0.40 | <0,00001 |
| PDGFA | 239.9 | 7.7 | 827.7 | 167.8 | 879.9 | 292.1 | 853.8 | 222.3 | 1.80 | 3.48 | <0,00001 |
| PDGFRL | 269.4 | 35.3 | 500.1 | 61.2 | 687.0 | 40.5 | 593.6 | 110.8 | 1.12 | 2.18 | <0,00001 |
| PDLIM1 | 863.9 | 30.3 | 2090.9 | 128.9 | 2741.2 | 180.1 | 2416.0 | 376.7 | 1.47 | 2.77 | <0,00001 |
| PDP1 | 191.9 | 35.3 | 386.3 | 43.4 | 527.7 | 129.8 | 457.0 | 117.2 | 1.23 | 2.34 | <0,00001 |
| PDXP | 1261.0 | 46.3 | 517.5 | 26.7 | 704.9 | 51.1 | 611.2 | 107.1 | -1.04 | 0.49 | <0,00001 |
| PEG10 | 72.4 | 4.9 | 285.9 | 56.3 | 1735.2 | 141.2 | 1010.6 | 781.0 | 3.14 | 8.84 | <0,00001 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PELI2 | 557.5 | 35.7 | 69.3 | 4.7 | 288.1 | 15.9 | 178.7 | 117.5 | -1.46 | 0.36 | 0.00262 |
| PENK | 750.1 | 224.5 | 187.3 | 10.8 | 485.2 | 43.5 | 336.2 | 161.9 | -1.08 | 0.47 | 0.00554 |
| PF4V1 | 33.0 | 2.1 | 36.2 | 1.7 | 785.5 | 138.0 | 410.8 | 410.6 | 2.42 | 5.35 | 0.00048 |
| PFKFB4 | 717.8 | 43.9 | 874.0 | 113.7 | 2493.9 | 243.6 | 1684.0 | 883.6 | 1.14 | 2.20 | 0.00449 |
| PGAM2 | 624.4 | 29.6 | 51.5 | 3.6 | 68.1 | 6.3 | 59.8 | 10.0 | -3.38 | 0.10 | <0,00001 |
| PGBD3 | 905.9 | 59.2 | 1668.1 | 51.5 | 2498.7 | 69.8 | 2083.4 | 447.6 | 1.18 | 2.27 | <0,00001 |
| PGF | 895.7 | 77.6 | 144.6 | 9.0 | 160.4 | 11.0 | 152.5 | 12.6 | -2.55 | 0.17 | <0,00001 |
| PGM5P4-AS | 734.8 | 72.2 | 449.6 | 31.2 | 201.8 | 12.4 | 325.7 | 134.3 | -1.12 | 0.46 | 0.00051 |
| PHYHIP | 197.0 | 9.7 | 51.7 | 3.9 | 53.2 | 4.2 | 52.4 | 3.8 | -1.91 | 0.27 | <0,00001 |
| PIGZ | 202.0 | 10.7 | 3542.7 | 118.2 | 1649.1 | 96.2 | 2595.9 | 1017.0 | 3.52 | 11.48 | <0,00001 |
| PIM3 | 12686.9 | 1615.7 | 4849.1 | 296.5 | 4203.5 | 263.6 | 4526.3 | 431.9 | -1.48 | 0.36 | <0,00001 |
| PIP5K1B | 767.6 | 25.3 | 116.2 | 17.9 | 65.8 | 12.0 | 91.0 | 30.4 | -2.99 | 0.13 | <0,00001 |
| PITX2 | 193.8 | 18.7 | 1146.3 | 220.6 | 2322.1 | 140.1 | 1734.2 | 651.4 | 3.03 | 8.15 | <0,00001 |
| PKDCC | 357.9 | 11.0 | 166.8 | 10.7 | 167.3 | 4.0 | 167.0 | 7.5 | -1.10 | 0.47 | <0,00001 |
| PKIB | 100.5 | 12.0 | 1379.0 | 43.9 | 664.5 | 68.6 | 1021.8 | 385.6 | 3.21 | 9.23 | <0,00001 |
| PKN3 | 286.1 | 13.2 | 89.2 | 4.0 | 75.7 | 3.0 | 82.5 | 7.9 | -1.80 | 0.29 | <0,00001 |
| PKNOX2 | 131.1 | 15.3 | 630.4 | 93.0 | 1062.9 | 77.0 | 846.7 | 244.3 | 2.62 | 6.15 | <0,00001 |
| PLA2G16 | 60464.3 | 2824.0 | 19530.0 | 1381.9 | 19982.3 | 712.3 | 19756.1 | 1046.1 | -1.61 | 0.33 | <0,00001 |
| PLA2R1 | 400.1 | 23.9 | 82.5 | 4.6 | 206.9 | 9.0 | 144.7 | 66.8 | -1.39 | 0.38 | 0.00006 |
| PLAT | 173.4 | 10.7 | 458.4 | 157.3 | 2013.6 | 340.5 | 1236.0 | 866.8 | 2.45 | 5.46 | <0,00001 |
| PLAU | 10576.9 | 524.6 | 12135.5 | 2540.0 | 42141.6 | 2712.2 | 27138.5 | 16222.4 | 1.23 | 2.34 | 0.00713 |
| PLAUR | 633.8 | 29.0 | 2687.4 | 256.5 | 1533.0 | 84.9 | 2110.2 | 641.9 | 1.69 | 3.23 | <0,00001 |
| PLBD1 | 889.5 | 49.6 | 300.5 | 24.6 | 250.6 | 19.3 | 275.6 | 33.6 | -1.68 | 0.31 | <0,00001 |
| PLCB4 | 559.0 | 48.9 | 2881.1 | 458.0 | 2023.3 | 343.6 | 2452.2 | 592.3 | 2.10 | 4.27 | <0,00001 |
| PLCD3 | 1587.4 | 135.6 | 538.1 | 38.5 | 891.6 | 106.0 | 714.8 | 202.9 | -1.13 | 0.46 | <0,00001 |
| PLCD4 | 43.5 | 1.6 | 72.1 | 5.0 | 234.6 | 11.7 | 153.4 | 87.2 | 1.66 | 3.16 | 0.00014 |
| PLCE1 | 7512.2 | 412.5 | 1271.2 | 57.6 | 2943.0 | 297.4 | 2107.1 | 915.3 | -1.75 | 0.30 | <0,00001 |
| PLEK2 | 148.9 | 5.6 | 582.6 | 70.9 | 434.4 | 11.5 | 508.5 | 92.1 | 1.75 | 3.37 | <0,00001 |
| PLEKHG4 | 90.6 | 8.8 | 382.2 | 60.1 | 134.2 | 10.3 | 258.2 | 138.5 | 1.40 | 2.63 | 0.00059 |
| PLEKHG5 | 1552.9 | 77.3 | 3115.8 | 120.4 | 3824.5 | 355.7 | 3470.2 | 451.6 | 1.15 | 2.23 | <0,00001 |
| PLEKHO2 | 507.6 | 30.4 | 1796.2 | 84.3 | 2653.8 | 213.2 | 2225.0 | 482.4 | 2.10 | 4.29 | <0,00001 |
| PLOD2 | 2614.2 | 202.5 | 11913.6 | 1479.7 | 8184.1 | 1295.5 | 10048.9 | 2373.1 | 1.91 | 3.76 | <0,00001 |
| PLP2 | 1260.2 | 84.2 | 2848.6 | 101.4 | 3024.7 | 311.0 | 2936.7 | 233.9 | 1.22 | 2.32 | <0,00001 |
| PLS1 | 319.8 | 10.2 | 144.1 | 4.2 | 93.8 | 4.7 | 118.9 | 27.2 | -1.41 | 0.38 | <0,00001 |
| PLSCR1 | 256.0 | 22.4 | 772.6 | 55.9 | 1163.5 | 91.6 | 968.0 | 220.4 | 1.89 | 3.70 | <0,00001 |
| PLSCR4 | 57.7 | 2.4 | 572.5 | 16.9 | 470.2 | 46.0 | 521.3 | 63.4 | 3.16 | 8.93 | <0,00001 |
| PLXDC2 | 1029.5 | 68.8 | 2041.1 | 487.9 | 6911.6 | 490.6 | 4476.3 | 2642.5 | 1.91 | 3.77 | 0.00001 |
| PMAIP1 | 649.1 | 72.5 | 295.2 | 13.7 | 273.7 | 36.9 | 284.5 | 28.2 | -1.18 | 0.44 | <0,00001 |
| PMCH | 40.3 | 2.5 | 35.6 | 1.0 | 376.4 | 36.9 | 206.0 | 183.8 | 1.79 | 3.47 | 0.00577 |
| PMCHL1 | 38.1 | 0.7 | 42.3 | 9.5 | 292.9 | 13.2 | 167.6 | 134.4 | 1.75 | 3.36 | 0.00329 |
| PMP22 | 2791.6 | 220.3 | 3854.6 | 172.7 | 30297.5 | 870.7 | 17076.0 | 14146.3 | 2.10 | 4.27 | 0.00038 |
| PNCK | 117.4 | 3.7 | 45.8 | 2.5 | 67.0 | 4.3 | 56.4 | 11.8 | -1.05 | 0.48 | <0,00001 |
| PNMA5 | 2076.6 | 95.3 | 782.8 | 36.4 | 891.3 | 47.9 | 837.0 | 70.1 | -1.31 | 0.40 | <0,00001 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PODNL1 | 128.1 | 11.9 | 545.7 | 79.2 | 2121.3 | 54.7 | 1333.5 | 844.5 | 3.00 | 7.99 | <0,00001 |
| PODXL | 5324.3 | 176.4 | 541.5 | 25.7 | 119.1 | 5.3 | 330.3 | 226.5 | -3.53 | 0.09 | <0,00001 |
| POMC | 167.2 | 6.0 | 55.8 | 1.6 | 47.9 | 3.4 | 51.9 | 4.9 | -1.69 | 0.31 | <0,00001 |
| PON2 | 6181.3 | 163.6 | 10909.5 | 832.2 | 14354.3 | 566.0 | 12631.9 | 1955.6 | 1.02 | 2.03 | <0,00001 |
| POPDC3 | 50.5 | 5.2 | 139.5 | 3.7 | 144.8 | 11.1 | 142.2 | 8.1 | 1.49 | 2.80 | <0,00001 |
| POSTN | 92.3 | 11.4 | 1225.1 | 436.9 | 792.3 | 92.1 | 1008.7 | 372.7 | 3.33 | 10.08 | <0,00001 |
| PP12613 | 1176.2 | 157.8 | 40.1 | 1.7 | 394.9 | 57.5 | 217.5 | 193.3 | -1.94 | 0.26 | 0.00200 |
| PPAP2A | 1485.2 | 62.2 | 1758.9 | 335.8 | 12063.5 | 252.9 | 6911.2 | 5514.9 | 1.82 | 3.52 | 0.00170 |
| PPAP2B | 456.5 | 25.5 | 452.6 | 47.1 | 3709.9 | 121.5 | 2081.2 | 1743.2 | 1.75 | 3.35 | 0.00413 |
| PPAPDC3 | 525.9 | 29.9 | 33.3 | 1.4 | 32.4 | 0.9 | 32.9 | 1.2 | -4.00 | 0.06 | <0,00001 |
| PPARG | 757.6 | 16.9 | 125.3 | 13.9 | 123.1 | 7.5 | 124.2 | 10.4 | -2.61 | 0.16 | <0,00001 |
| PPL | 1176.1 | 88.0 | 464.1 | 25.1 | 352.8 | 27.0 | 408.4 | 64.2 | -1.51 | 0.35 | <0,00001 |
| PPP1R14A | 568.3 | 23.1 | 91.3 | 2.0 | 96.4 | 4.3 | 93.8 | 4.1 | -2.60 | 0.17 | <0,00001 |
| PPP1R14C | 82.4 | 5.2 | 135.8 | 13.9 | 379.6 | 50.7 | 257.7 | 134.8 | 1.52 | 2.88 | 0.00011 |
| PPP1R1C | 67.6 | 2.1 | 114.8 | 7.3 | 685.5 | 33.6 | 400.2 | 305.9 | 2.14 | 4.42 | 0.00010 |
| PPP1R26 | 2317.4 | 116.7 | 941.5 | 42.2 | 790.2 | 29.6 | 865.9 | 87.6 | -1.41 | 0.38 | <0,00001 |
| PPP1R3C | 948.1 | 61.3 | 7961.5 | 1342.6 | 28412.5 | 1508.8 | 18187.0 | 11011.2 | 3.82 | 14.16 | <0,00001 |
| PPP2R3B | 2728.4 | 114.9 | 1246.6 | 106.7 | 875.3 | 40.1 | 1060.9 | 212.0 | -1.35 | 0.39 | <0,00001 |
| PRADC1 | 493.5 | 37.6 | 754.5 | 16.5 | 1301.2 | 155.6 | 1027.9 | 309.7 | 1.03 | 2.04 | 0.00001 |
| PRG4 | 44.6 | 4.5 | 37.7 | 2.0 | 879.9 | 75.0 | 458.8 | 452.9 | 2.23 | 4.70 | 0.00146 |
| PRINS | 729.3 | 115.0 | 171.3 | 18.3 | 250.0 | 26.0 | 210.6 | 46.9 | -1.77 | 0.29 | <0,00001 |
| PRMT9 | 1608.5 | 55.2 | 598.9 | 39.5 | 773.7 | 62.5 | 686.3 | 105.2 | -1.22 | 0.43 | <0,00001 |
| PROCR | 2725.4 | 88.5 | 20754.5 | 967.8 | 10419.7 | 489.4 | 15587.1 | 5569.6 | 2.43 | 5.38 | <0,00001 |
| PRODH | 212.8 | 12.7 | 51.0 | 4.1 | 56.5 | 1.3 | 53.7 | 4.1 | -1.99 | 0.25 | <0,00001 |
| PROM1 | 84.7 | 3.0 | 31.9 | 1.5 | 30.3 | 1.4 | 31.1 | 1.6 | -1.46 | 0.36 | <0,00001 |
| PRPH | 208.5 | 45.4 | 69.0 | 6.3 | 50.8 | 3.0 | 59.9 | 10.8 | -1.78 | 0.29 | <0,00001 |
| PRR5-ARHG | 220.2 | 9.6 | 57.4 | 3.5 | 49.8 | 1.4 | 53.6 | 4.8 | -2.03 | 0.24 | <0,00001 |
| PRRT3 | 339.1 | 45.2 | 1816.9 | 127.0 | 1902.9 | 176.0 | 1859.9 | 149.3 | 2.45 | 5.45 | <0,00001 |
| PRRX1 | 265.6 | 18.3 | 36.9 | 1.9 | 115.6 | 8.3 | 76.3 | 42.5 | -1.67 | 0.31 | 0.00004 |
| PRSS36 | 138.1 | 9.6 | 1034.9 | 105.9 | 642.9 | 125.4 | 838.9 | 235.5 | 2.54 | 5.80 | <0,00001 |
| PRSS8 | 570.6 | 19.6 | 101.8 | 2.7 | 87.6 | 3.9 | 94.7 | 8.2 | -2.59 | 0.17 | <0,00001 |
| PRTFDC1 | 333.8 | 19.6 | 401.3 | 26.7 | 1201.0 | 74.4 | 801.1 | 430.6 | 1.17 | 2.24 | 0.00458 |
| PSD2 | 51.5 | 3.1 | 383.4 | 17.2 | 217.9 | 4.5 | 300.6 | 89.3 | 2.49 | 5.60 | <0,00001 |
| PSD4 | 77.7 | 4.9 | 207.4 | 16.7 | 149.8 | 12.3 | 178.6 | 33.7 | 1.19 | 2.28 | <0,00001 |
| PSG1 | 908.2 | 61.5 | 72.9 | 4.5 | 180.1 | 6.7 | 126.5 | 57.5 | -2.70 | 0.15 | <0,00001 |
| PSG6 | 8009.7 | 577.4 | 646.7 | 39.9 | 1347.9 | 95.2 | 997.3 | 380.9 | -2.89 | 0.13 | <0,00001 |
| PSG7 | 1152.5 | 42.8 | 48.4 | 2.0 | 191.3 | 5.9 | 119.8 | 76.5 | -2.94 | 0.13 | <0,00001 |
| PTGER2 | 82.7 | 5.6 | 323.3 | 18.7 | 399.9 | 20.4 | 361.6 | 44.8 | 2.12 | 4.34 | <0,00001 |
| PTGES | 156.6 | 8.8 | 62.6 | 14.6 | 33.6 | 1.0 | 48.1 | 18.2 | -1.66 | 0.32 | <0,00001 |
| PTGFRN | 151.3 | 6.8 | 66.5 | 3.3 | 49.8 | 3.8 | 58.1 | 9.5 | -1.38 | 0.38 | <0,00001 |
| PTGR1 | 3629.4 | 289.1 | 6082.2 | 411.3 | 12604.6 | 333.5 | 9343.4 | 3503.5 | 1.31 | 2.48 | <0,00001 |
| PTPN6 | 125.3 | 3.6 | 54.8 | 0.3 | 58.0 | 3.1 | 56.4 | 2.7 | -1.15 | 0.45 | <0,00001 |
| PTPRD | 131.5 | 14.0 | 35.5 | 2.1 | 43.6 | 2.0 | 39.6 | 4.7 | -1.73 | 0.30 | <0,00001 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PTPRN | 80.4 | 6.2 | 319.2 | 27.4 | 92.0 | 3.6 | 205.6 | 122.8 | 1.22 | 2.33 | 0.00850 |
| PTPRU | 612.7 | 23.2 | 326.3 | 11.2 | 214.7 | 16.1 | 270.5 | 61.1 | -1.16 | 0.45 | <0,00001 |
| PTTG1 | 2901.6 | 43.5 | 939.5 | 52.7 | 1718.1 | 42.4 | 1328.8 | 418.5 | -1.10 | 0.47 | 0.00001 |
| RAB15 | 16614.1 | 1114.4 | 7767.5 | 281.0 | 5054.2 | 318.1 | 6410.9 | 1476.7 | -1.35 | 0.39 | <0,00001 |
| RAB20 | 213.5 | 10.3 | 85.7 | 8.8 | 78.2 | 7.4 | 81.9 | 8.6 | -1.38 | 0.38 | <0,00001 |
| RAB33A | 1606.5 | 80.6 | 276.9 | 14.1 | 423.4 | 38.1 | 350.1 | 82.7 | -2.17 | 0.22 | <0,00001 |
| RAB38 | 120.5 | 5.0 | 47.3 | 2.4 | 55.7 | 3.3 | 51.5 | 5.2 | -1.23 | 0.43 | <0,00001 |
| RAD51C | 3580.1 | 132.8 | 1332.5 | 23.2 | 1539.7 | 40.8 | 1436.1 | 114.9 | -1.32 | 0.40 | <0,00001 |
| RAD54B | 286.8 | 9.2 | 785.6 | 38.4 | 654.4 | 39.7 | 720.0 | 78.9 | 1.32 | 2.50 | <0,00001 |
| RALYL | 87.0 | 5.6 | 37.7 | 1.7 | 38.3 | 1.7 | 38.0 | 1.6 | -1.19 | 0.44 | <0,00001 |
| RARRES2 | 7116.2 | 346.1 | 3391.7 | 519.2 | 2848.8 | 84.3 | 3120.3 | 450.4 | -1.18 | 0.44 | <0,00001 |
| RASA1 | 450.4 | 17.4 | 2420.8 | 249.6 | 809.8 | 40.2 | 1615.3 | 876.9 | 1.70 | 3.25 | 0.00002 |
| RASGRP3 | 458.0 | 7.0 | 108.5 | 4.3 | 49.0 | 3.2 | 78.7 | 32.0 | -2.44 | 0.18 | <0,00001 |
| RASL10A | 63.1 | 3.9 | 123.8 | 6.3 | 156.7 | 6.4 | 140.2 | 18.5 | 1.15 | 2.21 | <0,00001 |
| RASL11B | 3860.7 | 154.1 | 61.1 | 8.3 | 739.9 | 7.8 | 400.5 | 362.9 | -2.55 | 0.17 | 0.00006 |
| RAX | 10776.1 | 836.5 | 68.9 | 5.8 | 216.2 | 16.2 | 142.6 | 79.5 | -5.77 | 0.02 | <0,00001 |
| RBBP8 | 1802.3 | 97.2 | 656.5 | 21.8 | 499.4 | 17.9 | 577.9 | 86.0 | -1.63 | 0.32 | <0,00001 |
| RBKS | 284.5 | 15.7 | 892.6 | 97.3 | 821.6 | 22.5 | 857.1 | 75.6 | 1.59 | 3.01 | <0,00001 |
| RBM11 | 80.0 | 5.8 | 37.7 | 3.3 | 33.9 | 0.8 | 35.8 | 3.0 | -1.15 | 0.45 | <0,00001 |
| RBP1 | 5851.7 | 290.8 | 19144.9 | 2750.2 | 14978.9 | 738.9 | 17061.9 | 2904.2 | 1.53 | 2.89 | <0,00001 |
| RBP7 | 785.1 | 43.7 | 254.6 | 38.3 | 65.2 | 0.3 | 159.9 | 104.3 | -2.05 | 0.24 | 0.00001 |
| RBPMS2 | 160.0 | 11.7 | 94.2 | 11.5 | 48.5 | 2.8 | 71.3 | 25.7 | -1.13 | 0.46 | 0.00004 |
| RCAN1 | 1306.4 | 14.6 | 12599.7 | 282.2 | 5229.9 | 277.8 | 8914.8 | 3947.9 | 2.62 | 6.16 | <0,00001 |
| RCAN2 | 3769.1 | 90.4 | 1208.9 | 334.4 | 156.2 | 14.8 | 682.5 | 603.9 | -2.01 | 0.25 | 0.00077 |
| RCAN3 | 81.1 | 13.1 | 214.8 | 11.8 | 136.9 | 29.7 | 175.8 | 46.6 | 1.09 | 2.13 | 0.00001 |
| RDH13 | 1273.2 | 80.6 | 559.4 | 27.3 | 540.0 | 30.9 | 549.7 | 28.9 | -1.21 | 0.43 | <0,00001 |
| RELL1 | 1996.9 | 205.7 | 6919.1 | 351.1 | 5287.2 | 194.8 | 6103.2 | 911.1 | 1.60 | 3.03 | <0,00001 |
| RENBP | 297.9 | 20.0 | 71.6 | 4.5 | 81.6 | 5.2 | 76.6 | 7.0 | -1.96 | 0.26 | <0,00001 |
| RFPL1S | 48.3 | 1.6 | 88.6 | 5.1 | 238.1 | 13.2 | 163.4 | 80.5 | 1.65 | 3.13 | 0.00002 |
| RFTN1 | 18736.0 | 1114.8 | 5730.1 | 124.9 | 6966.0 | 304.6 | 6348.1 | 694.9 | -1.56 | 0.34 | <0,00001 |
| RGAG4 | 480.3 | 5.9 | 142.6 | 9.9 | 113.7 | 9.4 | 128.1 | 17.9 | -1.90 | 0.27 | <0,00001 |
| RGL4 | 32.0 | 1.1 | 258.6 | 138.0 | 32.6 | 1.7 | 145.6 | 150.8 | 1.71 | 3.28 | 0.00708 |
| RGS10 | 2751.2 | 186.1 | 9071.7 | 44.7 | 18810.0 | 320.6 | 13940.9 | 5209.7 | 2.25 | 4.76 | <0,00001 |
| RGS20 | 1201.8 | 18.7 | 362.3 | 33.1 | 796.5 | 44.7 | 579.4 | 234.9 | -1.01 | 0.50 | 0.00126 |
| RHCE | 39.7 | 2.0 | 44.7 | 2.1 | 208.4 | 12.7 | 126.5 | 87.9 | 1.45 | 2.74 | 0.00600 |
| RHPN2 | 402.2 | 15.1 | 194.1 | 15.9 | 97.3 | 4.7 | 145.7 | 52.9 | -1.42 | 0.37 | <0,00001 |
| RIMKLA | 827.8 | 28.5 | 145.1 | 24.6 | 358.8 | 18.0 | 251.9 | 115.9 | -1.62 | 0.32 | <0,00001 |
| RLBP1 | 262.3 | 40.2 | 54.7 | 2.0 | 47.8 | 4.4 | 51.3 | 4.9 | -2.35 | 0.20 | <0,00001 |
| RLN2 | 100.5 | 8.3 | 55.6 | 4.9 | 32.9 | 2.3 | 44.3 | 12.7 | -1.16 | 0.45 | <0,00001 |
| RNF122 | 1212.8 | 54.6 | 1746.8 | 39.1 | 6631.4 | 325.0 | 4189.1 | 2619.7 | 1.60 | 3.03 | 0.00049 |
| RNF150 | 268.6 | 26.4 | 645.4 | 33.1 | 469.6 | 45.4 | 557.5 | 100.9 | 1.04 | 2.06 | <0,00001 |
| RNF24 | 165.8 | 7.2 | 497.5 | 11.3 | 542.9 | 13.6 | 520.2 | 26.9 | 1.65 | 3.14 | <0,00001 |
| ROM1 | 1382.9 | 124.3 | 2778.9 | 115.7 | 3382.2 | 99.8 | 3080.6 | 337.6 | 1.15 | 2.22 | <0,00001 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| RPP25 | 319.6 | 17.3 | 114.9 | 4.8 | 82.4 | 8.4 | 98.7 | 18.5 | -1.69 | 0.31 | <0,00001 |
| RPS4Y1 | 38570.1 | 1973.4 | 35.1 | 4.3 | 33.2 | 3.8 | 34.1 | 3.9 | -10.10 | 0.00 | <0,00001 |
| RPS4Y2 | 47580.2 | 870.1 | 38.0 | 1.6 | 36.4 | 1.7 | 37.2 | 1.7 | -10.30 | 0.00 | <0,00001 |
| RPS6KA1 | 1204.5 | 33.9 | 519.8 | 53.8 | 538.6 | 30.4 | 529.2 | 41.7 | -1.18 | 0.44 | <0,00001 |
| RPS6KA2 | 6053.9 | 760.5 | 1779.6 | 42.0 | 3602.6 | 382.1 | 2691.1 | 1006.4 | -1.13 | 0.46 | 0.00009 |
| RRAGD | 561.4 | 25.2 | 46.0 | 2.2 | 126.5 | 6.0 | 86.3 | 43.3 | -2.54 | 0.17 | <0,00001 |
| RRN3P1 | 185.4 | 13.7 | 77.2 | 1.6 | 76.2 | 8.0 | 76.7 | 5.4 | -1.27 | 0.41 | <0,00001 |
| RUNDC3B | 72.5 | 6.5 | 33.2 | 2.9 | 30.6 | 3.0 | 31.9 | 3.0 | -1.19 | 0.44 | <0,00001 |
| RUSC2 | 2302.1 | 66.1 | 8591.0 | 458.7 | 4472.3 | 207.5 | 6531.6 | 2226.1 | 1.46 | 2.74 | <0,00001 |
| SAA1 | 35.2 | 1.1 | 122.0 | 31.4 | 48.7 | 3.1 | 85.4 | 44.3 | 1.21 | 2.31 | 0.00237 |
| SAMD14 | 153.8 | 3.4 | 225.3 | 33.8 | 1126.6 | 22.5 | 676.0 | 482.5 | 1.83 | 3.56 | 0.00044 |
| SAMD5 | 88.9 | 6.7 | 46.7 | 1.7 | 39.1 | 2.0 | 42.9 | 4.4 | -1.05 | 0.48 | <0,00001 |
| SAMD9L | 31.4 | 3.4 | 44.5 | 4.5 | 236.2 | 16.3 | 140.4 | 103.0 | 1.83 | 3.55 | 0.00084 |
| SCG2 | 307.2 | 12.1 | 144.7 | 11.7 | 9810.0 | 582.3 | 4977.3 | 5180.4 | 2.01 | 4.03 | 0.00887 |
| SCG5 | 5148.6 | 249.4 | 876.2 | 155.5 | 622.0 | 34.0 | 749.1 | 171.2 | -2.74 | 0.15 | <0,00001 |
| SDSL | 899.2 | 285.9 | 1850.9 | 243.0 | 1909.3 | 127.9 | 1880.1 | 182.4 | 1.05 | 2.06 | <0,00001 |
| SELM | 5935.5 | 367.9 | 10460.0 | 423.9 | 28269.4 | 1825.2 | 19364.7 | 9598.2 | 1.59 | 3.02 | 0.00001 |
| SELPLG | 127.6 | 4.9 | 359.7 | 25.3 | 309.8 | 26.0 | 334.7 | 35.7 | 1.39 | 2.62 | <0,00001 |
| SEMA3C | 1073.8 | 60.1 | 4053.0 | 312.7 | 3103.6 | 103.8 | 3578.3 | 551.4 | 1.72 | 3.30 | <0,00001 |
| SEMA5B | 684.3 | 39.6 | 187.0 | 28.0 | 215.4 | 20.3 | 201.2 | 27.2 | -1.76 | 0.30 | <0,00001 |
| SEMA7A | 31.9 | 3.9 | 78.3 | 7.9 | 70.6 | 3.2 | 74.5 | 6.9 | 1.22 | 2.32 | <0,00001 |
| SEPT11 | 488.9 | 24.7 | 1988.9 | 154.3 | 2191.1 | 178.3 | 2090.0 | 188.5 | 2.09 | 4.26 | <0,00001 |
| SEPT4 | 559.1 | 16.4 | 105.7 | 3.3 | 66.8 | 3.4 | 86.2 | 21.0 | -2.66 | 0.16 | <0,00001 |
| SEPT8 | 714.2 | 38.5 | 202.4 | 12.8 | 228.6 | 7.5 | 215.5 | 17.0 | -1.73 | 0.30 | <0,00001 |
| SERHL2 | 148.4 | 10.4 | 244.6 | 10.0 | 469.2 | 21.2 | 356.9 | 121.0 | 1.22 | 2.34 | <0,00001 |
| SERPINB7 | 44.5 | 1.0 | 1522.8 | 211.2 | 119.0 | 3.5 | 820.9 | 763.0 | 3.05 | 8.27 | <0,00001 |
| SERPINE1 | 2698.8 | 201.9 | 16692.8 | 1124.9 | 7861.5 | 697.9 | 12277.1 | 4799.4 | 2.09 | 4.27 | <0,00001 |
| SERPINE2 | 611.7 | 31.9 | 15520.1 | 3879.0 | 11049.0 | 1322.2 | 13284.6 | 3593.0 | 4.35 | 20.46 | <0,00001 |
| SERPINE3 | 315.6 | 100.0 | 37.0 | 3.1 | 32.8 | 1.1 | 34.9 | 3.1 | -3.12 | 0.11 | <0,00001 |
| SERPINF1 | 29647.2 | 1851.2 | 1426.0 | 21.3 | 12078.5 | 407.1 | 6752.3 | 5700.3 | -1.74 | 0.30 | 0.00459 |
| SERPINF2 | 119.8 | 6.5 | 43.1 | 2.4 | 47.4 | 1.6 | 45.2 | 3.0 | -1.41 | 0.38 | <0,00001 |
| SERPINI1 | 50.1 | 1.4 | 144.1 | 6.8 | 216.9 | 16.1 | 180.5 | 40.6 | 1.83 | 3.54 | <0,00001 |
| SFRP5 | 183.6 | 29.5 | 36.8 | 0.6 | 37.1 | 1.5 | 36.9 | 1.1 | -2.30 | 0.20 | <0,00001 |
| SFTPD | 70.4 | 4.8 | 99.4 | 8.2 | 333.8 | 5.4 | 216.6 | 125.4 | 1.47 | 2.78 | 0.00088 |
| SGCE | 2193.6 | 89.5 | 3058.4 | 342.0 | 6744.9 | 331.0 | 4901.7 | 1995.0 | 1.11 | 2.15 | 0.00041 |
| SGK1 | 4896.1 | 115.3 | 15844.8 | 1790.9 | 16453.9 | 1141.4 | 16149.3 | 1427.9 | 1.72 | 3.29 | <0,00001 |
| SGMS1 | 605.1 | 22.6 | 1363.4 | 46.5 | 1741.7 | 54.2 | 1552.6 | 207.5 | 1.35 | 2.55 | <0,00001 |
| SH2D4A | 99.0 | 6.7 | 262.6 | 29.1 | 170.8 | 10.1 | 216.7 | 53.0 | 1.11 | 2.16 | <0,00001 |
| SH3BGRL3 | 4567.4 | 206.0 | 9249.6 | 709.4 | 13446.6 | 182.9 | 11348.1 | 2294.1 | 1.30 | 2.46 | <0,00001 |
| SH3RF3 | 209.5 | 15.7 | 31.8 | 1.4 | 37.0 | 3.4 | 34.4 | 3.7 | -2.60 | 0.17 | <0,00001 |
| SHROOM1 | 272.9 | 10.8 | 848.7 | 18.7 | 969.6 | 66.9 | 909.1 | 79.0 | 1.73 | 3.33 | <0,00001 |
| SIPA1L2 | 1785.5 | 190.4 | 133.1 | 8.7 | 176.6 | 4.5 | 154.9 | 24.1 | -3.51 | 0.09 | <0,00001 |
| SIX1 | 43.9 | 2.1 | 118.1 | 6.7 | 632.5 | 55.7 | 375.3 | 277.4 | 2.62 | 6.17 | <0,00001 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| SLC10A3 | 4096.1 | 248.7 | 7580.5 | 289.1 | 9342.8 | 131.8 | 8461.7 | 964.6 | 1.04 | 2.06 | <0,00001 |
| SLC10A4 | 128.3 | 11.2 | 54.1 | 1.7 | 49.4 | 4.3 | 51.8 | 3.9 | -1.30 | 0.40 | <0,00001 |
| SLC16A8 | 732.2 | 109.8 | 153.7 | 11.4 | 117.0 | 7.7 | 135.4 | 21.6 | -2.41 | 0.19 | <0,00001 |
| SLC17A5 | 374.4 | 36.6 | 970.7 | 57.6 | 892.5 | 91.0 | 931.6 | 82.0 | 1.31 | 2.48 | <0,00001 |
| SLC1A5 | 1057.9 | 95.5 | 389.8 | 23.8 | 455.5 | 16.5 | 422.6 | 39.9 | -1.32 | 0.40 | <0,00001 |
| SLC22A4 | 107.2 | 8.1 | 320.2 | 23.0 | 378.4 | 37.8 | 349.3 | 42.5 | 1.70 | 3.24 | <0,00001 |
| SLC25A6 | 19912.4 | 1121.5 | 10981.4 | 518.3 | 6554.1 | 229.6 | 8767.7 | 2395.4 | -1.16 | 0.45 | <0,00001 |
| SLC26A11 | 8487.1 | 520.3 | 3919.9 | 127.3 | 4210.6 | 231.8 | 4065.3 | 232.6 | -1.06 | 0.48 | <0,00001 |
| SLC2A14 | 247.7 | 13.5 | 1098.8 | 72.1 | 886.9 | 60.3 | 992.9 | 128.9 | 1.99 | 3.98 | <0,00001 |
| SLC30A10 | 420.0 | 44.5 | 105.5 | 5.0 | 214.3 | 18.8 | 159.9 | 59.5 | -1.35 | 0.39 | <0,00001 |
| SLC31A2 | 888.2 | 53.8 | 3364.3 | 290.7 | 1345.1 | 71.4 | 2354.7 | 1096.9 | 1.33 | 2.51 | 0.00018 |
| SLC35F3 | 55.0 | 3.8 | 1090.9 | 18.2 | 132.6 | 5.4 | 611.7 | 512.4 | 2.74 | 6.69 | <0,00001 |
| SLC35G1 | 1074.9 | 38.0 | 186.4 | 10.3 | 155.2 | 8.4 | 170.8 | 18.8 | -2.65 | 0.16 | <0,00001 |
| SLC37A1 | 123.3 | 7.1 | 49.0 | 1.2 | 31.7 | 1.9 | 40.4 | 9.3 | -1.60 | 0.33 | <0,00001 |
| SLC39A9 | 138.3 | 16.7 | 212.5 | 11.2 | 390.9 | 17.7 | 301.7 | 96.3 | 1.09 | 2.13 | 0.00003 |
| SLC3A1 | 244.3 | 22.2 | 52.7 | 2.0 | 61.0 | 3.5 | 56.9 | 5.2 | -2.09 | 0.23 | <0,00001 |
| SLC43A3 | 163.7 | 7.3 | 32.7 | 1.0 | 34.2 | 1.7 | 33.4 | 1.5 | -2.30 | 0.20 | <0,00001 |
| SLC45A2 | 565.2 | 41.8 | 83.0 | 5.6 | 114.9 | 3.4 | 99.0 | 17.5 | -2.50 | 0.18 | <0,00001 |
| SLC5A3 | 180.6 | 7.0 | 72.8 | 5.8 | 105.0 | 8.0 | 88.9 | 18.4 | -1.02 | 0.49 | <0,00001 |
| SLC5A8 | 89.8 | 5.8 | 34.4 | 0.7 | 47.5 | 3.8 | 41.0 | 7.5 | -1.14 | 0.45 | <0,00001 |
| SLC7A8 | 2370.5 | 137.5 | 77.8 | 19.6 | 83.6 | 4.7 | 80.7 | 13.6 | -4.85 | 0.03 | <0,00001 |
| SLC9A7 | 122.6 | 11.3 | 275.9 | 10.0 | 374.2 | 40.8 | 325.1 | 59.3 | 1.39 | 2.63 | <0,00001 |
| SLC9B2 | 390.7 | 19.4 | 200.8 | 11.5 | 143.5 | 4.1 | 172.2 | 31.7 | -1.17 | 0.44 | <0,00001 |
| SLITRK6 | 95.8 | 8.1 | 6614.7 | 688.4 | 3947.0 | 453.8 | 5280.8 | 1524.7 | 5.63 | 49.46 | <0,00001 |
| SMAD6 | 2212.9 | 137.5 | 580.1 | 74.4 | 669.5 | 47.0 | 624.8 | 74.9 | -1.82 | 0.28 | <0,00001 |
| SMIM10L2B | 6407.8 | 176.2 | 858.5 | 83.1 | 1542.5 | 152.3 | 1200.5 | 382.8 | -2.35 | 0.20 | <0,00001 |
| SMIM3 | 2826.0 | 200.3 | 5688.4 | 581.6 | 16156.8 | 838.7 | 10922.6 | 5635.3 | 1.81 | 3.50 | <0,00001 |
| SMPD1 | 1526.7 | 111.8 | 3665.9 | 285.9 | 3631.5 | 287.5 | 3648.7 | 266.1 | 1.25 | 2.38 | <0,00001 |
| SMPDL3B | 886.8 | 59.1 | 346.3 | 26.2 | 92.1 | 4.4 | 219.2 | 137.0 | -1.81 | 0.28 | 0.00007 |
| SMPX | 161.2 | 12.2 | 32.9 | 1.8 | 34.1 | 3.0 | 33.5 | 2.4 | -2.27 | 0.21 | <0,00001 |
| SMTN | 1173.2 | 86.2 | 3049.7 | 206.6 | 2347.6 | 407.9 | 2698.7 | 480.1 | 1.19 | 2.28 | <0,00001 |
| SNAI1 | 275.5 | 19.6 | 691.1 | 60.6 | 3560.1 | 201.3 | 2125.6 | 1539.7 | 2.52 | 5.73 | <0,00001 |
| SNAI3-AS1 | 645.1 | 18.3 | 1087.7 | 19.9 | 1742.1 | 26.1 | 1414.9 | 350.5 | 1.11 | 2.16 | <0,00001 |
| SNAP91 | 108.8 | 0.6 | 33.1 | 1.9 | 39.3 | 2.9 | 36.2 | 4.0 | -1.59 | 0.33 | <0,00001 |
| SNHG15 | 3971.6 | 134.3 | 1612.6 | 94.5 | 1907.9 | 113.4 | 1760.2 | 185.1 | -1.17 | 0.44 | <0,00001 |
| SNX7 | 2748.2 | 90.4 | 6555.1 | 262.6 | 5835.7 | 163.3 | 6195.4 | 434.6 | 1.17 | 2.25 | <0,00001 |
| SOBP | 196.3 | 19.8 | 457.4 | 11.8 | 455.6 | 9.8 | 456.5 | 10.1 | 1.22 | 2.33 | <0,00001 |
| SORL1 | 1030.6 | 123.3 | 389.7 | 81.3 | 428.4 | 32.1 | 409.1 | 60.9 | -1.32 | 0.40 | <0,00001 |
| SOSTDC1 | 245.2 | 9.0 | 34.7 | 0.9 | 73.1 | 3.7 | 53.9 | 20.7 | -2.12 | 0.23 | <0,00001 |
| SOX9 | 440.7 | 61.3 | 1814.5 | 69.6 | 1042.1 | 70.8 | 1428.3 | 418.0 | 1.65 | 3.15 | <0,00001 |
| SOX9-AS1 | 42.8 | 3.9 | 157.2 | 19.1 | 221.7 | 16.0 | 189.5 | 38.1 | 2.12 | 4.35 | <0,00001 |
| SPATA13 | 57.0 | 9.3 | 103.0 | 7.1 | 168.2 | 37.2 | 135.6 | 42.7 | 1.22 | 2.34 | <0,00001 |
| SPHK1 | 3307.7 | 222.3 | 1868.5 | 82.9 | 1372.0 | 69.9 | 1620.2 | 274.7 | -1.02 | 0.49 | <0,00001 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SPINT1 | 1155.7 | 134.8 | 69.6 | 12.2 | 53.3 | 3.6 | 61.4 | 12.0 | -4.20 | 0.05 | <0,00001 |
| SPINT2 | 24975.9 | 1014.0 | 13229.5 | 712.2 | 4522.9 | 83.3 | 8876.2 | 4677.5 | -1.38 | 0.38 | 0.00050 |
| SPNS3 | 323.4 | 15.8 | 105.7 | 5.4 | 74.1 | 4.4 | 89.9 | 17.5 | -1.83 | 0.28 | <0,00001 |
| SPOCK1 | 1548.1 | 49.5 | 4492.5 | 367.8 | 10922.9 | 414.4 | 7707.7 | 3456.3 | 2.19 | 4.56 | <0,00001 |
| SPON2 | 10768.1 | 929.2 | 51.0 | 3.3 | 1433.3 | 71.2 | 742.2 | 740.4 | -2.72 | 0.15 | 0.00009 |
| SPRY1 | 61.0 | 3.6 | 144.3 | 13.9 | 599.7 | 9.8 | 372.0 | 243.7 | 2.30 | 4.91 | <0,00001 |
| SPRY2 | 752.2 | 49.2 | 3147.7 | 101.4 | 3773.4 | 84.6 | 3460.6 | 345.4 | 2.19 | 4.57 | <0,00001 |
| SQRDL | 4212.7 | 189.2 | 9395.3 | 1172.5 | 8469.5 | 472.0 | 8932.4 | 964.1 | 1.08 | 2.11 | <0,00001 |
| SRD5A3 | 1017.8 | 89.7 | 2225.6 | 66.6 | 2199.5 | 162.8 | 2212.6 | 116.0 | 1.12 | 2.17 | <0,00001 |
| SRPX2 | 95.3 | 6.1 | 1981.5 | 272.4 | 2853.5 | 116.7 | 2417.5 | 504.9 | 4.60 | 24.17 | <0,00001 |
| SRRM4 | 78.4 | 25.5 | 36.9 | 1.3 | 36.7 | 2.4 | 36.8 | 1.8 | -1.06 | 0.48 | <0,00001 |
| SSC4D | 3237.5 | 176.5 | 281.8 | 5.3 | 308.8 | 79.6 | 295.3 | 54.2 | -3.42 | 0.09 | <0,00001 |
| SSC5D | 106.6 | 12.2 | 432.6 | 108.6 | 542.2 | 136.3 | 487.4 | 128.2 | 2.15 | 4.44 | <0,00001 |
| SSPN | 911.9 | 64.7 | 4257.2 | 570.1 | 1912.9 | 37.3 | 3085.1 | 1307.7 | 1.68 | 3.19 | <0,00001 |
| SST | 2215.3 | 177.0 | 35.7 | 1.1 | 36.0 | 1.8 | 35.9 | 1.4 | -5.92 | 0.02 | <0,00001 |
| SSUH2 | 166.4 | 7.6 | 39.5 | 1.8 | 47.1 | 1.8 | 43.3 | 4.4 | -1.94 | 0.26 | <0,00001 |
| ST6GALNAC | 2634.4 | 131.2 | 321.6 | 29.6 | 569.3 | 30.8 | 445.4 | 135.3 | -2.50 | 0.18 | <0,00001 |
| ST6GALNAC | 353.3 | 7.9 | 66.2 | 4.0 | 33.2 | 1.0 | 49.7 | 17.8 | -2.75 | 0.15 | <0,00001 |
| ST8SIA1 | 122.5 | 7.6 | 209.7 | 42.4 | 293.5 | 19.3 | 251.6 | 54.2 | 1.03 | 2.04 | <0,00001 |
| STAP2 | 696.5 | 26.9 | 161.6 | 10.1 | 171.6 | 14.5 | 166.6 | 12.8 | -2.06 | 0.24 | <0,00001 |
| STEAP2 | 43.6 | 1.1 | 134.2 | 7.5 | 54.4 | 2.1 | 94.3 | 43.0 | 1.06 | 2.09 | 0.00465 |
| STK26 | 9240.3 | 1081.4 | 2916.3 | 196.4 | 876.7 | 59.3 | 1896.5 | 1098.5 | -2.08 | 0.24 | <0,00001 |
| STRA6 | 82.1 | 7.7 | 296.2 | 85.1 | 536.3 | 41.3 | 416.3 | 142.5 | 2.25 | 4.76 | <0,00001 |
| STX11 | 308.7 | 22.0 | 188.0 | 23.2 | 58.8 | 4.4 | 123.4 | 70.8 | -1.21 | 0.43 | 0.00528 |
| SULF1 | 6103.8 | 410.1 | 83428.3 | 9571.8 | 28100.2 | 2127.6 | 55764.3 | 30262.8 | 2.94 | 7.68 | <0,00001 |
| SULF2 | 12718.0 | 718.5 | 17172.0 | 535.8 | 44821.0 | 1788.9 | 30996.5 | 14829.5 | 1.21 | 2.31 | 0.00089 |
| SVIL | 86.0 | 3.5 | 249.6 | 32.9 | 692.2 | 83.4 | 470.9 | 243.8 | 2.27 | 4.83 | <0,00001 |
| SVILP1 | 40.4 | 1.9 | 82.9 | 10.0 | 165.6 | 11.3 | 124.2 | 45.3 | 1.56 | 2.96 | <0,00001 |
| SYNC | 1814.5 | 50.2 | 5050.1 | 337.4 | 2880.7 | 193.8 | 3965.4 | 1187.2 | 1.10 | 2.14 | <0,00001 |
| SYT1 | 483.9 | 119.5 | 155.0 | 19.6 | 213.6 | 57.5 | 184.3 | 50.6 | -1.36 | 0.39 | <0,00001 |
| SYT14 | 368.9 | 10.9 | 60.8 | 3.3 | 92.0 | 6.3 | 76.4 | 17.3 | -2.25 | 0.21 | <0,00001 |
| SYT17 | 1677.7 | 102.5 | 147.0 | 10.6 | 853.7 | 52.4 | 500.4 | 379.4 | -1.49 | 0.36 | 0.00773 |
| TBC1D10A | 2131.8 | 34.5 | 4202.5 | 272.2 | 4407.8 | 298.5 | 4305.2 | 286.3 | 1.01 | 2.02 | <0,00001 |
| TBC1D19 | 481.8 | 30.3 | 843.3 | 27.1 | 1449.5 | 175.5 | 1146.4 | 344.2 | 1.22 | 2.33 | <0,00001 |
| TBC1D4 | 40.1 | 3.2 | 237.2 | 8.1 | 63.3 | 2.7 | 150.2 | 93.1 | 1.71 | 3.28 | 0.00029 |
| TBL1X | 779.8 | 22.4 | 343.0 | 10.1 | 289.5 | 7.9 | 316.3 | 29.8 | -1.30 | 0.41 | <0,00001 |
| TC2N | 238.1 | 14.3 | 67.8 | 5.8 | 35.4 | 2.0 | 51.6 | 17.8 | -2.15 | 0.23 | <0,00001 |
| TCEAL2 | 1016.2 | 70.8 | 304.8 | 27.8 | 253.7 | 25.9 | 279.3 | 36.9 | -1.85 | 0.28 | <0,00001 |
| TCIRG1 | 9356.1 | 867.1 | 1787.7 | 206.3 | 3613.8 | 188.3 | 2700.8 | 993.1 | -1.73 | 0.30 | <0,00001 |
| TCP11L1 | 303.7 | 9.0 | 725.9 | 46.8 | 1042.3 | 88.4 | 884.1 | 181.4 | 1.52 | 2.87 | <0,00001 |
| TDO2 | 37.7 | 0.5 | 41.6 | 1.5 | 359.3 | 24.4 | 200.5 | 170.6 | 1.90 | 3.73 | 0.00220 |
| TDRD9 | 81.1 | 2.4 | 38.0 | 2.4 | 4002.1 | 232.4 | 2020.1 | 2124.4 | 2.05 | 4.15 | 0.00795 |
| TEKT4 | 33.9 | 3.2 | 118.6 | 4.4 | 196.4 | 20.1 | 157.5 | 43.7 | 2.17 | 4.50 | <0,00001 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| TEKT5 | 145.0 | 8.4 | 57.7 | 4.0 | 63.0 | 3.9 | 60.3 | 4.6 | -1.26 | 0.42 | <0,00001 |
| TESC | 55.8 | 3.5 | 221.7 | 16.8 | 240.8 | 20.3 | 231.3 | 20.0 | 2.05 | 4.13 | <0,00001 |
| TFEB | 687.7 | 17.8 | 1405.0 | 82.3 | 2840.7 | 77.3 | 2122.9 | 771.0 | 1.57 | 2.96 | <0,00001 |
| TFRC | 9910.3 | 439.1 | 3321.9 | 136.5 | 5141.3 | 241.2 | 4231.6 | 989.3 | -1.21 | 0.43 | <0,00001 |
| TG | 47.2 | 1.5 | 115.2 | 5.1 | 168.3 | 8.3 | 141.8 | 29.1 | 1.57 | 2.97 | <0,00001 |
| TGFA | 36.5 | 2.6 | 129.8 | 20.7 | 137.4 | 9.4 | 133.6 | 15.4 | 1.87 | 3.66 | <0,00001 |
| TGFBI | 114498.5 | 6315.0 | 167939.3 | 21323.7 | 319800.3 | 12188.2 | 243869.8 | 82750.3 | 1.05 | 2.08 | 0.00007 |
| TGIF1 | 1693.7 | 62.5 | 772.7 | 77.9 | 360.1 | 8.4 | 566.4 | 226.5 | -1.51 | 0.35 | <0,00001 |
| THBD | 3129.7 | 416.3 | 97.3 | 21.7 | 37.5 | 2.2 | 67.4 | 35.0 | -5.20 | 0.03 | <0,00001 |
| THNSL2 | 162.0 | 7.5 | 425.6 | 12.2 | 1466.8 | 65.2 | 946.2 | 558.2 | 2.30 | 4.94 | <0,00001 |
| THOC3 | 20502.2 | 949.0 | 5413.9 | 477.1 | 5056.6 | 131.6 | 5235.3 | 376.1 | -1.97 | 0.26 | <0,00001 |
| THSD1 | 2117.8 | 76.1 | 4276.2 | 543.6 | 5429.5 | 138.8 | 4852.9 | 717.6 | 1.19 | 2.28 | <0,00001 |
| THY1 | 3777.1 | 243.1 | 15406.3 | 1774.5 | 10549.6 | 791.8 | 12977.9 | 2890.9 | 1.75 | 3.37 | <0,00001 |
| TIGD2 | 2668.0 | 143.7 | 874.6 | 45.9 | 748.0 | 59.5 | 811.3 | 83.7 | -1.71 | 0.31 | <0,00001 |
| TIMP2 | 26541.0 | 651.3 | 9780.9 | 570.0 | 14873.2 | 257.1 | 12327.1 | 2752.5 | -1.09 | 0.47 | <0,00001 |
| TIPARP | 4372.3 | 378.0 | 12424.8 | 797.4 | 6238.4 | 155.8 | 9331.6 | 3349.3 | 1.06 | 2.08 | 0.00018 |
| TIPIN | 754.0 | 25.4 | 2446.0 | 161.5 | 1216.1 | 39.5 | 1831.0 | 666.4 | 1.23 | 2.35 | 0.00001 |
| TK1 | 225.8 | 14.8 | 654.9 | 156.0 | 1000.8 | 31.9 | 827.8 | 212.2 | 1.83 | 3.56 | <0,00001 |
| TKT | 57518.0 | 1233.0 | 22702.1 | 579.8 | 32908.2 | 1084.4 | 27805.1 | 5514.5 | -1.04 | 0.49 | <0,00001 |
| TLR1 | 33.1 | 1.8 | 127.0 | 11.9 | 71.9 | 1.6 | 99.5 | 30.5 | 1.54 | 2.90 | <0,00001 |
| TMCO4 | 205.8 | 9.4 | 578.7 | 50.6 | 430.3 | 21.6 | 504.5 | 87.1 | 1.28 | 2.43 | <0,00001 |
| TMEFF1 | 301.4 | 17.1 | 118.3 | 3.8 | 119.5 | 6.2 | 118.9 | 4.8 | -1.34 | 0.39 | <0,00001 |
| TMEM117 | 2180.0 | 14.9 | 584.0 | 72.7 | 885.0 | 21.6 | 734.5 | 168.4 | -1.55 | 0.34 | <0,00001 |
| TMEM125 | 811.8 | 19.0 | 93.6 | 9.0 | 58.0 | 4.4 | 75.8 | 20.2 | -3.37 | 0.10 | <0,00001 |
| TMEM130 | 1850.5 | 84.2 | 419.6 | 31.9 | 424.2 | 35.5 | 421.9 | 31.3 | -2.13 | 0.23 | <0,00001 |
| TMEM154 | 40.3 | 4.1 | 176.3 | 34.7 | 58.5 | 3.7 | 117.4 | 67.0 | 1.41 | 2.66 | 0.00118 |
| TMEM161B- | 74.1 | 8.4 | 214.2 | 10.7 | 754.2 | 54.7 | 484.2 | 290.9 | 2.44 | 5.43 | <0,00001 |
| TMEM17 | 178.7 | 10.2 | 357.2 | 22.0 | 425.5 | 11.2 | 391.3 | 40.0 | 1.13 | 2.18 | <0,00001 |
| TMEM171 | 50.0 | 2.5 | 148.7 | 11.2 | 171.0 | 12.7 | 159.8 | 16.3 | 1.67 | 3.19 | <0,00001 |
| TMEM187 | 912.6 | 39.4 | 2136.6 | 85.4 | 1674.5 | 86.3 | 1905.6 | 259.5 | 1.06 | 2.08 | <0,00001 |
| TMEM229A | 203.0 | 16.4 | 36.6 | 2.3 | 36.7 | 2.0 | 36.7 | 2.0 | -2.46 | 0.18 | <0,00001 |
| TMEM251 | 621.9 | 21.4 | 298.3 | 6.6 | 274.2 | 13.0 | 286.2 | 16.1 | -1.12 | 0.46 | <0,00001 |
| TMEM45B | 80.3 | 3.3 | 34.9 | 1.5 | 32.2 | 1.9 | 33.6 | 2.2 | -1.25 | 0.42 | <0,00001 |
| TMEM47 | 1092.6 | 50.4 | 2585.4 | 174.0 | 1859.5 | 99.8 | 2222.4 | 409.7 | 1.01 | 2.02 | <0,00001 |
| TMEM51 | 249.1 | 46.9 | 823.3 | 63.5 | 662.2 | 40.3 | 742.7 | 99.2 | 1.56 | 2.96 | <0,00001 |
| TMEM54 | 270.1 | 26.3 | 1322.7 | 59.7 | 562.1 | 35.7 | 942.4 | 409.1 | 1.71 | 3.27 | <0,00001 |
| TMEM74B | 252.6 | 33.7 | 108.8 | 9.1 | 128.3 | 19.4 | 118.6 | 17.5 | -1.08 | 0.47 | <0,00001 |
| TMEM88 | 3373.3 | 225.1 | 1357.2 | 139.0 | 720.2 | 42.5 | 1038.7 | 353.5 | -1.64 | 0.32 | <0,00001 |
| TNFAIP2 | 293.6 | 53.6 | 2289.1 | 42.5 | 335.3 | 32.0 | 1312.2 | 1044.9 | 1.77 | 3.41 | 0.00238 |
| TNFAIP6 | 45.2 | 4.9 | 77.8 | 6.6 | 2314.5 | 178.3 | 1196.1 | 1201.2 | 2.90 | 7.47 | 0.00003 |
| TNFRSF10C | 2365.0 | 58.7 | 42.6 | 1.0 | 34.0 | 2.3 | 38.3 | 4.9 | -5.93 | 0.02 | <0,00001 |
| TNFRSF14 | 8366.5 | 937.7 | 2396.7 | 112.5 | 2599.9 | 380.2 | 2498.3 | 281.4 | -1.73 | 0.30 | <0,00001 |
| TNFSF12 | 1552.8 | 59.4 | 3722.6 | 334.1 | 2963.4 | 207.7 | 3343.0 | 480.7 | 1.10 | 2.14 | <0,00001 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| TNFSF13 | 116.2 | 4.0 | 235.3 | 7.9 | 286.3 | 28.9 | 260.8 | 33.6 | 1.16 | 2.23 | <0,00001 |
| TNFSF4 | 47.9 | 1.9 | 90.5 | 3.0 | 121.2 | 5.4 | 105.9 | 16.9 | 1.13 | 2.19 | <0,00001 |
| TNIK | 766.7 | 46.6 | 298.8 | 8.9 | 317.8 | 18.5 | 308.3 | 16.8 | -1.31 | 0.40 | <0,00001 |
| TNNC1 | 2038.6 | 100.1 | 69.2 | 6.6 | 70.2 | 2.6 | 69.7 | 4.7 | -4.87 | 0.03 | <0,00001 |
| TNNT1 | 331.2 | 20.4 | 5004.5 | 274.9 | 1102.5 | 61.3 | 3053.5 | 2093.9 | 2.79 | 6.90 | <0,00001 |
| TOP3B | 711.4 | 65.3 | 356.5 | 21.5 | 322.7 | 30.9 | 339.6 | 30.6 | -1.06 | 0.48 | <0,00001 |
| TP53INP1 | 17520.8 | 1109.3 | 7507.8 | 304.1 | 9428.9 | 351.7 | 8468.4 | 1071.0 | -1.04 | 0.49 | <0,00001 |
| TPBG | 528.7 | 29.0 | 2760.1 | 145.2 | 697.5 | 20.9 | 1728.8 | 1106.7 | 1.52 | 2.87 | 0.00137 |
| TPP1 | 1479.6 | 96.5 | 588.2 | 12.4 | 869.0 | 55.3 | 728.6 | 154.6 | -1.01 | 0.50 | <0,00001 |
| TPRG1L | 1109.0 | 51.2 | 2901.7 | 198.9 | 2005.5 | 57.3 | 2453.6 | 497.8 | 1.13 | 2.19 | <0,00001 |
| TPRN | 2237.0 | 74.2 | 766.4 | 32.6 | 382.8 | 12.8 | 574.6 | 206.3 | -1.89 | 0.27 | <0,00001 |
| TREM1 | 32.4 | 0.7 | 85.9 | 9.4 | 134.5 | 9.8 | 110.2 | 27.4 | 1.73 | 3.31 | <0,00001 |
| TRIM47 | 2537.5 | 47.8 | 1001.9 | 136.4 | 328.4 | 10.0 | 665.2 | 371.0 | -1.78 | 0.29 | 0.00001 |
| TRIM50 | 284.0 | 27.4 | 89.2 | 8.4 | 106.4 | 5.2 | 97.8 | 11.3 | -1.53 | 0.35 | <0,00001 |
| TRIM55 | 44.1 | 1.2 | 58.2 | 7.1 | 273.9 | 15.1 | 166.0 | 115.8 | 1.66 | 3.16 | 0.00151 |
| TRIM63 | 212.2 | 25.6 | 43.1 | 3.2 | 35.5 | 2.8 | 39.3 | 4.9 | -2.42 | 0.19 | <0,00001 |
| TRIM74 | 358.6 | 44.5 | 101.2 | 3.1 | 178.6 | 7.6 | 139.9 | 41.7 | -1.33 | 0.40 | <0,00001 |
| TRPC4 | 1955.3 | 57.4 | 44.3 | 2.1 | 551.2 | 26.0 | 297.8 | 271.5 | -2.10 | 0.23 | 0.00116 |
| TRPM4 | 225.6 | 5.1 | 426.5 | 15.6 | 763.5 | 22.5 | 595.0 | 181.0 | 1.36 | 2.57 | <0,00001 |
| TRPV2 | 1520.0 | 143.8 | 84.5 | 10.3 | 85.6 | 8.7 | 85.0 | 8.8 | -4.14 | 0.06 | <0,00001 |
| TSEN2 | 1616.4 | 91.6 | 812.7 | 32.1 | 533.7 | 25.5 | 673.2 | 151.6 | -1.24 | 0.42 | <0,00001 |
| TSHZ3 | 428.1 | 6.2 | 1384.4 | 83.6 | 2404.8 | 157.0 | 1894.6 | 557.8 | 2.09 | 4.27 | <0,00001 |
| TSPAN11 | 2191.5 | 194.0 | 50.3 | 1.2 | 166.7 | 3.9 | 108.5 | 62.3 | -3.99 | 0.06 | <0,00001 |
| TSPAN13 | 957.8 | 68.3 | 5652.3 | 930.2 | 2039.9 | 119.5 | 3846.1 | 2026.1 | 1.86 | 3.64 | <0,00001 |
| TTLL4 | 566.2 | 39.3 | 272.9 | 12.0 | 233.6 | 16.5 | 253.3 | 24.9 | -1.16 | 0.45 | <0,00001 |
| TTR | 111.8 | 57.3 | 33.7 | 1.2 | 42.0 | 2.9 | 37.8 | 4.9 | -1.50 | 0.35 | <0,00001 |
| TTTY15 | 316.0 | 23.6 | 30.9 | 1.4 | 30.7 | 0.8 | 30.8 | 1.1 | -3.35 | 0.10 | <0,00001 |
| TTYH3 | 7089.5 | 367.1 | 2815.8 | 222.8 | 3085.1 | 345.8 | 2950.4 | 305.4 | -1.26 | 0.42 | <0,00001 |
| TUBB2B | 1327.7 | 70.9 | 60.7 | 2.6 | 62.1 | 1.9 | 61.4 | 2.2 | -4.43 | 0.05 | <0,00001 |
| TWIST2 | 38.4 | 4.3 | 539.6 | 58.4 | 282.9 | 5.2 | 411.2 | 142.5 | 3.29 | 9.76 | <0,00001 |
| TXNDC15 | 3710.1 | 190.6 | 5072.6 | 306.6 | 12820.8 | 533.5 | 8946.7 | 4161.1 | 1.19 | 2.29 | 0.00073 |
| TYMS | 3276.9 | 228.9 | 882.8 | 43.5 | 1617.6 | 419.2 | 1250.2 | 480.0 | -1.34 | 0.39 | <0,00001 |
| TYMSOS | 364.4 | 20.5 | 135.2 | 6.0 | 158.6 | 15.5 | 146.9 | 16.6 | -1.31 | 0.40 | <0,00001 |
| TYRP1 | 15548.3 | 414.9 | 86.1 | 3.6 | 458.7 | 31.8 | 272.4 | 200.3 | -5.06 | 0.03 | <0,00001 |
| UAP1 | 1644.5 | 111.1 | 6904.5 | 325.9 | 2770.8 | 183.8 | 4837.7 | 2223.1 | 1.47 | 2.77 | 0.00002 |
| UAP1L1 | 1179.4 | 42.9 | 491.5 | 25.5 | 558.6 | 27.5 | 525.1 | 43.5 | -1.17 | 0.45 | <0,00001 |
| UBE2C | 88.5 | 4.5 | 155.9 | 25.7 | 2295.4 | 167.9 | 1225.7 | 1149.0 | 2.70 | 6.50 | 0.00004 |
| UBTD1 | 2188.9 | 96.3 | 5808.8 | 129.4 | 4794.5 | 260.7 | 5301.6 | 574.7 | 1.27 | 2.41 | <0,00001 |
| UCP2 | 894.7 | 75.0 | 330.8 | 52.5 | 389.0 | 43.2 | 359.9 | 54.3 | -1.30 | 0.40 | <0,00001 |
| UNC5D | 640.9 | 21.0 | 34.6 | 2.2 | 35.5 | 2.2 | 35.0 | 2.1 | -4.19 | 0.05 | <0,00001 |
| UQCC3 | 1417.8 | 122.6 | 5234.7 | 103.7 | 3348.8 | 138.0 | 4291.7 | 1014.4 | 1.57 | 2.97 | <0,00001 |
| USP9Y | 80.2 | 8.3 | 30.9 | 1.9 | 30.5 | 1.8 | 30.7 | 1.7 | -1.39 | 0.38 | <0,00001 |
| UST | 65.3 | 1.7 | 314.4 | 6.2 | 129.5 | 10.4 | 221.9 | 99.1 | 1.67 | 3.18 | <0,00001 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| VAMP5 | 1780.8 | 87.8 | 3102.3 | 55.6 | 4267.2 | 150.4 | 3684.8 | 631.5 | 1.04 | 2.05 | <0,00001 |
| VAT1L | 982.5 | 73.3 | 119.4 | 17.9 | 35.5 | 2.7 | 77.5 | 46.4 | -3.35 | 0.10 | <0,00001 |
| VDR | 681.2 | 17.1 | 5615.5 | 464.1 | 2153.7 | 99.7 | 3884.6 | 1876.3 | 2.35 | 5.12 | <0,00001 |
| VEGFC | 662.0 | 10.8 | 3360.9 | 91.3 | 3744.4 | 92.4 | 3552.6 | 221.9 | 2.42 | 5.35 | <0,00001 |
| VEZT | 1135.9 | 72.2 | 2332.0 | 45.0 | 2428.1 | 89.0 | 2380.0 | 83.1 | 1.07 | 2.09 | <0,00001 |
| VLDLR-AS1 | 210.2 | 9.7 | 84.5 | 3.0 | 69.5 | 2.1 | 77.0 | 8.3 | -1.45 | 0.37 | <0,00001 |
| VPS36 | 542.8 | 39.6 | 1090.6 | 63.3 | 1182.9 | 58.4 | 1136.7 | 74.9 | 1.06 | 2.09 | <0,00001 |
| VSTM2L | 158.6 | 6.5 | 795.0 | 81.0 | 740.6 | 36.0 | 767.8 | 64.9 | 2.27 | 4.82 | <0,00001 |
| WAC-AS1 | 1317.0 | 58.2 | 2911.0 | 167.9 | 4189.8 | 252.1 | 3550.4 | 711.7 | 1.41 | 2.66 | <0,00001 |
| WBSCR27 | 196.1 | 3.8 | 130.1 | 9.1 | 53.0 | 1.3 | 91.5 | 41.6 | -1.04 | 0.49 | 0.00323 |
| WEE1 | 1321.8 | 34.1 | 405.5 | 14.2 | 212.3 | 4.7 | 308.9 | 103.7 | -2.03 | 0.24 | <0,00001 |
| WFDC1 | 1519.0 | 133.4 | 51.5 | 6.1 | 208.8 | 24.5 | 130.2 | 85.7 | -3.18 | 0.11 | <0,00001 |
| WFDC3 | 313.2 | 11.4 | 436.1 | 58.9 | 1815.8 | 39.6 | 1125.9 | 738.9 | 1.63 | 3.09 | 0.00078 |
| WNT5B | 488.5 | 42.9 | 10800.0 | 859.5 | 3284.7 | 290.6 | 7042.3 | 4060.8 | 3.50 | 11.29 | <0,00001 |
| WSCD1 | 304.3 | 16.3 | 125.7 | 10.1 | 53.4 | 2.1 | 89.5 | 39.2 | -1.68 | 0.31 | <0,00001 |
| XIST | 30.5 | 1.7 | 6598.5 | 975.2 | 33.0 | 1.0 | 3315.8 | 3567.0 | 2.15 | 4.44 | 0.00551 |
| ZBED2 | 36.9 | 2.6 | 180.6 | 40.1 | 64.8 | 4.7 | 122.7 | 67.3 | 1.60 | 3.03 | 0.00011 |
| ZBED3 | 6094.0 | 152.0 | 2258.5 | 164.7 | 2718.2 | 158.6 | 2488.3 | 287.7 | -1.29 | 0.41 | <0,00001 |
| ZCCHC18 | 300.2 | 15.2 | 131.0 | 2.3 | 137.1 | 19.8 | 134.0 | 13.5 | -1.16 | 0.45 | <0,00001 |
| ZCCHC24 | 260.3 | 18.6 | 608.4 | 40.9 | 1055.7 | 25.4 | 832.1 | 241.1 | 1.64 | 3.11 | <0,00001 |
| ZFP42 | 158.3 | 7.8 | 34.3 | 2.0 | 82.9 | 7.6 | 58.6 | 26.5 | -1.36 | 0.39 | 0.00005 |
| ZHX3 | 1836.7 | 85.9 | 5173.2 | 258.6 | 3464.5 | 146.2 | 4318.9 | 933.8 | 1.22 | 2.32 | <0,00001 |
| ZNF106 | 10031.4 | 838.0 | 4679.5 | 228.2 | 2719.4 | 61.1 | 3699.4 | 1059.1 | -1.40 | 0.38 | <0,00001 |
| ZNF165 | 1505.1 | 81.5 | 361.7 | 32.8 | 243.2 | 16.3 | 302.5 | 67.7 | -2.28 | 0.21 | <0,00001 |
| ZNF300P1 | 514.2 | 60.1 | 204.3 | 28.7 | 287.5 | 10.0 | 245.9 | 48.7 | -1.05 | 0.48 | <0,00001 |
| ZNF469 | 19618.6 | 611.6 | 1720.7 | 167.0 | 7212.7 | 570.2 | 4466.7 | 2961.3 | -1.90 | 0.27 | 0.00007 |
| ZNF503 | 1091.5 | 40.9 | 1872.8 | 254.9 | 6767.0 | 214.7 | 4319.9 | 2625.2 | 1.78 | 3.45 | 0.00006 |
| ZNF521 | 1066.7 | 92.9 | 116.6 | 7.3 | 512.0 | 56.0 | 314.3 | 214.5 | -1.56 | 0.34 | 0.00174 |
| ZPLD1 | 32.6 | 1.3 | 131.0 | 14.0 | 92.6 | 5.3 | 111.8 | 22.7 | 1.76 | 3.39 | <0,00001 |