

Table S5. Differentially expressed proteins between melanoma and melanocytes-derived exo

| Gene names | Protein IDs | t-test Significant T vs C | Log2 ratio T vs C | t-test Significant WM164 vs C | Log2 ratio WM164 vs C | t-test Significant SKMel28 vs C | Log2 ratio SKMel28 vs C | t-test Significant SKMel103 vs C | Log2 ratio SKMel103 vs C |
|------------|-------------|---------------------------|-------------------|-------------------------------|-----------------------|---------------------------------|-------------------------|----------------------------------|--------------------------|
| TNC | P24821 | + | 10.61 | + | 9.31 | + | 10.00 | + | 11.75 |
| HSPG2 | P98160 | + | 9.51 | + | 11.54 | + | 10.30 | + | 7.82 |
| ITGA4 | P13612 | + | 8.57 | + | 9.14 | + | 8.20 | + | 8.45 |
| ITGA6 | P23229 | + | 7.29 | + | 7.14 | + | 6.78 | + | 7.69 |
| HIC2 | Q96JB3 | + | 6.89 | | 0.23 | + | 5.85 | + | 11.52 |
| VCAN | P13611 | + | 6.80 | + | 5.77 | | 1.08 | + | 10.84 |
| EDIL3 | O43854 | + | 6.46 | | -0.41 | | -0.34 | + | 14.67 |
| ANXA1 | P04083 | + | 6.31 | + | 3.77 | + | 7.11 | + | 7.35 |
| PLAUR | Q03405 | + | 5.64 | + | 2.26 | + | 5.14 | + | 7.96 |
| SH3GL1 | Q99961 | + | 5.63 | + | 5.86 | + | 3.76 | + | 6.60 |
| CD55 | P08174 | + | 5.56 | + | 5.94 | + | 5.16 | + | 5.57 |
| TSPAN6 | O43657 | + | 5.52 | + | 7.11 | + | 4.67 | + | 5.07 |
| LGALS3BP | Q08380 | + | 5.38 | + | 6.12 | + | 4.19 | + | 5.64 |
| MCAM | P43121 | + | 5.25 | + | 5.89 | + | 6.34 | + | 4.20 |
| CPNE8 | Q86YQ8 | + | 5.16 | + | 4.43 | + | 6.08 | + | 5.05 |
| CD151 | P48509 | + | 5.08 | + | 6.11 | + | 5.24 | + | 4.37 |
| ITGA2 | P17301 | + | 4.96 | + | 3.06 | + | 5.47 | + | 5.80 |
| SH3BP4 | Q9P0V3 | + | 4.89 | + | 5.12 | + | 5.75 | + | 4.23 |
| SDC4 | P31431 | + | 4.75 | + | 4.05 | + | 2.87 | + | 6.30 |
| PACSIN2 | Q9UNF0 | + | 4.59 | + | 5.29 | + | 5.59 | + | 3.57 |
| PACSIN3 | Q9UKS6 | + | 4.55 | + | 5.22 | + | 4.58 | + | 4.12 |
| HEG1 | Q9ULI3 | + | 4.51 | + | 3.18 | + | 2.76 | + | 6.35 |
| GJC1 | P36383 | + | 4.50 | + | 5.87 | + | 4.54 | + | 3.66 |
| BSG | P35613 | + | 4.38 | + | 5.12 | + | 4.42 | + | 3.91 |
| PVR | P15151 | + | 4.36 | + | 2.46 | + | 4.73 | + | 5.27 |
| NGFR | P08138 | + | 4.29 | | -0.25 | + | 3.03 | + | 7.78 |
| HLA-DRB1 | P01912 | + | 4.26 | + | -1.03 | + | 3.44 | + | 7.93 |
| PTGFRN | Q9P2B2 | + | 4.26 | + | 4.95 | + | 3.56 | + | 4.26 |
| MELTF | P08582 | + | 4.26 | + | 4.46 | + | 4.05 | + | 4.26 |

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|----------|--------|---|------|---|-------|---|-------|---|-------|
| EPHA2 | P29317 | + | 4.25 | | 0.62 | + | 2.17 | + | 7.67 |
| SLC39A14 | Q15043 | + | 4.23 | + | 6.21 | + | 5.40 | + | 2.35 |
| HLA-B | P30462 | + | 4.23 | + | 4.15 | | 1.04 | + | 6.20 |
| SLC44A1 | Q8WWI5 | + | 4.21 | + | 4.93 | + | 3.73 | + | 4.07 |
| HP | P00738 | + | 4.19 | + | 4.17 | + | 3.49 | + | 4.62 |
| HLA-DRA | P01903 | + | 4.16 | + | -1.38 | + | 3.94 | + | 7.62 |
| CD82 | P27701 | + | 4.15 | + | 4.93 | + | 5.19 | + | 3.05 |
| PABPC1 | P11940 | + | 3.99 | | -0.64 | + | 3.68 | + | 6.95 |
| ICAM1 | P05362 | + | 3.97 | + | 8.08 | + | 8.32 | + | -1.10 |
| FMNL2 | Q96PY5 | + | 3.96 | + | 4.18 | + | 3.97 | + | 3.82 |
| HLA-DPB1 | P04440 | + | 3.87 | | 0.54 | + | 3.70 | + | 5.98 |
| SLC16A1 | P53985 | + | 3.86 | + | 4.70 | + | 5.06 | + | 2.63 |
| TFRC | P02786 | + | 3.82 | + | 4.02 | + | 4.24 | + | 3.46 |
| AKAP12 | Q02952 | + | 3.81 | + | -2.59 | + | 3.16 | + | 8.05 |
| AGRN | O00468 | + | 3.81 | + | 4.79 | + | 1.01 | + | 4.90 |
| YBX1 | P67809 | + | 3.80 | | 1.52 | + | 4.25 | + | 4.91 |
| LAMA4 | Q16363 | + | 3.78 | + | 6.63 | + | 6.60 | | 0.38 |
| IGF2R | P11717 | + | 3.73 | + | 4.63 | + | 3.83 | + | 3.14 |
| SRP14 | P37108 | + | 3.69 | | -0.21 | + | 2.93 | + | 6.48 |
| EMILIN2 | Q9BXX0 | + | 3.68 | + | 8.11 | + | 5.24 | | 0.08 |
| TGFBI | Q15582 | + | 3.61 | | -0.40 | | 0.25 | + | 8.03 |
| SH3KBP1 | Q96B97 | + | 3.58 | + | 3.38 | + | 3.58 | + | 3.69 |
| NT5E | P21589 | + | 3.57 | + | 1.48 | + | 4.72 | + | 4.14 |
| SDC1 | P18827 | + | 3.52 | | 0.39 | + | 4.22 | + | 4.97 |
| SLC16A3 | O15427 | + | 3.48 | + | 4.88 | | -0.03 | + | 4.74 |
| SLC1A5 | Q15758 | + | 3.46 | + | 4.07 | + | 4.14 | + | 2.70 |
| SLC43A3 | Q8NBI5 | + | 3.46 | + | 4.34 | + | 4.17 | + | 2.50 |
| GPRC5A | Q8NFJ5 | + | 3.45 | + | 3.98 | | -0.76 | + | 5.66 |
| CDH2 | P19022 | + | 3.41 | + | 3.10 | + | 3.63 | + | 3.47 |
| PXDN | Q92626 | + | 3.38 | | -0.34 | | 0.02 | + | 7.62 |
| HLA-A | P30453 | + | 3.36 | | -0.09 | | 0.08 | + | 7.41 |
| NRP1 | O14786 | + | 3.36 | | 0.54 | | 0.18 | + | 6.96 |
| PTPRG | P23470 | + | 3.35 | + | 5.26 | + | 4.65 | + | 1.43 |
| LDLR | P01130 | + | 3.31 | | 0.38 | | 1.59 | + | 6.09 |
| ITGA3 | P26006 | + | 3.26 | | 1.89 | | -0.26 | + | 6.20 |

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|----------|--------|---|-------------|---|-------|---|-------|---|-------|
| ENPP1 | P22413 | + | 3.23 | + | 5.82 | + | 6.52 | | -0.29 |
| HLA-DRB3 | P79483 | + | 3.17 | | 0.13 | | 0.14 | + | 6.81 |
| TSPAN4 | O14817 | + | 3.15 | + | 4.80 | + | 3.38 | + | 2.02 |
| SIRPA | P78324 | + | 3.14 | + | 5.57 | + | 7.56 | | -0.96 |
| TOM1L1 | O75674 | + | 3.13 | + | 4.37 | + | 3.86 | + | 1.95 |
| NRP2 | O60462 | + | 3.12 | | 0.29 | + | 4.30 | + | 4.11 |
| ITGB1 | P05556 | + | 3.09 | + | 2.42 | + | 2.00 | + | 4.15 |
| CD109 | Q6YHK3 | + | 3.08 | + | 2.58 | + | 4.18 | + | 2.72 |
| LOXL2 | Q9Y4K0 | + | 3.07 | | 1.05 | | -0.16 | + | 6.21 |
| CEP55 | Q53EZ4 | + | 3.04 | + | 4.50 | + | 2.52 | + | 2.48 |
| HIST1H1E | P10412 | + | 3.04 | | 1.04 | | 0.42 | + | 5.81 |
| PAPPA | Q13219 | + | 3.03 | | 0.68 | | 1.01 | + | 5.66 |
| FAM234A | Q9H0X4 | + | 3.02 | + | 3.51 | + | 2.95 | + | 2.78 |
| ITCH | Q96J02 | + | 3.02 | + | 2.42 | + | 2.32 | + | 3.79 |
| NOTCH2 | Q04721 | + | 2.99 | + | 3.24 | + | 5.08 | + | 1.60 |
| PRSS3P2 | Q8NHM4 | + | 2.97 | | 2.52 | | 1.03 | + | 4.41 |
| LAMC1 | P11047 | + | 2.96 | + | 6.10 | + | 5.06 | | -0.19 |
| HLA-DPA1 | P20036 | + | 2.93 | | 0.44 | | -0.58 | + | 6.52 |
| PTX3 | P26022 | + | 2.90 | | -0.10 | | 0.01 | + | 6.44 |
| MYO1B | O43795 | + | 2.89 | + | 3.33 | + | 4.45 | | 1.68 |
| IL1RAP | Q9NPH3 | + | 2.88 | + | 4.09 | + | 3.40 | + | 1.84 |
| LSAMP | Q13449 | + | 2.88 | + | 2.40 | + | 1.07 | + | 4.24 |
| GRB2 | P62993 | + | 2.87 | + | 2.21 | + | 2.72 | + | 3.35 |
| MPZL1 | O95297 | + | 2.85 | + | 4.59 | + | 3.45 | + | 1.44 |
| L1CAM | P32004 | + | 2.84 | + | 3.79 | + | 3.34 | + | 1.96 |
| SLC12A2 | P55011 | + | 2.83 | + | 4.67 | + | 4.24 | | 0.89 |
| LAMB1 | P07942 | + | 2.82 | + | 5.82 | + | 5.29 | | -0.46 |
| ADAM9 | Q13443 | + | 2.81 | + | 3.12 | + | 2.49 | + | 2.82 |
| KIRREL1 | Q96J84 | + | 2.79 | | 1.93 | + | 4.49 | + | 2.29 |
| VPS37B | Q9H9H4 | + | 2.79 | + | 2.94 | + | 2.97 | + | 2.59 |
| CHMP5 | Q9NZZ3 | + | 2.79 | + | 4.79 | + | 4.11 | | 0.80 |
| MITD1 | Q8WV92 | + | 2.78 | + | 4.49 | + | 3.73 | | 1.20 |
| COTL1 | Q14019 | + | 2.78 | + | 3.02 | + | 3.52 | + | 2.20 |
| PTK7 | Q13308 | + | 2.76 | + | 2.71 | + | 3.69 | + | 2.24 |
| IMPDH2 | P12268 | + | 2.75 | + | 2.21 | + | 1.67 | + | 3.71 |

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|---------|--------|---|------|---|-------|---|-------|---|-------|
| CHMP4B | Q9H444 | + | 2.71 | + | 4.52 | + | 3.66 | | 1.04 |
| PTPRJ | Q12913 | + | 2.70 | + | 3.95 | + | 4.28 | | 1.01 |
| MVB12B | Q9H7P6 | + | 2.70 | + | 4.30 | | -0.03 | + | 3.38 |
| CD63 | P08962 | + | 2.69 | + | 3.82 | + | 3.54 | | 1.50 |
| ALB | P02768 | | 2.68 | | 0.30 | + | 11.46 | | -1.16 |
| CHMP4A | Q9BY43 | + | 2.68 | + | 3.81 | + | 2.37 | + | 2.19 |
| DMBT1 | Q9UGM3 | + | 2.63 | + | 2.40 | | 0.72 | + | 3.93 |
| PRNP | P04156 | + | 2.60 | | -0.36 | + | 6.72 | + | 1.90 |
| SLC5A6 | Q9Y289 | + | 2.58 | + | 2.93 | + | 3.50 | + | 1.82 |
| CD97 | P48960 | + | 2.58 | | 1.42 | + | 3.13 | + | 2.95 |
| MVB12A | Q96EY5 | + | 2.57 | + | 2.74 | + | 2.68 | + | 2.41 |
| PTPN23 | Q9H3S7 | + | 2.56 | + | 3.50 | + | 2.24 | + | 2.20 |
| HLA-A | P16190 | + | 2.56 | | 0.22 | | -0.37 | + | 5.72 |
| TENM3 | Q9P273 | + | 2.54 | + | 2.14 | + | 2.77 | + | 2.64 |
| PLAT | P00750 | + | 2.53 | + | 2.87 | + | 1.97 | + | 2.67 |
| SNAP23 | O00161 | + | 2.52 | + | 3.86 | + | 2.91 | | 1.47 |
| SFRP1 | Q8N474 | + | 2.51 | | 0.11 | + | 2.49 | + | 3.96 |
| VPS28 | Q9UK41 | + | 2.51 | + | 3.01 | + | 2.42 | + | 2.26 |
| ITGB5 | P18084 | + | 2.46 | | 1.18 | + | 3.21 | + | 2.79 |
| PROCR | Q9UNN8 | + | 2.45 | | -0.55 | + | 4.07 | + | 3.29 |
| SVIP | Q8NHG7 | + | 2.44 | + | 1.45 | + | 2.98 | + | 2.72 |
| ROR1 | Q01973 | + | 2.44 | + | 5.04 | + | 3.49 | | 0.25 |
| AFP | P02771 | + | 2.43 | + | 3.21 | | 0.42 | + | 3.16 |
| JCHAIN | P01591 | + | 2.42 | + | 1.89 | + | 1.76 | + | 3.14 |
| CD46 | P15529 | + | 2.42 | + | 2.44 | + | 2.02 | + | 2.65 |
| GPC1 | P35052 | + | 2.41 | | 0.29 | + | 3.12 | + | 3.26 |
| TPT1 | P13693 | + | 2.37 | | 2.42 | | 2.46 | + | 2.28 |
| GNG12 | Q9UBI6 | + | 2.36 | + | 2.40 | + | 2.48 | + | 2.26 |
| PABPC4 | Q13310 | + | 2.35 | + | -1.92 | + | 2.46 | + | 4.85 |
| ALDH1A3 | P47895 | + | 2.33 | | -0.06 | + | 2.25 | + | 3.81 |
| SERINC3 | Q13530 | + | 2.32 | + | 3.92 | + | 1.99 | | 1.56 |
| SLC26A2 | P50443 | + | 2.32 | + | 4.17 | + | 3.39 | | 0.56 |
| JAM3 | Q9BX67 | + | 2.31 | + | 1.74 | + | 3.38 | + | 2.02 |
| ANPEP | P15144 | + | 2.31 | | 0.27 | | 0.17 | + | 4.82 |

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|---------|--------|---|-------------|---|-------|---|-------|---|-------|
| PTPRF | P10586 | + | 2.30 | | 1.33 | + | 2.50 | + | 2.77 |
| CPNE1 | Q99829 | + | 2.28 | + | 2.62 | + | 2.88 | + | 1.73 |
| FZD7 | O75084 | + | 2.28 | + | 4.48 | + | 3.46 | | 0.25 |
| TUBA1C | Q9BQE3 | + | 2.27 | | 1.26 | + | 3.14 | + | 2.36 |
| PSCA | O43653 | + | 2.27 | + | 5.12 | + | 2.94 | | 0.15 |
| RRAS2 | P62070 | + | 2.26 | + | 1.60 | + | 2.33 | + | 2.62 |
| CHMP2B | Q9UQN3 | + | 2.26 | + | 4.88 | + | 3.45 | | -0.02 |
| MYO1E | Q12965 | + | 2.25 | + | 1.76 | + | 2.19 | + | 2.59 |
| LHFPL2 | Q6ZUX7 | + | 2.25 | + | 2.49 | + | 2.15 | + | 2.16 |
| CEACAM1 | P13688 | | 2.25 | + | 5.10 | + | 6.13 | + | -1.80 |
| MIF | P14174 | + | 2.23 | + | 3.50 | + | 3.34 | | 0.80 |
| EPHA3 | P29320 | + | 2.23 | + | 6.67 | + | 2.71 | | -0.72 |
| ECM1 | Q16610 | + | 2.22 | + | 5.02 | + | 2.96 | | 0.10 |
| F11R | Q9Y624 | + | 2.22 | + | 4.05 | + | 4.17 | | -0.06 |
| CD276 | Q5ZPR3 | + | 2.20 | + | 2.61 | + | 2.68 | + | 1.66 |
| CDH13 | P55290 | | 2.19 | | 0.16 | + | -1.78 | + | 5.79 |
| COL18A1 | P39060 | + | 2.18 | | -0.23 | | -0.17 | + | 5.03 |
| RALA | P11233 | + | 2.16 | + | 2.51 | + | 2.17 | + | 1.95 |
| GJA1 | P17302 | + | 2.16 | | -0.15 | | -0.81 | + | 5.33 |
| GNAI3 | P08754 | + | 2.16 | + | 2.62 | + | 2.93 | + | 1.42 |
| GYPC | P04921 | | 2.12 | + | 4.86 | + | 5.38 | | -1.47 |
| CHMP2A | O43633 | + | 2.11 | + | 2.89 | + | 3.05 | | 1.08 |
| SEMA7A | O75326 | + | 2.10 | | -0.03 | | 0.32 | + | 4.45 |
| RAP2C | Q9Y3L5 | + | 2.10 | + | 3.54 | + | 1.99 | + | 1.30 |
| ZDHHC5 | Q9C0B5 | + | 2.10 | | 1.83 | | 2.28 | + | 2.15 |
| CLDND1 | Q9NY35 | + | 2.07 | + | 2.22 | + | 2.02 | + | 2.01 |
| DNAJC7 | Q99615 | + | 2.07 | + | 4.17 | + | 2.39 | | 0.61 |
| SCRIB | Q14160 | + | 2.06 | + | 3.35 | + | 2.67 | | 0.92 |
| GIPC1 | O14908 | + | 2.05 | + | 2.72 | + | 3.94 | | 0.51 |
| SLC5A3 | P53794 | + | 2.02 | + | 6.43 | | 0.16 | | 0.49 |
| SLC4A7 | Q9Y6M7 | + | 2.01 | + | 2.56 | + | 2.49 | | 1.38 |
| CHMP1A | Q9HD42 | + | 2.00 | + | 5.72 | + | 1.00 | | 0.36 |
| NRAS | P01111 | + | 2.00 | | 2.14 | + | 2.67 | | 1.51 |
| NTM | Q9P121 | + | 1.99 | | 0.40 | | 0.42 | + | 3.89 |
| KPNA2 | P52292 | + | 1.99 | + | 2.77 | + | 1.99 | + | 1.52 |

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|--------------|--------|---|------|---|-------|---|-------|---|-------|
| CPNE3 | O75131 | + | 1.96 | + | 3.45 | + | 2.93 | | 0.49 |
| MARCKSL 1 | P49006 | + | 1.96 | + | 2.45 | + | 2.53 | + | 1.32 |
| RRM1 | P23921 | + | 1.95 | + | 1.92 | | -0.08 | + | 3.19 |
| GNB4 | Q9HAV0 | + | 1.94 | | 1.57 | | 1.81 | + | 2.24 |
| TSG101 | Q99816 | + | 1.94 | + | 2.09 | | 1.59 | + | 2.06 |
| ITGA5 | P08648 | | 1.94 | | 0.44 | | -1.92 | + | 5.15 |
| TSPAN14 | Q8NG11 | + | 1.93 | + | 3.26 | + | 1.89 | + | 1.16 |
| CTHRC1 | Q96CG8 | + | 1.93 | + | 3.97 | + | 2.53 | | 0.34 |
| PRSS23 | O95084 | + | 1.92 | | 0.62 | | 0.75 | + | 3.40 |
| DLG1 | Q12959 | + | 1.91 | | 2.02 | + | 2.57 | | 1.45 |
| ITGB8 | P26012 | + | 1.91 | | -0.56 | + | 2.72 | + | 2.90 |
| SLC7A1 | P30825 | + | 1.90 | + | 3.88 | | 1.44 | | 1.00 |
| DAG1 | Q14118 | + | 1.90 | | 1.35 | + | 3.45 | | 1.29 |
| UBTD1 | Q9HAC8 | + | 1.89 | + | 3.23 | + | 2.62 | | 0.65 |
| LSR | Q86X29 | + | 1.88 | + | 5.34 | + | 1.24 | | 0.19 |
| PPFIBP1 | Q86W92 | + | 1.88 | + | 1.89 | + | 4.76 | | 0.14 |
| RALB | P11234 | + | 1.87 | + | 2.80 | + | 2.46 | | 0.96 |
| ITGAV | P06756 | + | 1.85 | + | 1.90 | + | 2.82 | + | 1.23 |
| TSPAN3 | O60637 | + | 1.84 | + | 2.54 | + | 4.26 | | -0.02 |
| SNX33 | Q8WV41 | + | 1.84 | | 0.19 | | -0.01 | + | 3.94 |
| BAG5 | Q9UL15 | + | 1.83 | + | 4.19 | + | 2.46 | | 0.04 |
| HIST1H2AJ | Q99878 | + | 1.82 | | 1.77 | | 0.57 | + | 2.60 |
| DIP2A | Q14689 | + | 1.81 | + | 3.59 | + | 1.39 | + | 1.00 |
| PLEKHB2 | Q96CS7 | + | 1.81 | + | 3.48 | + | 3.24 | | -0.05 |
| LY6E | Q16553 | | 1.80 | + | 5.14 | | 2.91 | | -0.86 |
| PLSCR3 | Q9NRY6 | + | 1.80 | + | 2.30 | | -0.28 | + | 2.75 |
| FKBP1A | P62942 | + | 1.80 | | 1.75 | | 2.63 | | 1.33 |
| DCBLD2 | Q96PD2 | + | 1.79 | + | -1.37 | | 0.55 | + | 4.44 |
| ITGB3 | P05106 | + | 1.78 | + | 2.53 | + | 2.39 | + | 0.96 |
| APOH | P02749 | + | 1.77 | + | 1.91 | | 0.28 | + | 2.58 |
| TG | P01266 | + | 1.74 | + | 2.14 | | -0.50 | + | 2.85 |
| ADGRG1 | Q9Y653 | + | 1.74 | + | 3.18 | + | 3.25 | | -0.04 |
| HIST1H1B | P16401 | | 1.74 | | -0.25 | | -0.10 | + | 4.04 |
| STK10 | O94804 | + | 1.73 | | 1.73 | + | 3.19 | | 0.86 |

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|---------|------------|---|------|---|-------|---|-------|---|-------|
| CNP | P09543 | + | 1.73 | + | 2.41 | + | 2.76 | | 0.71 |
| ITGA1 | P56199 | + | 1.71 | | 1.14 | + | 3.63 | | 0.90 |
| RAB35 | Q15286 | + | 1.71 | + | 1.45 | + | 1.52 | + | 1.98 |
| SLC2A3 | P11169 | + | 1.71 | + | 3.87 | + | 1.55 | | 0.51 |
| H2AFV | Q71UI9 | + | 1.67 | + | 2.38 | | 0.94 | | 1.67 |
| IGF2BP2 | Q9Y6M1 | + | 1.67 | | -0.32 | | 0.92 | + | 3.30 |
| KRT6A | P02538 | + | 1.66 | | 0.79 | | 2.51 | | 1.68 |
| SRP9 | P49458 | + | 1.66 | | 0.38 | | -0.44 | + | 3.70 |
| ZC3HAV1 | Q7Z2W4 | + | 1.66 | + | 1.30 | + | 1.71 | + | 1.86 |
| CAD | P27708 | + | 1.66 | + | 2.60 | + | 1.48 | + | 1.21 |
| TAOK1 | Q7L7X3 | + | 1.64 | + | 1.86 | + | 1.90 | + | 1.34 |
| PDCD6IP | Q8WUM 4 | + | 1.63 | + | 2.86 | + | 1.55 | + | 0.94 |
| NECTIN3 | Q9NQS3 | + | 1.63 | | 0.08 | | -0.61 | + | 3.90 |
| PRKG2 | Q13237 | + | 1.63 | + | 3.38 | + | 2.41 | | 0.10 |
| FASN | P49327 | + | 1.62 | + | 2.28 | + | 1.55 | + | 1.26 |
| CLTA | P09496 | + | 1.60 | + | 2.02 | + | 2.26 | | 0.96 |
| GPRC5B | Q9NZH0 | + | 1.60 | + | 2.02 | + | 2.68 | | 0.71 |
| DSG2 | Q14126 | + | 1.59 | | 0.07 | + | 3.11 | + | 1.59 |
| SLC29A1 | Q99808 | + | 1.57 | + | 1.96 | + | 1.75 | + | 1.22 |
| HTRA1 | Q92743 | + | 1.56 | + | 1.99 | + | 0.63 | + | 1.87 |
| HLA-A | P13746 | + | 1.56 | | 0.92 | + | 2.28 | + | 1.52 |
| CPM | P14384 | + | 1.56 | + | 2.26 | + | 3.88 | | -0.25 |
| SLC20A1 | Q8WUM 9 | + | 1.56 | + | 2.32 | + | 2.20 | | 0.72 |
| GAPDH | P04406 | + | 1.56 | + | 2.05 | + | 1.53 | + | 1.28 |
| HLA-C | P10321 | + | 1.56 | + | 3.03 | + | 1.25 | | 0.86 |
| RAB13 | P51153 | + | 1.54 | + | 2.21 | | 0.91 | + | 1.52 |
| ANXA11 | P50995 | + | 1.54 | + | 2.40 | + | 2.06 | + | 0.70 |
| YES1 | P07947 | + | 1.53 | | 1.37 | + | 2.92 | | 0.79 |
| MMP14 | P50281 | + | 1.52 | | 1.21 | | 1.51 | + | 1.72 |
| B2M | P61769 | + | 1.51 | | 1.36 | + | 2.18 | | 1.19 |
| PLXNA1 | Q9UIW2 | + | 1.50 | | 1.98 | | 2.11 | | 0.85 |
| SLC6A8 | P48029 | + | 1.48 | + | 2.76 | + | 2.78 | | -0.07 |
| FABP5 | Q01469 | | 1.47 | | 2.83 | | 3.53 | | -0.58 |
| RHOG | P84095 | + | 1.47 | | 1.03 | + | 1.53 | + | 1.70 |

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|---------------|------------|---|------|---|-------|---|-------|---|-------|
| ADAM10 | O14672 | + | 1.47 | + | 2.68 | + | 1.30 | + | 0.84 |
| TUBA4A | P68366 | + | 1.47 | + | 2.16 | | -0.74 | + | 2.38 |
| NME2 | P22392 | + | 1.47 | | 1.75 | + | 2.41 | | 0.73 |
| UEVLD | Q8IX04 | | 1.46 | + | 3.22 | + | 3.50 | | -0.82 |
| KRAS | P01116 | + | 1.45 | | 1.43 | | 1.63 | | 1.36 |
| HIST2H2B E | Q16778 | + | 1.45 | | 1.37 | | 0.35 | + | 2.15 |
| RAP2A | P10114 | + | 1.44 | + | 3.38 | + | 2.08 | | -0.11 |
| TBC1D10A | Q9BXI6 | + | 1.43 | + | 3.84 | + | 2.00 | | -0.35 |
| DNAJA2 | O60884 | + | 1.43 | + | 3.33 | + | 1.52 | | 0.23 |
| NEDD4 | P46934 | + | 1.42 | + | 2.12 | | 0.87 | + | 1.33 |
| MME | P08473 | | 1.40 | | 1.03 | + | 3.23 | | 0.52 |
| UBE2V2 | Q15819 | + | 1.38 | + | 2.40 | + | 2.22 | | 0.28 |
| ATXN2L | Q8WWM 7 | + | 1.37 | | 0.08 | | -0.66 | + | 3.35 |
| ILF3 | Q12906 | | 1.36 | | -0.65 | | -0.09 | + | 3.43 |
| ARF1 | P84077 | + | 1.34 | + | 2.60 | | 0.02 | + | 1.38 |
| ACSL3 | O95573 | + | 1.34 | + | 2.46 | | 0.68 | + | 1.06 |
| RAC1 | P63000 | + | 1.33 | + | 1.35 | + | 1.18 | + | 1.42 |
| RAP1B | P61224 | + | 1.33 | | 0.94 | | 1.77 | | 1.31 |
| SLC2A1 | P11166 | + | 1.33 | | 0.40 | + | 0.99 | + | 2.10 |
| ENG | P17813 | + | 1.33 | | 0.84 | + | 2.11 | | 1.15 |
| CD81 | P60033 | + | 1.33 | + | 2.24 | + | 2.15 | | 0.28 |
| LRP1 | Q07954 | + | 1.33 | | 1.21 | | -0.89 | + | 2.72 |
| MARCKS | P29966 | + | 1.32 | | 0.73 | + | 2.04 | + | 1.25 |
| MOV10 | Q9HCE1 | + | 1.32 | | -0.53 | + | 2.41 | + | 1.79 |
| CSF2RA | P15509 | + | 1.31 | + | 2.96 | + | 1.06 | | 0.47 |
| FAT1 | Q14517 | + | 1.31 | + | 2.26 | + | 2.70 | | -0.09 |
| SLC38A2 | Q96QD8 | | 1.30 | | 2.14 | | 2.45 | | 0.12 |
| ACSL4 | O60488 | + | 1.30 | | 0.68 | + | 1.88 | + | 1.33 |
| SYPL1 | Q16563 | | 1.30 | | 1.59 | + | 3.81 | | -0.38 |
| STAMBP | O95630 | | 1.29 | + | 3.48 | + | 2.32 | | -0.63 |
| MPP6 | Q9NZW5 | + | 1.29 | | 1.48 | + | 2.04 | | 0.73 |
| IGF1R | P08069 | + | 1.28 | + | 1.59 | + | 2.78 | | 0.20 |
| FGG | P02679 | | 1.27 | | 1.25 | | -0.86 | + | 2.56 |
| CD59 | P13987 | + | 1.27 | | 0.74 | + | 1.50 | + | 1.45 |

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|----------|--------|---|------|---|-------|---|-------|---|-------|
| ABI1 | Q8IZP0 | | 1.27 | | 0.23 | | 0.89 | + | 2.13 |
| TBCA | O75347 | + | 1.27 | + | 1.99 | + | 2.65 | | 0.01 |
| PCBP2 | Q15366 | + | 1.27 | + | -0.83 | + | 0.60 | + | 2.93 |
| RAB22A | Q9UL26 | + | 1.26 | | 1.35 | | 1.52 | | 1.06 |
| BROX | Q5VW32 | + | 1.26 | + | 2.04 | | 1.23 | | 0.82 |
| BASP1 | P80723 | | 1.26 | | -2.36 | | -1.23 | + | 4.92 |
| SDCBP | O00560 | + | 1.25 | + | 3.11 | + | 2.05 | | -0.34 |
| DNAJA1 | P31689 | + | 1.25 | + | 3.14 | + | 1.44 | | 0.01 |
| GART | P22102 | + | 1.24 | | 1.23 | | 1.36 | | 1.17 |
| KIF23 | Q02241 | | 1.24 | + | 2.79 | + | 2.38 | | -0.38 |
| PLXNB2 | O15031 | | 1.23 | | 1.25 | | 1.27 | | 1.18 |
| DDX3X | O00571 | + | 1.22 | | 0.53 | | 1.26 | + | 1.61 |
| VPS4A | Q9UN37 | + | 1.22 | + | 2.75 | + | 1.71 | | 0.01 |
| CHMP1B | Q7LBR1 | | 1.22 | + | 2.76 | + | 3.33 | | -0.97 |
| GLO1 | Q04760 | + | 1.21 | | 0.48 | | 1.84 | | 1.28 |
| CPSF6 | Q16630 | | 1.20 | | -0.42 | | -0.26 | + | 3.05 |
| ADGRG6 | Q86SQ4 | + | 1.20 | + | 2.10 | + | 2.63 | | -0.20 |
| ANO6 | Q4KMQ2 | + | 1.20 | | 0.73 | + | 2.45 | | 0.73 |
| ULBP3 | Q9BZM4 | + | 1.19 | | 0.44 | | -0.23 | + | 2.50 |
| PDCD6 | O75340 | + | 1.19 | + | 1.35 | + | 1.33 | + | 1.02 |
| ENO1 | P06733 | + | 1.19 | + | 1.35 | + | 2.68 | | 0.20 |
| ALCAM | Q13740 | | 1.19 | | -2.54 | | -0.11 | + | 4.21 |
| RELL1 | Q8IUW5 | + | 1.19 | + | 2.63 | + | 2.26 | | -0.32 |
| PITPNB | P48739 | + | 1.18 | + | 1.80 | + | 2.09 | | 0.26 |
| TUBB6 | Q9BUF5 | | 1.18 | | -0.88 | | 1.23 | + | 2.38 |
| TRIP10 | Q15642 | | 1.18 | + | -1.27 | | -0.09 | + | 3.40 |
| SLC39A10 | Q9ULF5 | + | 1.17 | | -0.01 | + | 1.89 | + | 1.45 |
| NAP1L1 | P55209 | + | 1.16 | | 0.53 | | 1.28 | + | 1.47 |
| ST13 | P50502 | + | 1.15 | + | 3.47 | + | 1.71 | + | -0.57 |
| NCSTN | Q92542 | | 1.14 | | 1.04 | | 2.10 | | 0.63 |
| RAB34 | Q9BZG1 | + | 1.14 | | 1.30 | | 0.18 | + | 1.61 |
| MFGE8 | Q08431 | + | 1.13 | + | 1.24 | + | 2.32 | | 0.36 |
| PICALM | Q13492 | + | 1.12 | + | 2.51 | + | 1.81 | | -0.12 |
| SERINC5 | Q86VE9 | | 1.12 | + | 3.71 | + | 3.16 | + | -1.66 |
| TRPV4 | Q9HBA0 | | 1.12 | + | 0.95 | + | 4.09 | | -0.56 |

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|---------------|--------|---|------|---|-------|---|-------|---|-------|
| EVA1A | Q9H8M9 | | 1.11 | + | 3.54 | + | 3.44 | + | -1.75 |
| HSP90AB2 P | Q58FF8 | | 1.11 | | 0.51 | | 1.96 | | 0.95 |
| VTA1 | Q9NP79 | | 1.11 | + | 3.36 | + | 2.62 | | -1.15 |
| SLC6A6 | P31641 | + | 1.11 | | 0.99 | + | 1.48 | | 0.95 |
| BANF1 | O75531 | | 1.10 | + | 1.86 | | -0.78 | | 1.78 |
| TAOK3 | Q9H2K8 | + | 1.10 | | 0.18 | + | 3.21 | | 0.38 |
| CD99 | P14209 | | 1.09 | + | 2.35 | + | 2.98 | | -0.79 |
| ANXA2 | P07355 | + | 1.09 | | 0.59 | + | 1.60 | + | 1.09 |
| STUB1 | Q9UNE7 | | 1.09 | + | 2.74 | | 1.06 | | 0.11 |
| EEF1B2 | P24534 | | 1.08 | | 0.91 | + | 2.63 | | 0.25 |
| ARF4 | P18085 | + | 1.07 | | 0.65 | | 0.50 | + | 1.65 |
| CXADR | P78310 | + | 1.06 | + | 2.28 | | 0.25 | | 0.83 |
| CFL2 | Q9Y281 | + | 1.06 | | 1.25 | | 1.15 | | 0.90 |
| MAGED2 | Q9UNF1 | + | 1.06 | + | 1.40 | + | 1.93 | | 0.34 |
| MYL12A | P19105 | | 1.06 | | 1.00 | + | 2.12 | | 0.45 |
| TSPAN9 | O75954 | | 1.06 | + | 5.05 | + | 2.11 | + | -1.97 |
| INCENP | Q9NQS7 | + | 1.06 | + | 2.72 | + | 1.14 | | 0.01 |
| CD44 | P16070 | + | 1.05 | | 0.64 | + | 1.75 | | 0.88 |
| CD2AP | Q9Y5K6 | + | 1.03 | | 1.48 | | 1.50 | | 0.49 |
| VPS4B | O75351 | + | 1.03 | + | 1.36 | + | 1.94 | | 0.28 |
| MDK | P21741 | | 1.03 | | -0.41 | | -0.32 | + | 2.70 |
| IGSF8 | Q969P0 | | 1.02 | + | 3.22 | + | 1.85 | + | -0.80 |
| ZYX | Q15942 | + | 1.02 | | 0.07 | + | 1.01 | + | 1.59 |
| UBA52 | P62987 | + | 1.01 | + | 1.73 | | 0.95 | | 0.61 |
| CTTN | Q14247 | | 1.00 | + | 2.85 | | 0.87 | | -0.03 |
| RANBP1 | P43487 | | 1.00 | | 1.34 | | 1.92 | | 0.23 |
| DAAM2 | Q86T65 | | 1.00 | | 0.99 | + | 2.36 | | 0.18 |
| SRC | P12931 | + | 0.99 | | 0.20 | + | 1.61 | + | 1.10 |
| LIN7C | Q9NUP9 | + | 0.99 | + | 1.80 | + | 1.89 | | -0.03 |
| CALM | P62158 | + | 0.99 | | 1.18 | | 1.70 | | 0.44 |
| ATRN | O75882 | | 0.98 | + | 2.24 | + | 2.46 | | -0.66 |
| TUBB8 | Q3ZCM7 | | 0.97 | | 1.16 | | 1.59 | | 0.48 |
| CD47 | Q08722 | | 0.96 | | 1.21 | | 0.10 | | 1.33 |
| PTTG1IP | P53801 | | 0.96 | | 1.90 | | 1.86 | | -0.15 |

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|----------|--------|---|------|---|-------|---|-------|---|-------|
| HEXB | P07686 | + | 0.95 | + | 1.95 | + | 0.95 | | 0.35 |
| DOCK10 | Q96BY6 | | 0.93 | + | 1.52 | + | 2.87 | | -0.58 |
| PDIA4 | P13667 | + | 0.93 | | 0.09 | + | 2.21 | | 0.67 |
| NCKAP1 | Q9Y2A7 | | 0.92 | | 0.17 | | 0.91 | | 1.38 |
| ATP1B3 | P54709 | | 0.91 | | 1.41 | + | 2.10 | | -0.10 |
| CHMP3 | Q9Y3E7 | | 0.91 | + | 2.85 | + | 1.87 | + | -0.83 |
| CAB39 | Q9Y376 | + | 0.90 | | 1.07 | | 0.69 | | 0.92 |
| ALDH16A1 | Q8IZ83 | | 0.90 | + | 2.28 | | 0.61 | | 0.25 |
| CDC37 | Q16543 | | 0.90 | | 0.30 | | 2.07 | | 0.56 |
| NUDC | Q9Y266 | + | 0.90 | | 0.68 | + | 1.97 | | 0.39 |
| PSMA4 | P25789 | | 0.89 | | 0.65 | | 0.23 | | 1.43 |
| COL12A1 | Q99715 | | 0.89 | + | -1.81 | + | -1.75 | + | 4.10 |
| SNX9 | Q9Y5X1 | | 0.88 | | 1.03 | | 1.64 | | 0.34 |
| CNRIP1 | Q96F85 | | 0.87 | + | 1.48 | + | 1.83 | | -0.06 |
| SMS | P52788 | | 0.87 | | 1.43 | | 1.30 | | 0.28 |
| CALU | O43852 | | 0.87 | | 0.37 | + | 3.70 | | -0.53 |
| SQSTM1 | Q13501 | | 0.87 | + | 2.19 | + | 4.05 | + | -1.84 |
| STAM2 | O75886 | | 0.87 | + | 2.30 | | 0.92 | | -0.03 |
| PRDX6 | P30041 | | 0.86 | | 1.00 | + | 2.28 | | -0.07 |
| RPL23A | P62750 | | 0.86 | | 0.27 | + | 2.00 | | 0.54 |
| EHD4 | Q9H223 | + | 0.86 | | 1.18 | | 0.64 | | 0.80 |
| SCAMP4 | Q969E2 | | 0.85 | + | 2.84 | | -1.44 | | 1.04 |
| BAIAP2L1 | Q9UHR4 | + | 0.85 | | 0.54 | + | 2.24 | | 0.20 |
| APOB | P04114 | | 0.85 | + | -2.83 | | 0.22 | + | 3.44 |
| MAPRE1 | Q15691 | + | 0.84 | | 0.31 | + | 1.49 | | 0.77 |
| ATP2B1 | P20020 | | 0.84 | | 1.29 | | 1.21 | | 0.34 |
| NPTN | Q9Y639 | + | 0.83 | | 0.75 | + | 1.48 | | 0.49 |
| FLOT2 | Q14254 | + | 0.83 | + | 1.54 | + | 1.03 | | 0.29 |
| SLC23A2 | Q9UGH3 | | 0.83 | + | 2.20 | + | 3.33 | | -1.50 |
| EIF5A | P63241 | | 0.82 | | 1.16 | | 1.42 | | 0.26 |
| CACYBP | Q9HB71 | | 0.82 | | 1.33 | + | 1.88 | | -0.12 |
| OTUD7B | Q6GQQ9 | + | 0.82 | + | 1.53 | | 0.59 | | 0.53 |
| S100B | P04271 | | 0.82 | | 1.86 | + | 2.54 | | -0.84 |
| ABCC1 | P33527 | | 0.80 | | 1.02 | + | 2.00 | | -0.05 |

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|----------|--------|---|------|---|-------|---|-------|---|-------|
| CDC42 | P60953 | + | 0.80 | | 0.03 | | 0.59 | + | 1.38 |
| SDC2 | P34741 | + | 0.80 | + | 1.53 | + | 1.83 | | -0.27 |
| GLRX3 | O76003 | | 0.79 | | 0.67 | + | 2.15 | | 0.04 |
| NCS1 | P62166 | | 0.78 | | -1.38 | | 1.50 | + | 1.65 |
| LYN | P07948 | | 0.78 | + | 2.04 | | 0.63 | | 0.11 |
| S100A1 | P23297 | | 0.77 | + | 1.71 | | 1.07 | | 0.03 |
| HNRNPL | P14866 | + | 0.76 | | 0.42 | | -0.02 | + | 1.44 |
| ESYT1 | Q9BSJ8 | | 0.76 | + | 1.66 | + | 1.47 | | -0.22 |
| IGLL5 | B9A064 | | 0.76 | | -0.28 | + | 2.81 | | 0.14 |
| GNB2 | P62879 | + | 0.75 | | 0.82 | + | 1.50 | | 0.27 |
| ABCC4 | O15439 | | 0.75 | | 0.82 | + | 1.87 | | 0.04 |
| GNB1 | P62873 | + | 0.75 | + | 1.20 | + | 1.64 | | -0.06 |
| KRT14 | P02533 | | 0.75 | | -0.08 | | 1.09 | | 1.04 |
| IST1 | P53990 | | 0.74 | + | 2.18 | | 1.77 | | -0.75 |
| AHSG | P02765 | | 0.72 | + | 0.92 | | -0.59 | + | 1.38 |
| STX4 | Q12846 | | 0.72 | | 1.18 | + | 2.16 | | -0.42 |
| PEF1 | Q9UBV8 | | 0.71 | | 1.34 | | 1.18 | | 0.06 |
| EZR | P15311 | | 0.70 | + | 1.23 | + | 1.79 | | -0.27 |
| ARF6 | P62330 | + | 0.70 | | 1.15 | | 1.02 | | 0.24 |
| CC2D1B | Q5T0F9 | | 0.70 | + | 1.80 | + | 1.32 | | -0.34 |
| FAM129B | Q96TA1 | | 0.70 | | -0.08 | | 1.06 | | 0.95 |
| TMEM30A | Q9NV96 | | 0.70 | | 1.05 | + | 1.72 | | -0.13 |
| SLC7A11 | Q9UPY5 | | 0.69 | + | 1.58 | + | 1.82 | | -0.53 |
| BTN2A1 | Q7KYR7 | | 0.69 | | 0.97 | + | 2.43 | | -0.53 |
| PI4KA | P42356 | | 0.68 | | 1.22 | | 1.67 | | -0.24 |
| HSPA6 | P17066 | | 0.68 | + | 2.35 | + | 1.64 | + | -0.90 |
| RPLP2 | P05387 | | 0.68 | | -0.36 | | 0.79 | + | 1.23 |
| BLVRA | P53004 | | 0.67 | | 0.75 | + | 1.89 | | -0.11 |
| YKT6 | O15498 | | 0.66 | + | 1.29 | + | 1.49 | | -0.22 |
| MAP4K4 | O95819 | + | 0.66 | + | 1.65 | | 0.70 | | 0.04 |
| GNAI2 | P04899 | + | 0.65 | | 0.34 | + | 0.51 | + | 0.92 |
| ANXA5 | P08758 | | 0.65 | + | 2.10 | + | 1.86 | + | -0.94 |
| MSN | P26038 | | 0.65 | | 1.15 | + | 1.54 | | -0.18 |
| COMT | P21964 | | 0.65 | + | 1.36 | | 0.63 | | 0.23 |
| SLC9A3R1 | O14745 | | 0.65 | + | 3.88 | | 2.32 | + | -2.30 |

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|----------|--------|---|------|---|-------|---|-------|---|-------|
| MYO1C | O00159 | | 0.64 | + | 1.69 | | 0.84 | | -0.10 |
| RHBDF1 | Q96CC6 | | 0.62 | + | 2.71 | | 1.50 | | -1.17 |
| RAP1A | P62834 | + | 0.62 | + | 0.82 | + | 1.02 | | 0.26 |
| LAMP1 | P11279 | | 0.61 | | 0.85 | + | 2.34 | | -0.56 |
| EPB41L2 | O43491 | + | 0.61 | + | 1.14 | | 0.87 | | 0.14 |
| RP2 | O75695 | | 0.60 | | 1.29 | | 1.05 | | -0.08 |
| PELI2 | Q9HAT8 | | 0.60 | + | 1.86 | | 0.43 | | -0.05 |
| RHOC | P08134 | | 0.59 | | 1.25 | + | 2.27 | | -0.82 |
| SNTB1 | Q13884 | | 0.59 | + | 2.45 | + | 1.80 | | -1.26 |
| PTPRA | P18433 | | 0.58 | + | 1.18 | + | 1.51 | | -0.33 |
| KRT9 | P35527 | | 0.58 | | -0.43 | | 1.26 | | 0.78 |
| PSMA2 | P25787 | | 0.58 | | 0.50 | | -0.12 | | 1.05 |
| FN1 | P02751 | | 0.58 | + | 2.11 | | 1.12 | | -0.67 |
| ADK | P55263 | | 0.56 | | 1.14 | | -0.28 | | 0.72 |
| ADAM17 | P78536 | | 0.55 | + | 2.29 | + | 1.32 | + | -0.96 |
| ACTN4 | O43707 | | 0.55 | | -0.22 | + | 1.30 | | 0.55 |
| IGSF3 | O75054 | | 0.54 | + | 2.09 | | 0.17 | | -0.16 |
| KPNA4 | O00629 | | 0.54 | | -0.42 | | 1.18 | | 0.74 |
| HSPA8 | P11142 | | 0.54 | + | 2.36 | + | 1.02 | + | -0.84 |
| CCDC50 | Q8IVM0 | | 0.54 | + | 4.33 | + | 2.94 | + | -3.18 |
| GALK1 | P51570 | | 0.53 | | 1.29 | | -0.80 | | 0.86 |
| SORT1 | Q99523 | | 0.53 | + | 2.49 | | 1.47 | | -1.22 |
| GAP43 | P17677 | | 0.52 | | -0.79 | | 0.45 | + | 1.34 |
| ORAI1 | Q96D31 | | 0.51 | | 1.72 | | -0.42 | | 0.35 |
| HIST2H3A | Q71DI3 | | 0.51 | | 1.44 | | -1.02 | | 0.87 |
| KRT16 | P08779 | | 0.49 | | 1.64 | | 1.43 | | -0.76 |
| UBE2L3 | P68036 | | 0.49 | | 1.37 | | 2.03 | | -0.96 |
| RNH1 | P13489 | | 0.49 | | 0.23 | | 2.05 | | -0.29 |
| PITPNA | Q00169 | | 0.49 | | 0.30 | + | 1.52 | | -0.01 |
| STK24 | Q9Y6E0 | | 0.48 | | 0.42 | | 1.46 | | -0.06 |
| TXN | P10599 | | 0.48 | | 0.22 | | 1.11 | | 0.27 |
| TAGLN2 | P37802 | | 0.48 | | -0.02 | | -0.10 | | 1.13 |
| CSNK1G2 | P78368 | | 0.46 | | 0.63 | | 0.60 | | 0.27 |
| WASL | O00401 | | 0.46 | | -0.26 | + | 2.22 | | -0.17 |
| STOM | P27105 | | 0.45 | + | 1.27 | + | 1.58 | + | -0.71 |

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|---------|--------|---|------|---|-------|---|-------|---|-------|
| PRKDC | P78527 | | 0.44 | | 0.60 | | 0.30 | | 0.44 |
| ARHGDI2 | P52565 | | 0.44 | | 0.52 | | 0.66 | | 0.27 |
| PSMA3 | P25788 | | 0.44 | | -0.82 | | 0.28 | | 1.29 |
| CAPN5 | O15484 | | 0.43 | + | 3.66 | + | -1.87 | | -0.12 |
| GPM6B | Q13491 | | 0.43 | + | 2.98 | | 2.28 | + | -2.21 |
| F5 | P12259 | | 0.42 | | 0.35 | + | -1.83 | + | 1.81 |
| FAM126A | Q9BY13 | | 0.42 | | 0.87 | | 0.69 | | -0.02 |
| DNAJB1 | P25685 | | 0.41 | | 0.99 | + | 1.27 | | -0.44 |
| CLIC1 | O00299 | | 0.41 | | 0.52 | | 0.97 | | 0.02 |
| H3F3A | P84243 | | 0.41 | | -1.06 | | 0.79 | | 1.07 |
| CLIC4 | Q9Y696 | | 0.41 | + | 1.07 | + | 2.12 | + | -1.01 |
| ACTN1 | P12814 | | 0.41 | | 0.43 | | 0.85 | | 0.13 |
| MINK1 | Q8N4C8 | | 0.39 | + | 1.79 | + | 1.61 | + | -1.18 |
| EIF4A1 | P60842 | + | 0.38 | | 0.38 | + | 0.73 | | 0.18 |
| RHOA | P61586 | | 0.38 | | 0.09 | | 0.14 | | 0.69 |
| RAP2B | P61225 | | 0.37 | + | 0.86 | + | 0.97 | | -0.28 |
| C9 | P02748 | | 0.37 | | 0.51 | | -1.29 | | 1.28 |
| FAM49B | Q9NUQ9 | + | 0.36 | | 0.36 | | 0.33 | | 0.39 |
| UBASH3B | Q8TF42 | | 0.35 | + | 1.27 | | 0.62 | | -0.36 |
| PA2G4 | Q9UQ80 | | 0.35 | | -0.24 | | 1.25 | | 0.16 |
| ADSL | P30566 | | 0.35 | | 0.58 | | -0.15 | | 0.51 |
| EHD1 | Q9H4M9 | | 0.35 | | 0.36 | | -0.33 | | 0.74 |
| ENAH | Q8N8S7 | | 0.35 | | 0.33 | | 0.86 | | 0.05 |
| H2AFY | O75367 | | 0.34 | | 0.24 | | -0.96 | | 1.19 |
| RTN4 | Q9NQC3 | | 0.33 | + | -1.39 | + | 1.17 | | 0.87 |
| EIF6 | P56537 | | 0.31 | | -0.39 | | 1.12 | | 0.25 |
| CYFIP1 | Q7L576 | | 0.31 | | -0.09 | | -0.17 | | 0.85 |
| PCDHGC3 | Q9UN70 | | 0.30 | | -0.74 | | 0.86 | | 0.59 |
| ROBO1 | Q9Y6N7 | | 0.30 | + | 1.72 | | 0.06 | | -0.41 |
| ECE1 | P42892 | | 0.30 | | -0.26 | | -0.38 | | 1.04 |
| KRT1 | P04264 | | 0.30 | | -0.51 | | 0.69 | | 0.54 |
| SCARB1 | Q8WTV0 | | 0.29 | | 1.21 | + | 2.00 | | -1.28 |
| CALR | P27797 | | 0.29 | + | -1.36 | + | 0.94 | + | 0.90 |
| MPP1 | Q00013 | | 0.29 | + | 1.67 | + | 2.26 | + | -1.72 |
| VANGL1 | Q8TAA9 | | 0.29 | + | 1.45 | | 0.93 | | -0.79 |

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|--------------|------------|--|------|---|-------|---|-------|---|-------|
| DNM2 | P50570 | | 0.29 | | -0.31 | | 1.15 | | 0.12 |
| TPP2 | P29144 | | 0.28 | | -0.22 | | -0.56 | + | 1.08 |
| CACNA2D 1 | P54289 | | 0.28 | | 0.83 | + | -1.81 | | 1.20 |
| TFG | Q92734 | | 0.27 | | 1.66 | | 0.49 | | -0.68 |
| ACAT2 | Q9BWD 1 | | 0.25 | | 0.22 | | 2.21 | | -0.90 |
| MGRN1 | O60291 | | 0.24 | | 0.58 | | 1.04 | | -0.45 |
| PTGES3 | Q15185 | | 0.23 | | -1.14 | | 0.64 | | 0.81 |
| RAB1A | P62820 | | 0.22 | | 0.91 | | 0.96 | | -0.63 |
| COL6A2 | P12110 | | 0.22 | | 0.59 | + | -1.21 | | 0.86 |
| GOLGA7 | Q7Z5G4 | | 0.22 | | 0.30 | | 0.43 | | 0.04 |
| KRT5 | P13647 | | 0.22 | | -0.88 | | 0.75 | | 0.55 |
| SERPINF2 | P08697 | | 0.21 | | 0.35 | + | -1.80 | + | 1.34 |
| ATP2B4 | P23634 | | 0.21 | | -0.21 | + | 0.98 | | 0.00 |
| LYPLA1 | O75608 | | 0.21 | | 0.69 | | 0.32 | | -0.15 |
| GNA13 | Q14344 | | 0.20 | | 0.68 | | 0.62 | | -0.34 |
| CASK | O14936 | | 0.20 | | 1.15 | | 0.72 | | -0.69 |
| TJP1 | Q07157 | | 0.19 | + | 2.02 | | -1.13 | | -0.12 |
| EHD2 | Q9NZN4 | | 0.19 | + | -1.62 | | -0.49 | + | 1.67 |
| CIT | O14578 | | 0.18 | + | 2.73 | + | 1.61 | + | -2.20 |
| GDI2 | P50395 | | 0.17 | | -0.39 | | 0.15 | | 0.53 |
| ANGPTL2 | Q9UKU9 | | 0.17 | + | 1.39 | | -0.56 | | -0.13 |
| FARP1 | Q9Y4F1 | | 0.17 | + | 1.61 | | 0.98 | + | -1.18 |
| RGS20 | O76081 | | 0.17 | | -0.02 | + | 1.50 | | -0.52 |
| FLOT1 | O75955 | | 0.16 | | 0.56 | | 0.45 | | -0.25 |
| MOB1A | Q9H8S9 | | 0.16 | + | 1.47 | | 0.33 | | -0.72 |
| EHD3 | Q9NZN3 | | 0.16 | | 0.45 | + | -2.46 | | 1.55 |
| WASF2 | Q9Y6W5 | | 0.15 | | 0.30 | | 0.90 | | -0.38 |
| TGOLN2 | O43493 | | 0.14 | | 0.72 | | 0.30 | | -0.30 |
| IPO7 | O95373 | | 0.14 | | -0.69 | | 0.95 | | 0.15 |
| F13A1 | P00488 | | 0.14 | | 0.47 | | -1.76 | | 1.08 |
| DIP2B | Q9P265 | | 0.13 | + | 1.89 | + | 1.38 | + | -1.67 |
| S100A13 | Q99584 | | 0.13 | | 0.77 | | -0.03 | | -0.16 |
| TIPRL | O75663 | | 0.13 | | 0.20 | | 1.03 | | -0.46 |
| ERBIN | Q96RT1 | | 0.12 | | 0.50 | | 1.05 | | -0.67 |

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|-----------|--------|--|-------|---|-------|---|-------|---|-------|
| HBB | P68871 | | 0.11 | | 0.66 | + | -1.40 | | 0.69 |
| DYNC1H1 | Q14204 | | 0.11 | | 0.03 | | -0.54 | | 0.55 |
| KRT2 | P35908 | | 0.11 | | -0.57 | | 0.38 | | 0.36 |
| MICALL1 | Q8N3F8 | | 0.10 | | 0.29 | | -0.07 | | 0.10 |
| EEF1A1 | P68104 | | 0.10 | + | -1.11 | | 0.22 | + | 0.75 |
| HIST1H4A | P62805 | | 0.10 | | 0.15 | + | -1.66 | | 1.12 |
| RBM3 | P98179 | | 0.09 | + | -1.70 | | 0.25 | + | 1.07 |
| PSAT1 | Q9Y617 | | 0.09 | | -0.95 | | 1.05 | | 0.13 |
| GNAS | P63092 | | 0.09 | | 0.06 | + | 0.83 | + | -0.33 |
| PLEC | Q15149 | | 0.08 | | -0.29 | | 1.58 | | -0.61 |
| VPS45 | Q9NRW7 | | 0.07 | | 0.63 | | 0.07 | | -0.26 |
| PCBP1 | Q15365 | | 0.06 | + | -0.90 | | -0.19 | + | 0.79 |
| ATP1A1 | P05023 | | 0.06 | + | 1.01 | + | 1.29 | + | -1.25 |
| CTNND1 | O60716 | | 0.06 | | -0.22 | | -0.03 | | 0.27 |
| LIMS1 | P48059 | | 0.05 | | -0.69 | | -1.05 | + | 1.16 |
| TUBA1A | Q71U36 | | 0.04 | | -0.93 | | -0.17 | | 0.76 |
| BAG2 | O95816 | | 0.04 | + | 1.37 | | -0.02 | + | -0.71 |
| DCLK1 | O15075 | | 0.04 | | 0.18 | | -0.11 | | 0.05 |
| PHGDH | O43175 | | 0.04 | | 0.30 | + | 0.82 | | -0.59 |
| TNFRSF10B | O14763 | | 0.04 | | -0.90 | | -0.51 | | 0.92 |
| EFNB2 | P52799 | | 0.03 | | -0.20 | + | -1.79 | + | 1.26 |
| PFAS | O15067 | | 0.03 | | -0.16 | | -0.04 | | 0.18 |
| SMURF2 | Q9HAU4 | | 0.03 | | -0.78 | | -0.69 | + | 0.94 |
| RACGAP1 | Q9H0H5 | | 0.02 | | 1.08 | | 0.69 | | -1.02 |
| SLC30A1 | Q9Y6M5 | | 0.02 | | 0.59 | + | 2.76 | + | -1.96 |
| SERPINA10 | Q9UK55 | | 0.01 | | -0.12 | | 0.28 | | -0.07 |
| RAB10 | P61026 | | 0.00 | | 0.31 | | 0.37 | | -0.41 |
| A2M | P01023 | | 0.00 | + | 1.88 | | -1.67 | | -0.13 |
| RPL30 | P62888 | | 0.00 | + | -2.58 | | 0.11 | + | 1.47 |
| EXT1 | Q16394 | | -0.01 | | 0.33 | + | -0.99 | | 0.38 |
| SYNCRIP | O60506 | | -0.01 | + | -2.02 | | 0.72 | | 0.75 |
| HEBP1 | Q9NRV9 | | -0.02 | | 1.45 | | 1.16 | + | -1.60 |
| TOLLIP | Q9H0E2 | | -0.02 | + | 1.86 | | 1.35 | + | -1.97 |

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|---------|--------|--|-------|---|-------|---|-------|---|-------|
| STXBP3 | O00186 | | -0.02 | | 0.06 | + | 1.11 | | -0.75 |
| SLC3A2 | P08195 | | -0.03 | | 1.12 | | 0.56 | + | -1.07 |
| SLC7A5 | Q01650 | | -0.03 | + | 1.40 | | 0.53 | + | -1.23 |
| CCT2 | P78371 | | -0.04 | | -0.44 | | 0.15 | | 0.08 |
| ILK | Q13418 | | -0.05 | | -0.13 | + | -1.22 | + | 0.71 |
| CFL1 | P23528 | | -0.05 | | 0.31 | | -0.02 | | -0.28 |
| ANXA6 | P08133 | | -0.05 | + | 1.14 | + | 1.01 | + | -1.41 |
| LDHA | P00338 | | -0.06 | | -0.99 | | 0.68 | | 0.07 |
| NCAM1 | P13591 | | -0.06 | | 0.59 | + | -2.80 | + | 1.19 |
| LGALS1 | P09382 | | -0.06 | | -0.76 | | 1.45 | | -0.55 |
| YWHAE | P62258 | | -0.06 | | 0.28 | | 0.15 | | -0.39 |
| MVP | Q14764 | | -0.07 | | 0.35 | + | 1.38 | + | -1.19 |
| PTP4A2 | Q12974 | | -0.08 | | 0.56 | | 0.65 | | -0.90 |
| SLC12A7 | Q9Y666 | | -0.08 | | 0.50 | | -0.21 | | -0.35 |
| SRM | P19623 | | -0.08 | | -0.21 | + | 1.43 | + | -0.92 |
| FTH1 | P02794 | | -0.08 | | 0.89 | | -0.25 | | -0.57 |
| SCAMP3 | O14828 | | -0.09 | + | 0.71 | | 0.37 | + | -0.85 |
| TNIK | Q9UKE5 | | -0.10 | + | 1.60 | + | 2.53 | + | -2.71 |
| NME1 | P15531 | | -0.13 | | -0.05 | + | 0.71 | + | -0.68 |
| STIP1 | P31948 | | -0.13 | + | 0.53 | | 0.07 | + | -0.65 |
| KRT10 | P13645 | | -0.14 | | -0.76 | | 0.06 | | 0.12 |
| CAP1 | Q01518 | | -0.14 | | -0.79 | | 0.72 | | -0.27 |
| CSNK1A1 | P48729 | | -0.15 | | 0.04 | + | -0.78 | | 0.12 |
| STXBP2 | Q15833 | | -0.15 | | 0.55 | + | 2.12 | + | -1.93 |
| SCAMP1 | O15126 | | -0.15 | | 0.63 | | 0.64 | | -1.10 |
| AOX1 | Q06278 | | -0.16 | | -0.40 | | 0.04 | | -0.13 |
| FGB | P02675 | | -0.16 | | -0.11 | + | -2.00 | + | 0.91 |
| CAPZA1 | P52907 | | -0.16 | | 0.31 | + | 0.71 | + | -0.97 |
| PHB2 | Q99623 | | -0.17 | | -1.39 | | -1.48 | | 1.35 |
| PSMB1 | P20618 | | -0.18 | + | -0.65 | | -0.56 | | 0.33 |
| M6PR | P20645 | | -0.19 | + | 1.41 | | -0.42 | + | -1.00 |
| HGS | O14964 | | -0.19 | | 0.57 | | 0.79 | + | -1.24 |
| PSMA1 | P25786 | | -0.20 | + | -0.77 | + | -0.49 | + | 0.33 |
| PSMA5 | P28066 | | -0.20 | | -0.66 | | -0.44 | | 0.23 |
| RAB8A | P61006 | | -0.20 | | 0.14 | | 0.35 | + | -0.73 |

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|---------|-------------|---|-------|---|-------|---|-------|---|-------|
| CLTC | Q00610 | | -0.20 | + | -1.39 | + | -0.64 | + | 0.78 |
| NEDD4L | Q96PU5 | | -0.21 | | 0.54 | | 0.71 | + | -1.21 |
| GSTZ1 | O43708 | | -0.21 | | -0.39 | | -1.30 | | 0.55 |
| EMILIN1 | Q9Y6C2 | | -0.22 | + | 3.17 | + | -1.64 | + | -1.40 |
| PSMA7 | O14818 | | -0.22 | + | -0.86 | + | -0.43 | + | 0.28 |
| SBDS | Q9Y3A5 | | -0.23 | | 0.00 | | 0.00 | | -0.50 |
| WBP2 | Q969T9 | | -0.23 | | 1.13 | | 0.28 | + | -1.35 |
| MTHFD1 | P11586 | | -0.23 | | -0.38 | | -0.30 | | -0.11 |
| COL6A3 | P12111 | | -0.24 | | -0.32 | + | -1.94 | + | 0.83 |
| PPIH | O43447 | | -0.24 | | -0.09 | + | -1.02 | | 0.14 |
| VPS25 | Q9BRG1 | | -0.25 | | -0.56 | | -0.35 | | 0.01 |
| ALDOA | P04075 | | -0.26 | | 0.06 | + | 1.05 | + | -1.23 |
| YWHAZ | P63104 | | -0.26 | | -0.06 | | 0.50 | + | -0.84 |
| RUVBL2 | Q9Y230 | | -0.27 | + | -1.82 | | -0.79 | | 0.97 |
| MYH9 | P35579 | | -0.27 | + | -0.97 | | 0.14 | | -0.10 |
| FLNB | O75369 | | -0.27 | + | -2.84 | | -2.45 | + | 2.57 |
| PEA15 | Q15121 | | -0.27 | | -0.39 | | 0.31 | | -0.56 |
| CCT6A | P40227 | + | -0.27 | + | -0.67 | | -0.01 | | -0.20 |
| SGCB | Q16585 | | -0.28 | | 0.59 | | 1.25 | + | -1.71 |
| PAG1 | Q9NWWQ 8 | | -0.28 | | 0.32 | | 0.91 | | -1.35 |
| RAB5C | P51148 | | -0.28 | + | -0.58 | + | 0.46 | + | -0.55 |
| PSMA6 | P60900 | | -0.28 | + | -0.50 | + | -1.02 | | 0.29 |
| ANTXR1 | Q9H6X2 | | -0.28 | + | -1.88 | | -0.37 | | 0.73 |
| CAPZB | P47756 | | -0.28 | | 0.09 | + | 0.96 | + | -1.26 |
| SCARB2 | Q14108 | | -0.29 | | -0.02 | | 2.16 | + | -1.93 |
| ESD | P10768 | | -0.30 | | 0.12 | | 0.29 | | -0.90 |
| RPL32 | P62910 | | -0.30 | + | -1.97 | | 0.22 | | 0.40 |
| LMNA | P02545 | | -0.30 | | -0.42 | | -0.24 | | -0.27 |
| ADD1 | P35611 | | -0.31 | | -0.10 | | -0.31 | | -0.44 |
| PSMB4 | P28070 | | -0.32 | | -1.12 | | -0.96 | | 0.55 |
| NAMPT | P43490 | | -0.32 | | -0.89 | | 1.46 | | -1.05 |
| MICAL1 | Q8TDZ2 | | -0.32 | | 0.42 | | 0.78 | + | -1.42 |
| ANXA7 | P20073 | | -0.32 | + | 1.02 | | -0.42 | + | -1.07 |
| AARS | P49588 | | -0.32 | | -0.51 | | -0.10 | | -0.34 |

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|----------|--------|---|-------|---|-------|---|-------|---|-------|
| TSN | Q15631 | | -0.32 | | -0.29 | | 0.57 | | -0.87 |
| SLC4A2 | P04920 | | -0.33 | | -1.03 | | 2.34 | | -1.50 |
| IFITM3 | Q01628 | | -0.33 | | 1.27 | | -1.11 | | -0.83 |
| PCNA | P12004 | | -0.34 | | -0.16 | | 1.48 | | -1.55 |
| CDK1 | P06493 | | -0.34 | | 0.65 | | -0.91 | | -0.60 |
| MYOF | Q9NZM1 | | -0.34 | + | -4.56 | + | 2.76 | | 0.32 |
| VIM | P08670 | | -0.35 | + | -1.02 | + | 0.56 | + | -0.50 |
| ARF3 | P61204 | | -0.36 | | -0.12 | | -0.36 | | -0.50 |
| RAB7A | P51149 | | -0.36 | | -0.26 | + | 0.48 | + | -0.93 |
| PIIB | P23284 | | -0.37 | | -0.60 | | 0.08 | | -0.50 |
| RDX | P35241 | | -0.37 | | 1.81 | | 1.59 | + | -2.85 |
| EIF5 | P55010 | | -0.37 | | 0.25 | | -0.40 | + | -0.72 |
| TPI1 | P60174 | | -0.38 | | 0.12 | | 0.20 | + | -1.01 |
| C5 | P01031 | | -0.38 | | -0.65 | + | -2.13 | | 0.83 |
| SERPINH1 | P50454 | | -0.39 | | -0.15 | | -0.64 | | -0.39 |
| HSPA1A | P08107 | | -0.40 | + | 1.17 | | 0.22 | + | -1.71 |
| TMEM59 | Q9BXS4 | | -0.40 | | 0.12 | | 0.87 | | -1.47 |
| RPS3A | P61247 | | -0.42 | + | -1.39 | | -0.10 | | -0.02 |
| S100A6 | P06703 | | -0.42 | | -1.75 | | -1.70 | | 1.16 |
| CAPG | P40121 | | -0.42 | | 0.73 | + | 4.50 | + | -4.07 |
| TCP1 | P17987 | + | -0.43 | + | -0.74 | + | -0.44 | | -0.23 |
| LMCD1 | Q9NZU5 | | -0.43 | | 0.09 | | -0.69 | | -0.58 |
| STX3 | Q13277 | | -0.44 | | 0.76 | | 1.41 | + | -2.27 |
| CD9 | P21926 | | -0.44 | + | -2.96 | | 1.02 | | 0.20 |
| BAIAP2 | Q9UQB8 | | -0.44 | | -0.75 | | -0.27 | | -0.36 |
| FGA | P02671 | | -0.46 | | -0.49 | + | -2.67 | | 0.89 |
| EXOC4 | Q96A65 | | -0.46 | | -0.48 | | -0.06 | | -0.69 |
| RPL17 | P18621 | | -0.46 | | -1.28 | | -0.35 | | -0.04 |
| NPM1 | P06748 | + | -0.47 | + | -1.22 | | -0.38 | | -0.07 |
| TUBA1B | P68363 | + | -0.47 | | -0.53 | + | -0.90 | | -0.17 |
| CNDP2 | Q96KP4 | | -0.47 | | -0.84 | | 0.96 | | -1.10 |
| UBE2M | P61081 | | -0.47 | | -0.15 | | 0.06 | + | -0.99 |
| THBS1 | P07996 | | -0.48 | + | -4.69 | + | -2.92 | + | 3.51 |
| TUBB | P07437 | + | -0.48 | + | -0.88 | | -0.35 | | -0.32 |
| RPS17 | P0CW22 | | -0.49 | | -0.96 | | 0.08 | | -0.55 |

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|----------|------------|---|-------|---|-------|---|-------|---|-------|
| FLG2 | Q5D862 | | -0.49 | | -1.66 | | -1.14 | | 0.60 |
| COL6A1 | P12109 | | -0.49 | | -0.33 | + | -1.51 | | 0.03 |
| CTNNB1 | P35222 | | -0.50 | | -0.69 | | -0.41 | | -0.43 |
| P2RX7 | Q99572 | | -0.50 | | 1.54 | | 0.23 | + | -2.17 |
| RNF149 | Q8NC42 | | -0.50 | | -0.09 | | 0.94 | + | -1.62 |
| CDK5 | Q00535 | + | -0.51 | | -0.41 | + | -0.83 | | -0.38 |
| TTYH2 | Q9BSA4 | | -0.51 | + | 2.36 | + | 2.92 | + | -4.29 |
| TWF1 | Q12792 | | -0.52 | | -1.21 | | 0.76 | | -0.87 |
| SERPINC1 | P01008 | | -0.52 | | -0.53 | + | -2.25 | | 0.52 |
| CYSLTR2 | Q9NS75 | | -0.53 | | -0.87 | | -0.14 | | -0.55 |
| RAB9A | P51151 | | -0.53 | | -1.05 | | 0.57 | | -0.87 |
| ENPP6 | Q6UWR 7 | + | -0.53 | | -0.37 | | -0.25 | + | -0.79 |
| ABCE1 | P61221 | | -0.54 | | -0.13 | | -0.43 | | -0.84 |
| SNX2 | O60749 | | -0.54 | | -0.11 | | 0.18 | + | -1.22 |
| UGDH | O60701 | | -0.54 | | 0.87 | | -1.40 | | -0.86 |
| USP5 | P45974 | | -0.54 | | -0.03 | | -0.39 | | -0.94 |
| CSTB | P04080 | | -0.54 | | 0.64 | | 1.84 | + | -2.67 |
| TSPAN10 | Q9H1Z9 | | -0.55 | | 1.99 | | -1.24 | + | -1.65 |
| RPS8 | P62241 | + | -0.55 | + | -1.54 | + | -0.57 | | 0.07 |
| TNS3 | Q68CZ2 | | -0.55 | | -0.55 | | -0.32 | | -0.69 |
| SCAMP2 | O15127 | | -0.56 | | -0.62 | | 1.20 | + | -1.58 |
| TPM4 | P67936 | | -0.58 | + | -2.19 | | 0.24 | | -0.11 |
| DYNLL2 | Q96FJ2 | | -0.59 | | -0.34 | | 0.19 | | -1.20 |
| SKIV2L | Q15477 | | -0.59 | | -0.71 | | -0.57 | | -0.52 |
| CAPN2 | P17655 | | -0.59 | | -1.49 | | 0.07 | | -0.44 |
| PCMT1 | P22061 | | -0.60 | | -0.73 | | 0.73 | + | -1.31 |
| XPO1 | O14980 | | -0.60 | | -0.97 | | -0.36 | | -0.52 |
| CORO1C | Q9ULV4 | | -0.60 | | -0.98 | | 0.50 | + | -1.03 |
| ANXA4 | P09525 | | -0.60 | | 0.16 | | 0.56 | + | -1.75 |
| RPL6 | Q02878 | | -0.60 | + | -2.19 | | 0.21 | | -0.13 |
| MTPN | P58546 | | -0.60 | | -0.06 | | 0.25 | + | -1.44 |
| EPB41L3 | Q9Y2J2 | | -0.62 | | -0.76 | | 0.58 | + | -1.26 |
| THOP1 | P52888 | | -0.63 | | 0.08 | | -0.72 | | -0.99 |
| NAPRT | Q6XQN6 | | -0.63 | | -0.92 | | -0.27 | | -0.67 |

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|---------------|--------|---|-------|---|-------|---|-------|---|-------|
| CCT3 | P49368 | + | -0.63 | + | -1.10 | + | -0.75 | | -0.28 |
| HPCAL1 | P37235 | | -0.63 | | -0.86 | | -0.14 | | -0.79 |
| PREP | P48147 | | -0.63 | | -0.27 | | -0.81 | | -0.74 |
| VAMP7 | P51809 | | -0.64 | | -0.17 | | -0.79 | | -0.82 |
| VCL | P18206 | + | -0.64 | + | -1.67 | + | -0.90 | | 0.14 |
| C16orf62 | Q7Z3J2 | | -0.65 | | -0.72 | | -0.56 | | -0.66 |
| CCT7 | Q99832 | + | -0.65 | + | -1.12 | + | -0.45 | + | -0.49 |
| STAM | Q92783 | | -0.65 | | 0.54 | | 0.69 | + | -2.18 |
| RPS11 | P62280 | | -0.66 | | -1.31 | | -0.84 | | -0.15 |
| RAB11B | Q15907 | + | -0.66 | + | -0.62 | + | -0.63 | + | -0.70 |
| TUBB4B | P68371 | + | -0.66 | + | -0.95 | | -0.69 | | -0.47 |
| LUM | P51884 | + | -0.66 | + | -1.09 | | -0.15 | | -0.72 |
| P2RX4 | Q99571 | | -0.67 | + | -1.23 | | 0.78 | + | -1.21 |
| GNAQ | P50148 | + | -0.67 | | -0.64 | | -0.16 | + | -1.00 |
| PPP1CC | P36873 | | -0.68 | | -0.38 | | -0.18 | | -1.17 |
| CSNK2A3 | Q8NEV1 | | -0.68 | | -0.66 | | -0.26 | | -0.95 |
| NDRG3 | Q9UGV2 | | -0.69 | | -1.23 | | 1.27 | + | -1.54 |
| PSMD6 | Q15008 | | -0.69 | | -0.65 | | -1.19 | | -0.41 |
| DRG2 | P55039 | + | -0.69 | | -0.79 | | -0.41 | + | -0.79 |
| LMBRD1 | Q9NUN5 | | -0.69 | | -0.58 | | -0.58 | | -0.83 |
| SGCD | Q92629 | | -0.69 | | -0.53 | + | 1.83 | + | -2.30 |
| SRI | P30626 | + | -0.70 | | 0.13 | | -0.26 | + | -1.46 |
| PRPSAP1 | Q14558 | | -0.70 | | -0.55 | | -0.55 | | -0.88 |
| RRAGC | Q9HB90 | + | -0.71 | + | -0.82 | | -0.14 | + | -0.98 |
| RPS7 | P62081 | | -0.71 | + | -2.24 | | 0.11 | | -0.29 |
| SOD1 | P00441 | | -0.71 | | 0.39 | | 1.33 | + | -2.60 |
| USP7 | Q93009 | + | -0.72 | | -0.37 | | -0.80 | + | -0.87 |
| OSTF1 | Q92882 | | -0.72 | | -1.15 | | 0.42 | | -1.14 |
| HNRNPA2 B1 | P22626 | + | -0.72 | | -0.76 | | -0.52 | + | -0.83 |
| RPL21 | P46778 | + | -0.73 | + | -1.62 | + | -1.17 | | 0.07 |
| AHNAK | Q09666 | | -0.73 | | -0.40 | | 1.20 | + | -2.09 |
| HSP90AB1 | P08238 | + | -0.73 | + | -1.31 | | -0.40 | + | -0.58 |
| RAB8B | Q92930 | | -0.74 | | 1.25 | | 0.44 | + | -2.63 |
| PFKP | Q01813 | + | -0.74 | + | -1.21 | + | -1.70 | | 0.13 |

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|-------------|------------|---|-------|---|-------|---|-------|---|-------|
| AP3D1 | O14617 | + | -0.74 | | -0.76 | | -0.73 | | -0.74 |
| PLP1 | P60201 | | -0.74 | + | 2.41 | + | 2.08 | + | -4.32 |
| APPL1 | Q9UKG1 | + | -0.74 | | -1.05 | | -0.75 | | -0.56 |
| TUBB4A | P04350 | | -0.75 | + | -2.68 | | -0.32 | | 0.16 |
| POFUT1 | Q9H488 | | -0.75 | | -0.40 | | -0.45 | + | -1.13 |
| GPI | P06744 | + | -0.76 | + | -0.88 | + | 0.58 | + | -1.48 |
| CCT8 | P50990 | + | -0.76 | + | -1.17 | + | -0.84 | + | -0.47 |
| DBN1 | Q16643 | | -0.76 | + | -1.92 | | -1.04 | | 0.10 |
| CCT4 | P50991 | + | -0.77 | + | -1.22 | + | -1.42 | | -0.10 |
| UBE2N | P61088 | + | -0.77 | | -0.76 | | -0.52 | + | -0.92 |
| MFSD12 | Q6NUT3 | | -0.77 | | -1.47 | | 1.52 | + | -1.72 |
| POFUT2 | Q9Y2G5 | | -0.78 | | -0.27 | | -0.91 | | -1.00 |
| RTRAF | Q9Y224 | + | -0.78 | + | -1.13 | | -0.81 | | -0.56 |
| GNA11 | P29992 | + | -0.78 | + | -1.02 | | 0.27 | + | -1.28 |
| MAPRE2 | Q15555 | + | -0.79 | | -0.82 | | -0.94 | | -0.68 |
| RRAS | P10301 | | -0.79 | + | -2.16 | | -0.97 | | 0.14 |
| AIDA | Q96BJ3 | | -0.79 | | -0.50 | | -0.11 | + | -1.38 |
| CAPN1 | P07384 | + | -0.79 | + | -1.86 | | -0.72 | | -0.20 |
| PTPRS | Q13332 | | -0.80 | | 0.29 | | 0.12 | + | -2.00 |
| CORO1B | Q9BR76 | | -0.80 | | -1.01 | | 0.20 | | -1.27 |
| RRAGA | Q7L523 | | -0.80 | + | -1.52 | | -0.44 | | -0.57 |
| NAP1L4 | Q99733 | | -0.80 | + | -0.68 | | 0.49 | + | -1.66 |
| DNAJA4 | Q8WW2 2 | | -0.82 | | -1.08 | | 0.12 | | -1.23 |
| PRORS1 P | A6NEY8 | + | -0.82 | | -0.51 | + | -1.03 | + | -0.89 |
| MYL6 | P60660 | + | -0.82 | | -0.78 | | -0.15 | + | -1.25 |
| EIF1AX | P47813 | | -0.83 | | -0.56 | | -0.38 | | -1.26 |
| SNX3 | O60493 | | -0.83 | | -1.04 | | 1.44 | + | -2.06 |
| CCT5 | P48643 | + | -0.83 | + | -1.04 | + | -0.61 | + | -0.84 |
| PEBP1 | P30086 | | -0.84 | | -0.39 | | 0.49 | + | -1.90 |
| CAPZA2 | P47755 | | -0.84 | | -0.63 | | 0.47 | | -1.74 |
| PPP2R5D | Q14738 | + | -0.84 | | -0.18 | | -0.45 | + | -1.47 |
| EPM2AIP1 | Q7L775 | | -0.85 | | -0.66 | | -1.04 | | -0.85 |
| NPC1 | O15118 | | -0.85 | | -0.32 | | 0.52 | + | -1.99 |
| MATR3 | P43243 | + | -0.85 | | -0.38 | | -0.28 | + | -1.49 |

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|-----------|--------|---|-------|---|-------|---|-------|---|-------|
| DSG1 | Q02413 | | -0.86 | | -1.77 | | 0.17 | | -0.93 |
| GSTO1 | P78417 | | -0.86 | | -0.35 | | 1.06 | + | -2.31 |
| PPP2R5E | Q16537 | + | -0.86 | | -0.27 | + | -1.37 | + | -0.91 |
| TXNDC5 | Q8NBS9 | | -0.86 | | -1.22 | | -0.39 | | -0.92 |
| PFN1 | P07737 | + | -0.86 | | -0.51 | | -0.73 | + | -1.15 |
| KIF21A | Q7Z4S6 | + | -0.86 | | -0.64 | | -1.18 | | -0.80 |
| RUVBL1 | Q9Y265 | + | -0.87 | + | -1.26 | + | -1.02 | | -0.54 |
| PDIA6 | Q15084 | + | -0.87 | + | -1.15 | | -0.02 | + | -1.21 |
| LAMP2 | P13473 | | -0.87 | | -0.77 | | 1.15 | + | -2.14 |
| PAPSS1 | O43252 | | -0.88 | | -0.75 | | -1.32 | | -0.68 |
| CCDC66 | A2RUB6 | | -0.88 | | 1.16 | | -1.94 | | -1.46 |
| RAB21 | Q9UL25 | | -0.88 | | -0.99 | | -0.19 | | -1.24 |
| DYNC1L1I2 | O43237 | + | -0.89 | | -0.90 | | -0.68 | | -1.00 |
| SRP54 | P61011 | + | -0.89 | + | -1.08 | + | -0.94 | + | -0.74 |
| BLMH | Q13867 | + | -0.89 | | -0.90 | | -0.32 | + | -1.23 |
| MYH10 | P35580 | | -0.89 | + | 1.19 | + | 1.39 | + | -3.51 |
| EEF2 | P13639 | + | -0.90 | + | -1.54 | + | -0.60 | + | -0.69 |
| SCLY | Q96I15 | | -0.90 | | -1.06 | | -1.26 | | -0.59 |
| MYO10 | Q9HD67 | | -0.90 | | -1.61 | | -0.94 | | -0.46 |
| PRPF8 | Q6P2Q9 | + | -0.91 | + | -0.98 | + | -1.27 | + | -0.64 |
| AAK1 | Q2M2I8 | + | -0.91 | | -0.84 | | -0.91 | + | -0.96 |
| ATL3 | Q6DD88 | + | -0.91 | | -0.57 | | -0.57 | + | -1.33 |
| CUTA | O60888 | | -0.92 | | -0.89 | | -0.52 | | -1.18 |
| COL4A2 | P08572 | | -0.92 | + | -2.43 | + | -2.32 | | 0.81 |
| RPL7 | P18124 | + | -0.93 | + | -1.70 | + | -0.86 | + | -0.50 |
| PCSK1 | P29120 | | -0.93 | | -1.03 | | -1.37 | | -0.60 |
| SYN2 | Q92777 | + | -0.93 | | -0.41 | | -1.36 | | -0.99 |
| MGEA5 | O60502 | + | -0.93 | + | -1.24 | | -0.92 | | -0.76 |
| ACP1 | P24666 | | -0.93 | | -0.65 | | -1.47 | | -0.79 |
| HSPA5 | P11021 | + | -0.94 | + | -2.70 | | -0.28 | | -0.27 |
| FRAS1 | Q86XX4 | | -0.94 | | -0.99 | | -1.53 | | -0.55 |
| SSB | P05455 | + | -0.94 | | -0.82 | | -0.80 | | -1.09 |
| SLC9A3R2 | Q15599 | | -0.94 | | 0.91 | | -1.27 | + | -1.85 |
| KIF1A | Q12756 | + | -0.94 | | -0.74 | | -0.93 | + | -1.08 |
| ACTG1 | P63261 | + | -0.95 | + | -0.65 | | -0.22 | + | -1.56 |

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|----------|------------|---|-------|---|-------|---|-------|---|-------|
| BLVRB | P30043 | + | -0.96 | | -1.02 | | -0.87 | | -0.97 |
| PSMD7 | P51665 | | -0.96 | | -1.83 | | -1.11 | | -0.35 |
| ACLY | P53396 | + | -0.97 | + | -1.71 | + | -1.51 | | -0.19 |
| MAP2K1 | Q02750 | + | -0.97 | | -0.73 | | -0.98 | | -1.10 |
| EEF1D | P29692 | | -0.97 | | -1.80 | | 1.13 | + | -1.73 |
| HSP90AA1 | P07900 | + | -0.98 | + | -1.50 | + | -0.89 | + | -0.72 |
| AP2A1 | O95782 | + | -0.98 | + | -0.92 | | -0.58 | + | -1.25 |
| PGK1 | P00558 | + | -0.98 | + | -1.02 | | -0.40 | + | -1.31 |
| HTATSF1 | O43719 | | -0.99 | | -0.17 | | -1.34 | | -1.27 |
| ARPC1B | O15143 | + | -0.99 | + | -1.49 | | -0.32 | + | -1.09 |
| PRKAR1A | P10644 | | -1.00 | | -0.31 | | 0.94 | + | -2.58 |
| DYNLL1 | P63167 | | -1.00 | | -0.74 | | 0.10 | + | -1.82 |
| GSN | P06396 | + | -1.01 | + | -0.84 | | 0.44 | + | -1.97 |
| RPS6 | P62753 | + | -1.01 | + | -2.11 | | -0.29 | + | -0.77 |
| UBE2D2 | P62837 | + | -1.01 | | -1.09 | | -1.03 | | -0.96 |
| SERINC1 | Q9NRX5 | | -1.01 | | 0.43 | | 0.30 | + | -2.67 |
| ANLN | Q9NQW 6 | | -1.01 | + | 1.01 | | 0.22 | + | -2.97 |
| PPP1CA | P62136 | + | -1.03 | + | -1.20 | + | -0.76 | + | -1.09 |
| ATP6V1C1 | P21283 | + | -1.03 | + | -1.36 | | -0.28 | + | -1.29 |
| NAA15 | Q9BXJ9 | + | -1.03 | | -0.47 | | -1.30 | + | -1.21 |
| GOLM1 | Q8NBJ4 | + | -1.03 | | -1.08 | | -1.07 | | -0.98 |
| PARK7 | Q99497 | | -1.04 | | -0.68 | | 1.06 | + | -2.52 |
| RPL19 | P84098 | + | -1.05 | + | -2.10 | | -0.11 | + | -0.99 |
| ALDH3A2 | P51648 | + | -1.05 | | -0.82 | + | -1.32 | + | -1.03 |
| YWHAB | P31946 | + | -1.05 | + | -0.79 | + | -0.76 | + | -1.39 |
| XPNPEP1 | Q9NQW 7 | + | -1.06 | + | -2.19 | + | -0.97 | | -0.42 |
| SRRT | Q9BXP5 | + | -1.06 | | -0.55 | | -0.62 | + | -1.63 |
| DIP2C | Q9Y2E4 | | -1.06 | + | 1.42 | | 0.76 | + | -3.64 |
| KTN1 | Q86UP2 | + | -1.08 | | 0.11 | | -1.16 | + | -1.74 |
| PDIA3 | P30101 | + | -1.08 | + | -1.62 | | -0.58 | + | -1.05 |
| KPNB1 | Q14974 | + | -1.09 | + | -0.94 | + | -0.52 | + | -1.51 |
| IDI1 | Q13907 | + | -1.09 | | -1.20 | | -0.66 | + | -1.28 |
| GPMB | Q14956 | | -1.09 | | 0.62 | | -1.92 | | -1.62 |
| ME1 | P48163 | + | -1.09 | | -1.32 | | -1.16 | | -0.91 |

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|---------|--------|---|-------|---|-------|---|-------|---|-------|
| STX12 | Q86Y82 | | -1.09 | | -1.90 | | 0.81 | + | -1.75 |
| PPP1CB | P62140 | + | -1.09 | | -1.02 | | -1.02 | + | -1.18 |
| APOE | P02649 | + | -1.11 | | 0.25 | + | -0.49 | + | -2.30 |
| HSPH1 | Q92598 | + | -1.11 | + | -0.79 | + | -0.79 | + | -1.50 |
| FERMT3 | Q86UX7 | + | -1.11 | | -0.45 | + | -2.35 | | -0.77 |
| GNPNAT1 | Q96EK6 | + | -1.11 | + | -1.61 | | -1.52 | | -0.57 |
| NAPA | P54920 | + | -1.11 | + | -1.24 | | -0.36 | + | -1.49 |
| LANCL1 | O43813 | + | -1.12 | + | -1.31 | | -0.60 | + | -1.31 |
| MDH1 | P40925 | + | -1.12 | | -0.39 | | 0.03 | + | -2.24 |
| TP53RK | Q96S44 | + | -1.12 | | -1.38 | | -0.64 | | -1.25 |
| IQGAP1 | P46940 | | -1.12 | | -0.33 | | 0.69 | + | -2.69 |
| USP9X | Q93008 | + | -1.12 | | -0.81 | | -1.71 | | -0.96 |
| HNRNPH1 | P31943 | + | -1.13 | | -1.10 | + | -1.30 | + | -1.05 |
| PSMB5 | P28074 | + | -1.13 | + | -1.91 | + | -1.71 | | -0.32 |
| RPS24 | P62847 | + | -1.14 | | -1.83 | | -0.63 | | -1.04 |
| TLN1 | Q9Y490 | + | -1.14 | + | -1.68 | + | -0.77 | + | -1.05 |
| PRMT5 | O14744 | + | -1.15 | | -1.11 | | -0.58 | + | -1.51 |
| CUL3 | Q13618 | | -1.16 | | -1.67 | | -1.14 | | -0.85 |
| CADM1 | Q9BY67 | | -1.16 | + | -1.98 | | 1.59 | + | -2.32 |
| PPP6C | O00743 | + | -1.17 | | -1.31 | | -1.13 | | -1.10 |
| KCTD12 | Q96CX2 | + | -1.17 | | -1.10 | | -0.92 | + | -1.35 |
| CPOX | P36551 | + | -1.17 | | -1.05 | | -0.99 | + | -1.34 |
| LYPLA2 | O95372 | + | -1.17 | | -1.97 | | -0.72 | | -0.96 |
| GSTP1 | P09211 | + | -1.17 | + | -1.08 | | -0.37 | + | -1.71 |
| FAP | Q12884 | | -1.17 | | -1.43 | | -0.66 | | -1.32 |
| AMPD2 | Q01433 | + | -1.18 | | -0.44 | + | -1.48 | + | -1.43 |
| HIBADH | P31937 | + | -1.18 | | -1.44 | | -1.38 | | -0.90 |
| VASP | P50552 | | -1.18 | | -1.79 | | -0.43 | | -1.27 |
| SYNJ1 | O43426 | + | -1.19 | | -0.95 | | -0.89 | + | -1.50 |
| ATP1B1 | P05026 | + | -1.19 | | 0.11 | + | -1.25 | + | -1.93 |
| RNMT | O43148 | + | -1.19 | | -1.00 | | -1.64 | + | -1.03 |
| EPHX2 | P34913 | + | -1.19 | | -0.94 | + | -1.51 | + | -1.15 |
| HRNR | Q86YZ3 | | -1.20 | | -1.56 | | 0.16 | | -1.80 |
| S100A10 | P60903 | + | -1.20 | | -0.48 | | 0.06 | + | -2.39 |
| SNRPD3 | P62318 | | -1.20 | | -0.71 | | -2.06 | | -0.99 |

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|---------|--------|---|-------|---|-------|---|-------|---|-------|
| PRDX1 | Q06830 | + | -1.21 | | 0.32 | + | -1.29 | + | -2.07 |
| S100A11 | P31949 | | -1.21 | | -0.66 | | 0.15 | + | -2.35 |
| SF3B1 | O75533 | + | -1.21 | + | -1.75 | + | -1.52 | | -0.70 |
| RPL35A | P18077 | + | -1.21 | | -1.60 | | -0.51 | | -1.40 |
| USP14 | P54578 | + | -1.21 | | -0.96 | | -0.43 | + | -1.83 |
| PPP5C | P53041 | + | -1.21 | | -0.92 | | -1.36 | | -1.30 |
| EPB41L1 | Q9H4G0 | + | -1.22 | | -1.22 | + | -1.44 | + | -1.08 |
| BPHL | Q86WA6 | + | -1.22 | + | -1.25 | | -0.52 | + | -1.63 |
| TJP2 | Q9UDY2 | + | -1.23 | + | -1.67 | + | -1.21 | + | -0.97 |
| UTRN | P46939 | | -1.23 | | 0.81 | | 0.86 | + | -3.70 |
| VWA5A | O00534 | + | -1.24 | + | -1.67 | | -0.60 | + | -1.36 |
| AHCYL2 | Q96HN2 | + | -1.24 | + | -1.16 | + | -1.67 | + | -1.03 |
| LRBA | P50851 | | -1.24 | | -1.54 | | -1.07 | | -1.17 |
| MCCC2 | Q9HCC0 | + | -1.26 | + | -1.53 | + | -1.21 | + | -1.12 |
| YWHAQ | P27348 | + | -1.27 | + | -1.25 | | -0.77 | + | -1.59 |
| ACTR3 | P61158 | + | -1.28 | + | -2.02 | + | -1.20 | + | -0.88 |
| LPP | Q93052 | + | -1.28 | + | -2.19 | | -1.20 | | -0.78 |
| AIMP2 | Q13155 | + | -1.28 | + | -1.44 | + | -1.38 | + | -1.12 |
| G6PD | P11413 | + | -1.28 | + | -0.97 | | -0.50 | + | -1.94 |
| SEC22B | O75396 | + | -1.28 | | -0.71 | | 0.17 | + | -2.50 |
| DSTN | P60981 | + | -1.29 | | -0.25 | | 0.24 | + | -2.82 |
| SEC23A | Q15436 | + | -1.29 | | -1.30 | | -1.31 | | -1.26 |
| TM9SF3 | Q9HD45 | + | -1.30 | | -0.54 | | -1.96 | | -1.36 |
| GOT1 | P17174 | + | -1.30 | | -0.51 | | 0.26 | + | -2.71 |
| CLPP | Q16740 | + | -1.31 | | -1.52 | + | -1.61 | | -0.99 |
| ATP9A | O75110 | + | -1.32 | | -1.15 | + | -1.65 | + | -1.21 |
| ARPC2 | O15144 | + | -1.32 | + | -2.61 | + | -1.43 | | -0.48 |
| RAB1B | Q9H0U4 | + | -1.32 | + | -1.06 | + | -1.06 | + | -1.63 |
| PPP2CA | P67775 | + | -1.32 | + | -1.14 | | -0.93 | + | -1.66 |
| TTYH3 | Q9C0H2 | + | -1.32 | | -1.10 | + | -1.62 | + | -1.28 |
| DCTN1 | Q14203 | + | -1.32 | | -1.08 | + | -1.70 | + | -1.24 |
| GCAT | O75600 | + | -1.33 | | -0.96 | + | -2.07 | | -1.10 |
| GSK3A | P49840 | + | -1.33 | | -0.59 | | -1.68 | + | -1.56 |
| PDLIM1 | O00151 | + | -1.34 | + | -1.03 | + | -1.42 | + | -1.47 |
| TWF2 | Q6IBS0 | + | -1.34 | | -0.89 | | -1.44 | + | -1.55 |

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|----------|--------|---|-------|---|-------|---|-------|---|-------|
| RPL3 | P39023 | + | -1.35 | + | -2.29 | + | -1.26 | + | -0.84 |
| UHL5 | Q9Y5K5 | + | -1.35 | | -1.35 | | -1.04 | + | -1.53 |
| AP2B1 | P63010 | + | -1.35 | + | -1.54 | + | -1.00 | + | -1.44 |
| CSPG4 | Q6UVK1 | | -1.35 | + | 4.54 | + | 2.60 | + | -7.26 |
| RPL1 | P05386 | + | -1.35 | | -1.22 | + | -2.10 | | -0.99 |
| MFAP2 | P55001 | + | -1.36 | | -1.70 | | -1.53 | | -1.05 |
| DNAJC13 | O75165 | + | -1.36 | | -0.91 | | -0.77 | + | -1.98 |
| P4HB | P07237 | + | -1.36 | + | -1.48 | | -0.38 | + | -1.88 |
| AP2M1 | Q96CW1 | + | -1.37 | | -0.62 | | -0.90 | + | -2.10 |
| AP2A2 | O94973 | + | -1.37 | | -0.45 | | -0.15 | + | -2.66 |
| SKP1 | P63208 | + | -1.37 | + | -2.07 | | -0.32 | + | -1.59 |
| TPP1 | O14773 | + | -1.38 | | -1.58 | | -0.70 | + | -1.67 |
| SERPINE2 | P07093 | + | -1.39 | | -1.48 | | -1.37 | + | -1.35 |
| PLS3 | P13797 | + | -1.39 | + | -2.19 | | -0.04 | + | -1.72 |
| EPCAM | P16422 | + | -1.40 | | -1.13 | | -1.09 | + | -1.75 |
| CSRP2 | Q16527 | + | -1.40 | | -1.50 | | -1.65 | | -1.20 |
| EIF3E | P60228 | + | -1.41 | | -0.90 | | -1.28 | + | -1.78 |
| CTSB | P07858 | + | -1.41 | + | -1.76 | | -1.41 | + | -1.19 |
| DBI | P07108 | | -1.41 | | -0.68 | | -1.82 | | -1.60 |
| AP3M1 | Q9Y2T2 | + | -1.43 | + | -1.56 | + | -1.94 | + | -1.04 |
| GSK3B | P49841 | + | -1.44 | | -1.60 | | -0.91 | + | -1.65 |
| HNRNPM | P52272 | + | -1.44 | + | -1.71 | + | -2.44 | | -0.67 |
| FARSA | Q9Y285 | + | -1.44 | + | -1.61 | | -1.06 | + | -1.56 |
| PSME2 | Q9UL46 | + | -1.44 | + | -1.82 | | -0.87 | + | -1.55 |
| PPIA | P62937 | + | -1.45 | | -0.68 | | -0.94 | + | -2.21 |
| RAB38 | P57729 | + | -1.45 | | -0.20 | | -0.10 | + | -3.01 |
| PYCR3 | Q53H96 | + | -1.45 | | -1.74 | | -1.45 | | -1.28 |
| ACAA1 | P09110 | + | -1.46 | + | -1.28 | + | -1.92 | + | -1.30 |
| UAP1 | Q16222 | + | -1.46 | | -0.54 | + | -1.62 | + | -1.92 |
| CAPNS1 | P04632 | + | -1.47 | + | -2.37 | + | -1.10 | + | -1.15 |
| RAB4B | P61018 | + | -1.48 | | -1.13 | | -1.13 | + | -1.91 |
| QARS | P47897 | + | -1.49 | + | -1.67 | + | -1.54 | + | -1.34 |
| PMPCB | O75439 | + | -1.49 | + | -1.77 | | -1.35 | + | -1.40 |
| RPL18 | Q07020 | + | -1.49 | + | -2.26 | + | -1.36 | + | -1.10 |
| ZRANB2 | O95218 | + | -1.49 | + | -1.36 | + | -1.38 | + | -1.64 |

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|--------------|--------|---|-------|---|-------|---|-------|---|-------|
| RAB27A | P51159 | + | -1.49 | | 0.69 | | -0.98 | + | -3.11 |
| UGP2 | Q16851 | + | -1.49 | + | -0.85 | | 0.25 | + | -2.93 |
| EIF3F | O00303 | + | -1.50 | + | -2.48 | | 0.24 | + | -1.95 |
| GLOD4 | Q9HC38 | + | -1.50 | + | -1.26 | + | -1.25 | + | -1.79 |
| AHCY | P23526 | + | -1.50 | + | -1.25 | + | -2.30 | + | -1.17 |
| NQO1 | P15559 | + | -1.50 | + | -1.25 | | -0.06 | + | -2.52 |
| LMAN2 | Q12907 | + | -1.52 | | -0.93 | + | -1.80 | + | -1.71 |
| RBBP7 | Q16576 | + | -1.52 | | -2.01 | | -1.25 | | -1.40 |
| EDNRB | P24530 | + | -1.53 | | -0.04 | | -0.24 | + | -3.20 |
| HDAC1 | Q13547 | + | -1.53 | + | -1.58 | + | -1.81 | + | -1.34 |
| UROD | P06132 | + | -1.55 | + | -2.09 | | -1.54 | | -1.22 |
| GMPR | P36959 | + | -1.55 | + | -2.55 | | 0.23 | + | -2.02 |
| HACD3 | Q9P035 | + | -1.55 | + | -1.58 | + | -1.57 | + | -1.52 |
| RPS23 | P62266 | + | -1.55 | + | -2.76 | + | -1.60 | + | -0.79 |
| EVA1B | Q9NVM1 | + | -1.56 | + | 0.94 | | -0.12 | + | -3.92 |
| GALM | Q96C23 | + | -1.56 | | -1.65 | + | -1.82 | + | -1.35 |
| CUL2 | Q13617 | + | -1.56 | | -1.21 | | -1.40 | + | -1.87 |
| TOM1 | O60784 | + | -1.56 | | 0.34 | | -0.07 | + | -3.60 |
| KLC1 | Q07866 | + | -1.57 | | -2.19 | | -0.24 | + | -1.99 |
| LRRC59 | Q96AG4 | + | -1.57 | + | -1.82 | | -1.01 | + | -1.76 |
| UBA1 | P22314 | + | -1.58 | + | -1.75 | + | -1.41 | + | -1.58 |
| RPL8 | P62917 | + | -1.58 | + | -2.89 | + | -0.85 | + | -1.24 |
| SEC23B | Q15437 | + | -1.59 | + | -1.94 | + | -1.81 | + | -1.25 |
| FLNA | P21333 | + | -1.59 | + | -1.68 | + | -1.50 | + | -1.60 |
| VPS35 | Q96QK1 | + | -1.61 | + | -1.89 | + | -0.91 | + | -1.86 |
| SRP72 | O76094 | + | -1.61 | + | -1.69 | | -1.22 | + | -1.79 |
| FKBP5 | Q13451 | + | -1.61 | | -1.38 | | -1.52 | + | -1.80 |
| LZTFL1 | Q9NQ48 | + | -1.61 | + | -2.09 | | -1.43 | + | -1.43 |
| HNRNPUL 2 | Q1KMD3 | + | -1.61 | | -1.59 | | -1.55 | + | -1.67 |
| YWHAG | P61981 | + | -1.61 | + | -1.56 | + | -1.57 | + | -1.67 |
| RPS10 | P46783 | + | -1.62 | + | -2.19 | + | -1.84 | + | -1.13 |
| TARDBP | Q13148 | + | -1.62 | + | -1.59 | + | -1.54 | + | -1.69 |
| EIF4A2 | Q14240 | + | -1.62 | + | -1.45 | + | -1.68 | + | -1.69 |
| FREM2 | Q5SZK8 | + | -1.62 | | -1.28 | + | -2.44 | | -1.33 |

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|--------------|--------|---|-------|---|-------|---|-------|---|-------|
| EIF3I | Q13347 | + | -1.62 | | -1.49 | | -1.15 | + | -1.99 |
| SNRPD1 | P62314 | + | -1.62 | + | -1.83 | | -1.45 | + | -1.60 |
| RPL13 | P26373 | + | -1.63 | + | -2.88 | + | -1.21 | + | -1.12 |
| RPS4X | P62701 | + | -1.63 | + | -2.69 | + | -1.93 | + | -0.82 |
| PKM | P14618 | + | -1.64 | + | -1.69 | + | -1.08 | + | -1.94 |
| RAB18 | Q9NP72 | + | -1.64 | | -1.88 | | -1.76 | | -1.42 |
| XPO7 | Q9UIA9 | + | -1.64 | + | -1.35 | + | -1.77 | + | -1.74 |
| GNAI1 | P63096 | + | -1.65 | | -0.86 | | 0.67 | + | -3.51 |
| RAP1GDS 1 | P52306 | + | -1.65 | + | -2.08 | + | -1.32 | + | -1.59 |
| DCTN2 | Q13561 | + | -1.65 | | -1.75 | + | -2.36 | | -1.16 |
| RPL7A | P62424 | + | -1.65 | + | -3.16 | + | -1.50 | + | -0.83 |
| YWHAH | Q04917 | + | -1.65 | + | -0.93 | + | -0.88 | + | -2.54 |
| LAMTOR1 | Q6IAA8 | + | -1.66 | | 0.25 | | -0.55 | + | -3.46 |
| VDAC1 | P21796 | + | -1.66 | | -1.52 | | -1.22 | + | -2.00 |
| EIF4A3 | P38919 | + | -1.66 | + | -3.54 | + | -2.47 | | -0.05 |
| ABCF1 | Q8NE71 | + | -1.66 | + | -2.26 | + | -1.81 | + | -1.22 |
| RPL28 | P46779 | + | -1.67 | | -0.87 | | -2.62 | | -1.58 |
| PSMD12 | O00232 | + | -1.67 | + | -1.80 | + | -2.81 | | -0.92 |
| NHLRC2 | Q8NBF2 | + | -1.67 | + | -1.59 | + | -1.91 | + | -1.58 |
| TTLL12 | Q14166 | + | -1.68 | | -0.70 | | -0.51 | + | -2.96 |
| SSR4 | P51571 | + | -1.68 | + | -2.24 | | -1.26 | + | -1.60 |
| PTPRM | P28827 | + | -1.68 | | -2.16 | | -0.58 | + | -2.05 |
| CMBL | Q96DG6 | + | -1.69 | | -2.16 | | -1.64 | | -1.44 |
| PEPD | P12955 | + | -1.70 | + | -2.12 | | -0.11 | + | -2.39 |
| SF3A3 | Q12874 | + | -1.70 | + | -1.84 | | -1.64 | + | -1.64 |
| B4GAT1 | O43505 | + | -1.70 | | -1.28 | + | -2.14 | + | -1.69 |
| SRSF6 | Q13247 | + | -1.70 | | -1.83 | | -1.79 | | -1.57 |
| RPL18A | Q02543 | + | -1.71 | + | -2.98 | + | -2.67 | | -0.36 |
| UQCRC1 | P31930 | + | -1.71 | | -1.30 | | -2.16 | | -1.69 |
| NDUFS1 | P28331 | + | -1.71 | + | -1.72 | + | -2.52 | | -1.23 |
| ACTR2 | P61160 | + | -1.72 | + | -2.58 | + | -1.99 | + | -1.04 |
| NMT1 | P30419 | + | -1.72 | | -1.07 | + | -2.17 | + | -1.84 |
| RPS15A | P62244 | + | -1.73 | | -1.67 | | -2.42 | | -1.35 |
| SLC1A4 | P43007 | | -1.73 | | 1.21 | + | 1.56 | + | -5.47 |

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|---------|--------|---|-------|---|-------|---|-------|---|-------|
| ACAA2 | P42765 | + | -1.74 | | -1.12 | | -1.45 | + | -2.28 |
| SNU13 | P55769 | + | -1.74 | + | -1.88 | + | -2.23 | + | -1.36 |
| PPP2R1A | P30153 | + | -1.74 | + | -2.01 | + | -1.29 | + | -1.84 |
| PSMC3 | P17980 | + | -1.74 | + | -1.45 | + | -2.49 | + | -1.47 |
| PFN2 | P35080 | | -1.74 | | -2.55 | | -1.64 | | -1.32 |
| OLA1 | Q9NTK5 | + | -1.75 | + | -1.81 | | -0.61 | + | -2.40 |
| SPTBN1 | Q01082 | + | -1.76 | | -0.37 | + | 0.74 | + | -4.09 |
| RBP4 | P02753 | + | -1.76 | + | -2.62 | | -1.19 | | -1.59 |
| KARS | Q15046 | + | -1.76 | + | -2.13 | | -1.26 | + | -1.85 |
| ISOC1 | Q96CN7 | + | -1.77 | | -1.71 | | -1.46 | + | -1.98 |
| ITM2C | Q9NQX7 | | -1.77 | | -2.88 | | 1.50 | + | -3.06 |
| ITM2B | Q9Y287 | + | -1.77 | | -1.28 | | -2.43 | | -1.67 |
| NARS | O43776 | + | -1.77 | + | -1.58 | + | -2.15 | + | -1.67 |
| LGALS3 | P17931 | | -1.78 | | 1.16 | | 0.65 | + | -4.99 |
| FOLH1 | Q04609 | + | -1.78 | | -1.86 | | -1.77 | + | -1.73 |
| EIF2S3 | P41091 | + | -1.79 | + | -2.12 | + | -2.61 | | -1.10 |
| CTNNA1 | P35221 | | -1.79 | + | -6.63 | | 0.09 | | -0.02 |
| RPL27A | P46776 | + | -1.80 | + | -3.27 | + | -1.50 | + | -1.09 |
| GANAB | Q14697 | + | -1.80 | + | -2.30 | + | -3.06 | | -0.74 |
| WDR61 | Q9GZS3 | + | -1.80 | | -1.00 | | -1.83 | + | -2.27 |
| CORO7 | P57737 | + | -1.81 | | -1.71 | | -1.81 | | -1.86 |
| PRDX2 | P32119 | + | -1.81 | | 0.14 | | -0.63 | + | -3.68 |
| AKR7A2 | O43488 | + | -1.81 | | -1.54 | | -1.51 | + | -2.14 |
| LARS | Q9P2J5 | + | -1.81 | + | -1.91 | + | -1.37 | + | -2.02 |
| GMPS | P49915 | + | -1.82 | + | -2.04 | | -1.04 | + | -2.14 |
| RPS26 | P62854 | + | -1.82 | + | -2.53 | + | -1.71 | + | -1.46 |
| FGF2 | P09038 | + | -1.82 | + | -1.47 | + | -2.47 | + | -1.64 |
| ARL8B | Q9NVJ2 | + | -1.83 | | -1.30 | | -0.56 | + | -2.91 |
| SDHA | P31040 | + | -1.83 | + | -1.83 | + | -1.69 | + | -1.92 |
| GPR143 | P51810 | + | -1.83 | + | -2.81 | | -1.30 | | -1.57 |
| PDPR | Q8NCN5 | + | -1.84 | + | -2.18 | | -1.62 | + | -1.77 |
| GSPT1 | P15170 | + | -1.84 | + | -2.30 | | -0.84 | + | -2.16 |
| ACADM | P11310 | + | -1.85 | + | -1.88 | + | -2.00 | + | -1.75 |
| LDHB | P07195 | + | -1.86 | + | -1.82 | + | -1.77 | + | -1.92 |
| PLXNC1 | O60486 | + | -1.86 | | -1.98 | | -0.07 | + | -2.86 |

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|--------|--------|---|-------|---|-------|---|-------|---|-------|
| ARPC3 | O15145 | + | -1.86 | + | -2.68 | + | -1.57 | + | -1.55 |
| RPL10 | P27635 | + | -1.86 | + | -3.12 | + | -1.85 | + | -1.11 |
| STX7 | O15400 | + | -1.86 | | -0.49 | | 0.52 | + | -4.11 |
| HSPA4L | O95757 | + | -1.86 | + | -2.14 | + | -2.04 | + | -1.60 |
| EIF4E | P06730 | + | -1.88 | | -1.56 | + | -2.34 | | -1.79 |
| ME2 | P23368 | + | -1.88 | + | -2.41 | + | -1.87 | + | -1.57 |
| VPS26A | O75436 | + | -1.88 | + | -2.28 | + | -1.93 | + | -1.62 |
| CANX | P27824 | + | -1.89 | + | -2.21 | + | -1.23 | + | -2.10 |
| SNTB2 | Q13425 | + | -1.90 | | -1.91 | | -1.19 | + | -2.31 |
| PI4K2A | Q9BTU6 | + | -1.90 | + | -1.96 | | -1.23 | + | -2.27 |
| WARS | P23381 | + | -1.91 | + | -1.50 | + | -1.08 | + | -2.65 |
| RPL22 | P35268 | + | -1.91 | + | -2.39 | | -2.31 | | -1.38 |
| HSPA13 | P48723 | + | -1.92 | + | -2.07 | + | -2.80 | + | -1.29 |
| NEFH | P12036 | + | -1.92 | + | -1.77 | + | -2.21 | + | -1.83 |
| CTSD | P07339 | + | -1.92 | | -1.47 | | -0.66 | + | -2.94 |
| SND1 | Q7KZF4 | + | -1.92 | + | -2.36 | | -0.29 | + | -2.63 |
| PSMD13 | Q9UNM6 | + | -1.92 | + | -2.68 | + | -2.88 | | -0.89 |
| SORD | Q00796 | + | -1.92 | | -1.47 | | -1.63 | + | -2.37 |
| PCCA | P05165 | + | -1.93 | | -1.59 | + | -1.98 | + | -2.10 |
| UPF1 | Q92900 | + | -1.94 | + | -3.00 | + | -1.34 | + | -1.66 |
| IARS | P41252 | + | -1.94 | + | -2.33 | + | -2.32 | + | -1.49 |
| SNAP25 | P60880 | + | -1.94 | + | -1.98 | + | -2.55 | + | -1.56 |
| GALE | Q14376 | + | -1.95 | | -1.11 | | -1.18 | + | -2.91 |
| NPLOC4 | Q8TAT6 | + | -1.95 | + | -2.30 | | -1.48 | + | -2.02 |
| TALDO1 | P37837 | + | -1.96 | + | -3.15 | + | 1.20 | + | -3.14 |
| PSMD1 | Q99460 | + | -1.97 | + | -3.14 | | -0.61 | + | -2.08 |
| CSNK2B | P67870 | + | -1.97 | + | -1.69 | | -1.43 | + | -2.46 |
| RPL13A | P40429 | + | -1.97 | + | -2.25 | + | -2.18 | + | -1.69 |
| PRELP | P51888 | + | -1.98 | + | -2.27 | | -1.23 | + | -2.26 |
| UBA3 | Q8TBC4 | + | -1.98 | | -1.90 | | -1.92 | + | -2.06 |
| PTPA | Q15257 | + | -1.99 | | -1.79 | | -1.60 | + | -2.34 |
| ILF2 | Q12905 | + | -1.99 | + | -3.59 | + | -3.45 | | -0.15 |
| RPL24 | P83731 | + | -2.00 | + | -2.83 | + | -2.58 | | -1.14 |
| HBZ | P02008 | + | -2.00 | + | -1.79 | + | -3.33 | + | -1.32 |
| TRPV2 | Q9Y5S1 | | -2.02 | + | 1.23 | + | 1.68 | + | -6.18 |

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|----------|--------|---|-------|---|-------|---|-------|---|-------|
| WDR1 | O75083 | + | -2.04 | + | -1.74 | + | -1.63 | + | -2.45 |
| ATP1B2 | P14415 | + | -2.04 | + | -2.70 | + | -2.28 | + | -1.50 |
| DNM1L | O00429 | + | -2.04 | + | -2.05 | + | -3.17 | + | -1.36 |
| PSME1 | Q06323 | + | -2.04 | + | -2.00 | + | -1.88 | + | -2.17 |
| HINT1 | P49773 | + | -2.05 | | -1.36 | | -0.50 | + | -3.39 |
| F10 | P00742 | + | -2.05 | + | -1.97 | + | -1.82 | + | -2.24 |
| MFAP4 | P55083 | + | -2.06 | + | -2.63 | + | -2.41 | + | -1.50 |
| WDFY1 | Q8IWB7 | + | -2.07 | + | -1.37 | | 0.64 | + | -4.11 |
| RPL37A | P61513 | + | -2.07 | + | -2.11 | + | -2.06 | + | -2.05 |
| CPD | O75976 | + | -2.08 | + | -1.81 | + | -1.62 | + | -2.53 |
| ATP8A1 | Q9Y2Q0 | + | -2.08 | | -1.73 | + | -1.97 | + | -2.37 |
| SERPINB6 | P35237 | | -2.09 | | -2.76 | | 3.39 | + | -4.98 |
| PSMD8 | P48556 | + | -2.10 | + | -3.13 | + | -1.78 | + | -1.68 |
| PDCD4 | Q53EL6 | + | -2.11 | + | -2.60 | | -1.63 | + | -2.10 |
| KIT | P10721 | + | -2.11 | | -1.74 | + | -2.95 | | -1.82 |
| SNRPD2 | P62316 | + | -2.11 | + | -2.47 | + | -2.35 | + | -1.75 |
| CCAR1 | Q8IX12 | + | -2.12 | + | -2.15 | + | -2.25 | + | -2.01 |
| EEA1 | Q15075 | + | -2.13 | + | -2.32 | + | -2.13 | + | -2.02 |
| TNPO1 | Q92973 | + | -2.13 | + | -1.98 | + | -0.66 | + | -3.10 |
| COPS8 | Q99627 | + | -2.13 | + | -1.95 | + | -2.24 | + | -2.17 |
| MYO5A | Q9Y4I1 | + | -2.13 | + | -3.21 | | 0.71 | + | -3.19 |
| ACTR1B | P42025 | + | -2.13 | | -1.94 | + | -2.25 | + | -2.18 |
| LAMTOR3 | Q9UHA4 | + | -2.14 | + | -2.09 | + | -1.76 | + | -2.39 |
| CBR1 | P16152 | + | -2.14 | + | -2.45 | | -0.21 | + | -3.11 |
| STAT1 | P42224 | + | -2.14 | + | -2.75 | + | -0.70 | + | -2.64 |
| CTPS2 | Q9NRF8 | + | -2.14 | + | -2.29 | + | -1.75 | + | -2.28 |
| PSMC5 | P62195 | + | -2.14 | + | -2.32 | + | -2.82 | + | -1.63 |
| PFKM | P08237 | + | -2.15 | + | -3.80 | | -0.87 | + | -1.93 |
| SEC24D | O94855 | + | -2.15 | + | -2.14 | + | -2.03 | + | -2.23 |
| RAB32 | Q13637 | + | -2.15 | + | -2.02 | | 0.21 | + | -3.66 |
| TMED4 | Q7Z7H5 | + | -2.15 | + | -1.91 | + | -2.34 | + | -2.18 |
| ACADSB | P45954 | + | -2.16 | + | -2.48 | | -1.53 | + | -2.34 |
| PIP4K2B | P78356 | + | -2.16 | + | -2.06 | | -1.79 | + | -2.44 |
| UBA6 | A0AVT1 | + | -2.16 | + | -2.30 | | -1.74 | + | -2.33 |
| PYGB | P11216 | + | -2.16 | + | -2.01 | + | -2.19 | + | -2.24 |

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|---------|--------|---|-------|---|-------|---|-------|---|-------|
| RPS18 | P62269 | + | -2.16 | + | -3.74 | + | -1.90 | + | -1.38 |
| SLC7A8 | Q9UHI5 | + | -2.17 | + | -3.14 | | 0.15 | + | -2.97 |
| RPL5 | P46777 | + | -2.17 | + | -3.58 | + | -1.85 | + | -1.51 |
| CRIP2 | P52943 | + | -2.17 | + | -3.21 | | -0.34 | + | -2.64 |
| DDX1 | Q92499 | + | -2.17 | + | -2.97 | | -1.62 | + | -2.01 |
| ALDOC | P09972 | + | -2.17 | + | -2.00 | | 0.09 | + | -3.63 |
| HNRNPU | Q00839 | + | -2.19 | + | -1.27 | + | -5.62 | + | -0.69 |
| PSMD2 | Q13200 | + | -2.19 | + | -3.28 | + | -3.59 | | -0.71 |
| PIP4P1 | Q86T03 | + | -2.20 | + | -2.74 | + | -1.83 | + | -2.09 |
| TMED10 | P49755 | + | -2.21 | + | -2.68 | + | -1.94 | + | -2.08 |
| PSMC4 | P43686 | + | -2.21 | | -1.97 | + | -2.69 | + | -2.06 |
| RAB5B | P61020 | + | -2.21 | + | -0.98 | + | -1.59 | + | -3.32 |
| PCK2 | Q16822 | + | -2.22 | | -1.87 | + | -2.55 | + | -2.23 |
| STRAP | Q9Y3F4 | + | -2.22 | + | -1.63 | + | -1.71 | + | -2.89 |
| EIF3D | O15371 | + | -2.22 | | -1.38 | | -0.84 | + | -3.57 |
| ATP6V1D | Q9Y5K8 | + | -2.23 | + | -2.25 | | -1.72 | + | -2.52 |
| RPN1 | P04843 | + | -2.23 | + | -2.96 | + | -1.66 | + | -2.14 |
| DNAJC5 | Q9H3Z4 | + | -2.24 | | -0.43 | + | -1.44 | + | -3.80 |
| SART3 | Q15020 | + | -2.27 | + | -2.27 | + | -2.15 | + | -2.34 |
| EIF3B | P55884 | + | -2.27 | + | -2.01 | | -0.51 | + | -3.49 |
| RACK1 | P63244 | + | -2.28 | + | -2.61 | + | -1.87 | + | -2.33 |
| RPS2 | P15880 | + | -2.28 | + | -3.21 | + | -2.98 | + | -1.30 |
| RPL9 | P32969 | + | -2.28 | + | -3.48 | + | -1.91 | + | -1.79 |
| DHX9 | Q08211 | + | -2.29 | + | -2.79 | + | -2.37 | + | -1.94 |
| HADHA | P40939 | + | -2.29 | + | -2.39 | + | -2.58 | + | -2.06 |
| PC | P11498 | + | -2.30 | + | -2.73 | | -1.55 | + | -2.50 |
| SRP68 | Q9UHB9 | + | -2.30 | + | -2.33 | + | -2.23 | + | -2.33 |
| PGM2L1 | Q6PCE3 | + | -2.30 | + | -2.04 | + | -2.40 | + | -2.41 |
| CSRP1 | P21291 | + | -2.31 | + | -2.42 | + | -2.06 | + | -2.39 |
| VAMP3 | Q15836 | + | -2.31 | | -0.92 | | 0.19 | + | -4.65 |
| RPS25 | P62851 | + | -2.33 | + | -4.68 | + | -1.02 | + | -1.70 |
| PSMD4 | P55036 | + | -2.34 | + | -2.28 | | -1.50 | + | -2.87 |
| ASS1 | P00966 | + | -2.34 | + | -2.09 | + | -3.45 | + | -1.82 |
| RPL14 | P50914 | + | -2.35 | + | -3.99 | + | -2.18 | + | -1.46 |
| PTPRN | Q16849 | + | -2.35 | | -1.97 | + | -2.57 | + | -2.44 |

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|---------|--------|---|-------|---|-------|---|-------|---|-------|
| TIMP3 | P35625 | + | -2.35 | + | -2.19 | + | -1.54 | + | -2.94 |
| RPL4 | P36578 | + | -2.36 | + | -3.82 | + | -2.58 | + | -1.36 |
| DARS | P14868 | + | -2.37 | + | -2.58 | + | -2.82 | + | -1.97 |
| MYLK | Q15746 | + | -2.37 | + | -2.39 | + | -2.23 | + | -2.44 |
| EML4 | Q9HC35 | + | -2.37 | + | -2.50 | + | -3.12 | + | -1.84 |
| ATIC | P31939 | + | -2.38 | + | -2.70 | + | -1.82 | + | -2.52 |
| ALDH7A1 | P49419 | + | -2.38 | + | -2.55 | + | -2.52 | + | -2.20 |
| DHDH | Q9UQ10 | + | -2.38 | + | -2.88 | | -1.77 | + | -2.45 |
| TUBB3 | Q13509 | + | -2.39 | + | -3.09 | + | -1.97 | + | -2.22 |
| ASNS | P08243 | + | -2.40 | + | -2.61 | + | -2.26 | + | -2.37 |
| BPNT1 | O95861 | + | -2.41 | + | -2.73 | | -1.26 | + | -2.91 |
| HUWE1 | Q7Z6Z7 | + | -2.42 | + | -2.51 | | -2.06 | + | -2.59 |
| PMM2 | O15305 | + | -2.43 | + | -2.83 | | -1.58 | + | -2.69 |
| SAE1 | Q9UBE0 | + | -2.43 | + | -2.94 | + | -2.71 | + | -1.95 |
| SLC25A6 | P12236 | + | -2.43 | + | -3.46 | + | -2.21 | + | -1.95 |
| PSMC1 | P62191 | + | -2.44 | + | -3.02 | + | -3.44 | + | -1.50 |
| PAK2 | Q13177 | + | -2.45 | + | -2.67 | | -1.55 | + | -2.87 |
| PPP2R2A | P63151 | + | -2.45 | + | -2.49 | | -1.98 | + | -2.72 |
| AKR1A1 | P14550 | + | -2.46 | | -0.89 | + | -2.44 | + | -3.42 |
| FERMT2 | Q96AC1 | + | -2.47 | + | -3.69 | + | -4.89 | | -0.30 |
| RARS | P54136 | + | -2.47 | + | -2.43 | + | -2.27 | + | -2.62 |
| NEFM | P07197 | + | -2.47 | | -1.64 | + | -3.24 | + | -2.52 |
| SEC31A | O94979 | + | -2.48 | | -2.05 | + | -2.54 | + | -2.70 |
| RPSA | P08865 | + | -2.48 | + | -3.58 | + | -2.01 | + | -2.10 |
| QDPR | P09417 | + | -2.49 | + | -1.23 | + | -1.08 | + | -4.08 |
| TST | Q16762 | + | -2.51 | | -2.17 | | -2.30 | + | -2.84 |
| SEPT2 | Q15019 | + | -2.51 | + | -0.81 | + | -1.00 | + | -4.44 |
| RPS14 | P62263 | + | -2.51 | + | -3.87 | + | -1.92 | + | -2.06 |
| RABGGTA | Q92696 | + | -2.52 | + | -2.81 | + | -2.34 | + | -2.46 |
| PSMD11 | O00231 | + | -2.52 | + | -2.78 | + | -3.52 | + | -1.77 |
| EEF1G | P26641 | + | -2.53 | + | -3.71 | + | -2.64 | + | -1.76 |
| SEPT3 | Q9UH03 | + | -2.54 | + | -2.28 | + | -2.81 | + | -2.52 |
| EPRS | P07814 | + | -2.55 | | -1.25 | + | -3.83 | + | -2.56 |
| PSMC6 | P62333 | + | -2.56 | + | -2.72 | + | -3.39 | + | -1.97 |
| CRYM | Q14894 | + | -2.57 | + | -2.61 | + | -2.33 | + | -2.69 |

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|---------|--------|---|-------|---|-------|---|-------|---|-------|
| SEPT9 | Q9UHD8 | + | -2.58 | + | -0.65 | + | -1.06 | + | -4.64 |
| RPLP0 | P05388 | + | -2.58 | + | -5.61 | + | -2.37 | + | -0.89 |
| CKMT1A | P12532 | + | -2.61 | | -2.27 | + | -2.42 | + | -2.93 |
| RAB6A | P20340 | + | -2.62 | + | -1.58 | + | -2.70 | + | -3.19 |
| NAE1 | Q13564 | + | -2.62 | + | -2.28 | + | -2.71 | + | -2.77 |
| AP1G1 | O43747 | + | -2.62 | + | -3.05 | + | -1.99 | + | -2.74 |
| MLANA | Q16655 | + | -2.62 | | 0.26 | | 0.53 | + | -6.25 |
| RAB5A | P20339 | + | -2.62 | + | -3.09 | | -2.14 | + | -2.63 |
| RPL15 | P61313 | + | -2.64 | + | -3.28 | + | -2.61 | + | -2.27 |
| KIF5B | P33176 | + | -2.66 | + | -2.93 | + | -1.69 | + | -3.08 |
| SYT5 | O00445 | + | -2.66 | + | -2.47 | + | -2.81 | + | -2.68 |
| GSTM1 | P09488 | + | -2.66 | + | -2.57 | + | -2.52 | + | -2.80 |
| CYB5R3 | P00387 | + | -2.66 | + | -2.63 | | -2.07 | + | -3.04 |
| SPTAN1 | Q13813 | + | -2.67 | + | -1.38 | | 0.12 | + | -5.11 |
| PFKL | P17858 | + | -2.67 | + | -3.32 | + | -2.55 | + | -2.35 |
| CMPK1 | P30085 | + | -2.68 | + | -3.04 | + | -1.20 | + | -3.35 |
| VAMP2 | P63027 | + | -2.68 | | -2.46 | + | -3.13 | + | -2.55 |
| PDK3 | Q15120 | + | -2.69 | + | -2.59 | + | -2.40 | + | -2.92 |
| EIF3L | Q9Y262 | + | -2.69 | + | -2.37 | | -1.39 | + | -3.67 |
| DDB1 | Q16531 | + | -2.69 | + | -2.90 | | -1.42 | + | -3.33 |
| AKR1B1 | P15121 | + | -2.70 | + | -2.93 | + | -1.90 | + | -3.04 |
| NPEPL1 | Q8NDH3 | + | -2.71 | + | -2.84 | | -2.52 | + | -2.74 |
| PRPSAP2 | O60256 | + | -2.71 | + | -3.03 | + | -2.13 | + | -2.86 |
| PAICS | P22234 | + | -2.71 | + | -2.84 | + | -2.82 | + | -2.57 |
| AP1B1 | Q10567 | + | -2.74 | | -1.95 | | -1.90 | + | -3.71 |
| PSMD5 | Q16401 | + | -2.74 | + | -2.54 | + | -3.73 | + | -2.27 |
| IPO5 | O00410 | + | -2.74 | + | -2.87 | + | -2.81 | + | -2.62 |
| RPS5 | P46782 | + | -2.76 | + | -2.93 | + | -2.01 | + | -3.11 |
| PCCB | P05166 | + | -2.76 | + | -2.88 | + | -2.58 | + | -2.80 |
| RAB2A | P61019 | + | -2.78 | + | -1.87 | + | -2.25 | + | -3.64 |
| RAN | P62826 | + | -2.78 | + | -3.35 | + | -2.64 | + | -2.52 |
| ENO3 | P13929 | + | -2.78 | + | -3.25 | | -2.65 | + | -2.58 |
| SYP | P08247 | + | -2.80 | + | -2.97 | + | -2.69 | + | -2.77 |
| SRSF3 | P84103 | + | -2.81 | + | -3.41 | + | -3.66 | + | -1.96 |
| PLD3 | Q8IV08 | + | -2.82 | + | -3.09 | + | -2.82 | + | -2.66 |

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|----------|--------|---|-------|---|-------|---|-------|---|-------|
| DCPS | Q96C86 | + | -2.84 | + | -2.95 | + | -2.69 | + | -2.87 |
| PGAM1 | P18669 | + | -2.85 | + | -2.79 | + | -2.07 | + | -3.35 |
| SF3B3 | Q15393 | + | -2.85 | + | -2.91 | + | -3.39 | + | -2.48 |
| PRKAR2B | P31323 | + | -2.86 | + | -2.45 | + | -2.98 | + | -3.04 |
| MARS | P56192 | + | -2.88 | + | -2.49 | + | -4.39 | + | -2.21 |
| HSPA9 | P38646 | + | -2.88 | + | -4.52 | + | -1.78 | + | -2.56 |
| ACADS | P16219 | + | -2.89 | + | -3.40 | + | -2.53 | + | -2.80 |
| GPX1 | P07203 | + | -2.89 | + | -3.29 | + | -3.07 | + | -2.54 |
| GDF15 | Q99988 | + | -2.90 | | -0.03 | + | -4.59 | + | -3.60 |
| NAA50 | Q9GZZ1 | + | -2.90 | + | -3.53 | + | -2.90 | + | -2.53 |
| ASNA1 | O43681 | + | -2.91 | + | -3.66 | + | -1.84 | + | -3.10 |
| SARS | P49591 | + | -2.92 | + | -2.67 | + | -1.57 | + | -3.87 |
| PAFAH1B2 | P68402 | + | -2.92 | + | -3.08 | + | -2.71 | + | -2.95 |
| BCKDHA | P12694 | + | -2.93 | + | -3.00 | + | -3.02 | + | -2.83 |
| HSPA4 | P34932 | + | -2.93 | + | -1.69 | + | -1.33 | + | -4.64 |
| ALDH5A1 | P51649 | + | -2.93 | + | -3.11 | + | -2.98 | + | -2.79 |
| HSPD1 | P10809 | + | -2.93 | + | -4.19 | + | -2.81 | + | -2.25 |
| COPB2 | P35606 | + | -2.93 | + | -3.13 | + | -2.35 | + | -3.17 |
| EIF2A | Q9BY44 | + | -2.94 | + | -2.77 | + | -2.39 | + | -3.37 |
| GFPT1 | Q06210 | + | -2.94 | + | -3.49 | + | -1.73 | + | -3.33 |
| ATP6V1H | Q9UI12 | + | -2.94 | + | -2.72 | + | -2.52 | + | -3.32 |
| DYNC1I1 | O14576 | + | -2.94 | + | -2.84 | + | -3.14 | + | -2.89 |
| PPME1 | Q9Y570 | + | -2.96 | + | -2.46 | + | -2.96 | + | -3.26 |
| SRSF1 | Q07955 | + | -2.96 | + | -4.35 | + | -3.07 | + | -2.06 |
| RPL10A | P62906 | + | -2.97 | + | -4.06 | + | -2.78 | + | -2.42 |
| MAT2B | Q9NZL9 | + | -2.97 | + | -2.98 | + | -2.39 | + | -3.31 |
| AHCYL1 | O43865 | + | -2.97 | + | -1.72 | + | -1.08 | + | -4.85 |
| PLAA | Q9Y263 | + | -2.97 | + | -3.24 | + | -2.18 | + | -3.28 |
| MLEC | Q14165 | + | -2.97 | + | -3.19 | + | -1.89 | + | -3.49 |
| DCTN4 | Q9UJW0 | + | -2.97 | + | -1.94 | + | -3.39 | + | -3.34 |
| UBA2 | Q9UBT2 | + | -2.98 | | -1.61 | | -1.72 | + | -4.55 |
| RPS27 | P42677 | + | -2.98 | + | -4.67 | + | -2.32 | + | -2.37 |
| SEPT6 | Q14141 | + | -2.99 | + | -1.58 | + | -1.38 | + | -4.80 |
| GSTM2 | P28161 | + | -3.00 | + | -2.79 | + | -3.22 | + | -2.99 |
| RAB3C | Q96E17 | + | -3.00 | + | -3.22 | + | -3.04 | + | -2.85 |

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|----------|--------|---|-------|---|-------|---|-------|---|-------|
| SSR1 | P43307 | + | -3.01 | + | -2.91 | + | -2.58 | + | -3.33 |
| GARS | P41250 | + | -3.02 | + | -3.42 | | -1.16 | + | -3.90 |
| MAPK1 | P28482 | + | -3.02 | + | -2.94 | + | -2.35 | + | -3.47 |
| COPB1 | P53618 | + | -3.03 | + | -2.78 | + | -3.07 | + | -3.16 |
| PGLS | O95336 | + | -3.04 | + | -3.22 | + | -1.86 | + | -3.63 |
| EIF3C | Q99613 | + | -3.04 | + | -4.27 | + | -2.38 | + | -2.70 |
| CPE | P16870 | + | -3.05 | + | -3.45 | + | -3.25 | + | -2.69 |
| OCA2 | Q04671 | + | -3.07 | + | -2.77 | + | -3.49 | + | -3.00 |
| DPYSL5 | Q9BPU6 | + | -3.07 | + | -3.74 | + | -3.59 | + | -2.36 |
| RPS9 | P46781 | + | -3.07 | + | -3.06 | + | -3.89 | + | -2.59 |
| EML2 | O95834 | + | -3.08 | + | -2.02 | + | -3.71 | + | -3.34 |
| NDRG2 | Q9UN36 | + | -3.09 | + | -3.02 | + | -3.31 | + | -3.00 |
| RRBP1 | Q9P2E9 | + | -3.10 | + | -3.27 | + | -3.41 | + | -2.81 |
| ACTA2 | P62736 | + | -3.12 | + | -3.17 | + | -2.14 | + | -3.67 |
| TMED7 | Q9Y3B3 | + | -3.13 | + | -3.18 | + | -2.60 | + | -3.40 |
| HINT2 | Q9BX68 | + | -3.13 | + | -3.21 | + | -3.56 | + | -2.82 |
| SUCLG2 | Q96I99 | + | -3.13 | + | -3.08 | + | -2.58 | + | -3.50 |
| RNPEP | Q9H4A4 | + | -3.15 | + | -4.52 | + | -2.15 | + | -2.92 |
| PGM5 | Q15124 | + | -3.15 | + | -3.30 | + | -3.22 | + | -3.02 |
| DNPEP | Q9ULA0 | + | -3.16 | + | -3.98 | + | -2.97 | + | -2.78 |
| HDHD2 | Q9H0R4 | + | -3.16 | + | -3.00 | + | -3.34 | + | -3.15 |
| GPS1 | Q13098 | + | -3.19 | + | -3.49 | + | -3.26 | + | -2.98 |
| OTUB1 | Q96FW1 | + | -3.20 | + | -3.08 | + | -2.78 | + | -3.52 |
| MYO1D | O94832 | + | -3.21 | | -1.11 | | -0.42 | + | -6.15 |
| COPS6 | Q7L5N1 | + | -3.21 | + | -3.41 | + | -3.58 | + | -2.87 |
| SEC13 | P55735 | + | -3.23 | + | -3.80 | + | -3.51 | + | -2.71 |
| ALDH18A1 | P54886 | + | -3.23 | + | -2.94 | + | -3.05 | + | -3.51 |
| GSTM3 | P21266 | + | -3.23 | + | -2.30 | + | -4.08 | + | -3.28 |
| AP1M1 | Q9BXS5 | + | -3.23 | + | -4.25 | + | -2.35 | + | -3.16 |
| BUB3 | O43684 | + | -3.24 | + | -3.88 | + | -2.62 | + | -3.22 |
| SEPT11 | Q9NVA2 | + | -3.24 | + | -1.28 | + | -1.71 | + | -5.33 |
| PRPF19 | Q9UMS4 | + | -3.25 | + | -3.53 | + | -3.25 | + | -3.08 |
| RPS12 | P25398 | + | -3.25 | + | -4.39 | + | -1.77 | + | -3.46 |
| HNRNPK | P61978 | + | -3.26 | + | -5.05 | + | -3.23 | + | -2.20 |
| ETFB | P38117 | + | -3.27 | + | -3.34 | + | -3.25 | + | -3.23 |

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|----------|--------|---|-------|---|-------|---|-------|---|-------|
| OSGEP | Q9NPF4 | + | -3.29 | + | -2.62 | + | -3.27 | + | -3.70 |
| ACAT1 | P24752 | + | -3.29 | + | -3.07 | + | -4.08 | + | -2.94 |
| KATNAL2 | Q8IYT4 | + | -3.30 | + | -3.13 | + | -2.92 | + | -3.62 |
| ABHD14B | Q96IU4 | + | -3.32 | + | -3.43 | + | -2.52 | + | -3.72 |
| PDXP | Q96GD0 | + | -3.32 | + | -3.79 | + | -3.38 | + | -3.00 |
| ALDH6A1 | Q02252 | + | -3.32 | + | -3.62 | + | -3.78 | + | -2.87 |
| HNRNPA3 | P51991 | + | -3.33 | + | -4.01 | + | -2.93 | + | -3.16 |
| PHPT1 | Q9NRX4 | + | -3.33 | + | -2.61 | + | -3.85 | + | -3.46 |
| VAT1 | Q99536 | + | -3.34 | + | -2.12 | + | -1.51 | + | -5.17 |
| LMAN1 | P49257 | + | -3.35 | + | -2.84 | + | -4.55 | + | -2.92 |
| TM9SF4 | Q92544 | + | -3.35 | + | -3.50 | + | -2.97 | + | -3.48 |
| VCP | P55072 | + | -3.35 | + | -4.03 | + | -1.69 | + | -3.93 |
| ABAT | P80404 | + | -3.35 | + | -3.12 | + | -3.01 | + | -3.69 |
| PGRMC1 | O00264 | + | -3.35 | + | -4.33 | + | -2.71 | + | -3.14 |
| BCKDHB | P21953 | + | -3.36 | + | -3.75 | + | -3.11 | + | -3.29 |
| PRKACB | P22694 | + | -3.36 | + | -2.79 | + | -2.91 | + | -3.98 |
| COPS5 | Q92905 | + | -3.38 | + | -3.92 | + | -2.05 | + | -3.85 |
| GCLC | P48506 | + | -3.38 | + | -3.49 | + | -3.09 | + | -3.49 |
| ATP6V1E1 | P36543 | + | -3.39 | + | -3.15 | + | -1.96 | + | -4.38 |
| C1orf123 | Q9NWV4 | + | -3.40 | + | -2.90 | + | -3.89 | + | -3.41 |
| PCSK2 | P16519 | + | -3.41 | + | -3.18 | + | -3.22 | + | -3.67 |
| GMPPB | Q9Y5P6 | + | -3.42 | + | -3.75 | + | -2.30 | + | -3.90 |
| RPN2 | P04844 | + | -3.42 | + | -3.23 | + | -3.96 | + | -3.21 |
| ARPC1A | Q92747 | + | -3.43 | + | -5.39 | + | -5.43 | + | -1.06 |
| TXNL1 | O43396 | + | -3.44 | + | -3.95 | + | -3.07 | + | -3.35 |
| TM9SF2 | Q99805 | + | -3.44 | + | -2.90 | + | -1.70 | + | -4.81 |
| EIF3A | Q14152 | + | -3.44 | + | -3.92 | + | -3.74 | + | -2.98 |
| ETFA | P13804 | + | -3.45 | + | -4.01 | + | -3.47 | + | -3.09 |
| VAMP8 | Q9BV40 | + | -3.46 | + | -3.70 | + | -2.67 | + | -3.78 |
| DDX39B | Q13838 | + | -3.46 | + | -4.45 | + | -4.57 | + | -2.20 |
| PYGL | P06737 | + | -3.48 | + | -1.92 | + | -4.28 | + | -3.93 |
| ACSS3 | Q9H6R3 | + | -3.49 | + | -3.33 | + | -2.99 | + | -3.89 |
| CORO1A | P31146 | + | -3.49 | + | -3.47 | + | -2.92 | + | -3.85 |
| OAT | P04181 | + | -3.49 | + | -3.70 | + | -3.10 | + | -3.60 |

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|----------|--------|---|-------|---|-------|---|-------|---|-------|
| ARPC4 | P59998 | + | -3.50 | + | -5.05 | + | -4.19 | + | -2.15 |
| SYN1 | P17600 | + | -3.54 | + | -3.23 | + | -3.97 | + | -3.46 |
| AVP | P01185 | + | -3.54 | + | -4.00 | + | -3.49 | + | -3.29 |
| PURA | Q00577 | + | -3.55 | + | -3.83 | + | -2.77 | + | -3.84 |
| RPS20 | P60866 | + | -3.55 | + | -6.21 | + | -2.51 | + | -2.57 |
| ACO1 | P21399 | + | -3.55 | + | -2.52 | + | -5.72 | + | -2.87 |
| FSCN1 | Q16658 | + | -3.57 | + | -4.89 | + | -3.95 | + | -2.56 |
| ENO2 | P09104 | + | -3.59 | + | -2.56 | + | -3.21 | + | -4.43 |
| DDOST | P39656 | + | -3.61 | + | -4.26 | + | -3.97 | + | -3.00 |
| RAB14 | P61106 | + | -3.61 | + | -3.84 | + | -3.02 | + | -3.82 |
| NSF | P46459 | + | -3.63 | + | -4.49 | + | -2.75 | + | -3.63 |
| PRDX4 | Q13162 | + | -3.63 | + | -3.54 | | -2.53 | + | -4.34 |
| NUTF2 | P61970 | + | -3.63 | + | -3.50 | + | -3.97 | + | -3.51 |
| ALDH9A1 | P49189 | + | -3.63 | + | -3.17 | + | -4.70 | + | -3.27 |
| PSMC2 | P35998 | + | -3.65 | + | -3.85 | + | -4.20 | + | -3.20 |
| IDH1 | O75874 | + | -3.65 | + | -2.85 | + | -1.41 | + | -5.48 |
| TUBB2B | Q9BVA1 | + | -3.65 | + | -3.81 | + | -1.71 | + | -4.73 |
| HSPB1 | P04792 | + | -3.65 | + | -2.18 | + | -4.07 | + | -4.29 |
| AGL | P35573 | + | -3.65 | + | -3.22 | + | -4.18 | + | -3.60 |
| PPA1 | Q15181 | + | -3.66 | + | -3.66 | + | -2.05 | + | -4.62 |
| UCHL3 | P15374 | + | -3.67 | + | -3.72 | + | -3.95 | + | -3.48 |
| ACOT7 | O00154 | + | -3.68 | + | -3.25 | + | -1.39 | + | -5.30 |
| VAT1L | Q9HCJ6 | + | -3.68 | + | -3.95 | + | -3.58 | + | -3.57 |
| PSMD3 | O43242 | + | -3.68 | + | -4.21 | + | -3.79 | + | -3.30 |
| GDI1 | P31150 | + | -3.71 | + | -4.79 | + | -2.76 | + | -3.63 |
| SRSF7 | Q16629 | + | -3.71 | + | -3.94 | + | -2.81 | + | -4.11 |
| ATP6V0D1 | P61421 | + | -3.73 | + | -2.84 | + | -2.14 | + | -5.21 |
| SEPT8 | Q92599 | + | -3.73 | + | -4.07 | + | -2.64 | + | -4.18 |
| CLASP2 | O75122 | + | -3.73 | | -3.37 | | -4.04 | + | -3.76 |
| COPS3 | Q9UNS2 | + | -3.74 | + | -3.33 | + | -4.08 | + | -3.79 |
| USO1 | O60763 | + | -3.75 | + | -3.13 | + | -4.03 | + | -3.95 |
| PAFAH1B1 | P43034 | + | -3.75 | + | -3.57 | + | -2.66 | + | -4.51 |
| NDUFV1 | P49821 | + | -3.75 | + | -3.68 | + | -3.44 | + | -3.99 |
| GMPR2 | Q9P2T1 | + | -3.76 | + | -3.52 | + | -3.62 | + | -3.99 |
| SEPT5 | Q99719 | + | -3.77 | + | -3.79 | + | -3.67 | + | -3.80 |

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|---------|------------|---|-------|---|-------|---|-------|---|-------|
| GLG1 | Q92896 | + | -3.77 | + | -4.91 | + | -2.54 | + | -3.83 |
| PGD | P52209 | + | -3.77 | + | -3.26 | + | -3.37 | + | -4.32 |
| SHMT2 | P34897 | + | -3.79 | + | -4.22 | + | -3.80 | + | -3.51 |
| HNRNPD | Q14103 | + | -3.80 | + | -4.36 | + | -3.04 | + | -3.92 |
| KHSRP | Q92945 | + | -3.80 | + | -3.47 | + | -3.70 | + | -4.06 |
| RPL23 | P62829 | + | -3.82 | + | -3.59 | + | -4.74 | + | -3.40 |
| SEPT7 | Q16181 | + | -3.83 | + | -2.12 | + | -2.31 | + | -5.76 |
| VPS29 | Q9UBQ0 | + | -3.86 | + | -5.04 | + | -2.22 | + | -4.13 |
| RPL11 | P62913 | + | -3.86 | + | -4.62 | + | -1.87 | + | -4.60 |
| TCHH | Q07283 | + | -3.86 | | -4.00 | | -3.79 | + | -3.82 |
| INA | Q16352 | + | -3.88 | + | -4.09 | + | -4.18 | + | -3.56 |
| CD36 | P16671 | + | -3.89 | + | -5.81 | + | 1.88 | + | -6.21 |
| ACADVL | P49748 | + | -3.90 | + | -3.91 | + | -3.24 | + | -4.28 |
| PGM3 | O95394 | + | -3.92 | + | -4.09 | + | -3.83 | + | -3.88 |
| PMEL | P40967 | + | -3.93 | | -0.86 | | -1.32 | + | -7.33 |
| RPL12 | P30050 | + | -3.95 | + | -4.93 | + | -3.31 | + | -3.73 |
| BGN | P21810 | + | -3.96 | + | -3.74 | + | -3.88 | + | -4.15 |
| DDX17 | Q92841 | + | -4.00 | + | -4.09 | + | -4.75 | + | -3.48 |
| SCFD1 | Q8WVM 8 | + | -4.01 | + | -4.37 | + | -3.68 | + | -3.99 |
| RPS16 | P62249 | + | -4.01 | + | -6.19 | + | -4.58 | + | -2.37 |
| EPHX1 | P07099 | + | -4.01 | | -0.94 | + | -4.36 | + | -5.64 |
| GNAO1 | P09471 | + | -4.01 | + | -1.57 | + | -2.54 | + | -6.36 |
| MAT2A | P31153 | + | -4.01 | + | -4.72 | + | -2.29 | + | -4.63 |
| AK1 | P00568 | + | -4.06 | + | -4.95 | + | -2.45 | + | -4.49 |
| HADHB | P55084 | + | -4.07 | + | -4.04 | + | -3.94 | + | -4.16 |
| ARCN1 | P48444 | + | -4.08 | + | -4.04 | + | -3.56 | + | -4.42 |
| DYNC1I2 | Q13409 | + | -4.10 | + | -4.45 | + | -3.89 | + | -4.02 |
| HSP90B1 | P14625 | + | -4.13 | + | -5.71 | + | -3.19 | + | -3.76 |
| PRPS1 | P60891 | + | -4.14 | + | -4.96 | + | -3.41 | + | -4.08 |
| SYT1 | P21579 | + | -4.15 | + | -5.07 | + | -3.74 | + | -3.84 |
| TAGLN | Q01995 | + | -4.15 | + | -4.47 | + | -3.27 | + | -4.49 |
| COPS4 | Q9BT78 | + | -4.17 | + | -3.88 | + | -4.41 | + | -4.21 |
| GSTM5 | P46439 | + | -4.18 | + | -4.42 | + | -4.17 | + | -4.04 |
| IDH3A | P50213 | + | -4.18 | + | -3.81 | + | -4.14 | + | -4.42 |

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|----------|--------|---|-------|---|-------|---|-------|---|-------|
| TKT | P29401 | + | -4.20 | + | -5.61 | + | -2.16 | + | -4.58 |
| SLC16A6 | O15403 | + | -4.20 | + | -5.52 | | -0.42 | + | -5.68 |
| SUCLG1 | P53597 | + | -4.21 | + | -4.13 | + | -4.36 | + | -4.16 |
| GNB3 | P16520 | + | -4.21 | + | -4.44 | + | -3.97 | + | -4.22 |
| PDHB | P11177 | + | -4.21 | + | -4.23 | + | -3.74 | + | -4.48 |
| LGI3 | Q8N145 | + | -4.23 | + | -4.03 | + | -4.01 | + | -4.47 |
| RBBP4 | Q09028 | + | -4.23 | + | -4.10 | + | -4.03 | + | -4.43 |
| FH | P07954 | + | -4.24 | + | -4.35 | + | -3.88 | + | -4.40 |
| VARS | P26640 | + | -4.29 | + | -3.39 | + | -3.57 | + | -5.27 |
| SCRN1 | Q12765 | + | -4.30 | + | -4.79 | + | -3.04 | + | -4.76 |
| CMAS | Q8NFW8 | + | -4.30 | + | -3.71 | + | -4.21 | + | -4.72 |
| HSPA2 | P54652 | + | -4.30 | + | -6.76 | + | 0.55 | + | -5.75 |
| COPG1 | Q9Y678 | + | -4.32 | + | -4.61 | + | -4.39 | + | -4.10 |
| COPS2 | P61201 | + | -4.36 | + | -5.15 | + | -4.01 | + | -4.11 |
| CRYZ | Q08257 | + | -4.37 | + | -3.50 | + | -5.06 | + | -4.47 |
| IVD | P26440 | + | -4.39 | + | -4.65 | + | -4.48 | + | -4.19 |
| PRMT1 | Q99873 | + | -4.40 | + | -5.44 | + | -4.38 | + | -3.79 |
| RTCB | Q9Y310 | + | -4.40 | + | -3.76 | + | -2.29 | + | -6.06 |
| ACTR1A | P61163 | + | -4.48 | + | -5.27 | + | -5.17 | + | -3.60 |
| ADH5 | P11766 | + | -4.51 | + | -3.85 | + | -4.41 | + | -4.96 |
| MAPK3 | P27361 | + | -4.53 | + | -4.64 | + | -4.11 | + | -4.71 |
| HNRNPA1 | P09651 | + | -4.61 | + | -6.19 | + | -4.72 | + | -3.60 |
| PGM1 | P36871 | + | -4.61 | + | -3.60 | + | -4.55 | + | -5.26 |
| COPA | P53621 | + | -4.63 | + | -5.01 | + | -4.52 | + | -4.47 |
| CTBP1 | Q13363 | + | -4.65 | + | -4.54 | + | -4.24 | + | -4.96 |
| ARL3 | P36405 | + | -4.65 | + | -4.66 | + | -5.02 | + | -4.43 |
| KIAA1324 | Q6UXG2 | + | -4.72 | + | -4.80 | + | -4.32 | + | -4.91 |
| MAP1B | P46821 | + | -4.73 | + | -4.92 | + | -4.91 | + | -4.51 |
| FARSB | Q9NSD9 | + | -4.74 | + | -5.76 | + | -5.02 | + | -3.96 |
| TARS | P26639 | + | -4.74 | + | -5.69 | + | -4.94 | + | -4.05 |
| PPID | Q08752 | + | -4.75 | + | -4.73 | + | -4.66 | + | -4.81 |
| SUCLA2 | Q9P2R7 | + | -4.78 | + | -4.77 | + | -4.36 | + | -5.03 |
| HPRT1 | P00492 | + | -4.80 | + | -5.24 | + | -4.38 | + | -4.80 |
| ATP6V0A1 | Q93050 | + | -4.81 | + | -4.10 | + | -3.59 | + | -5.97 |
| GMPPA | Q96IJ6 | + | -4.83 | + | -3.91 | + | -5.09 | + | -5.23 |

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|----------|--------|---|-------|---|-------|---|-------|---|-------|
| TKFC | Q3LXA3 | + | -4.89 | + | -5.05 | + | -4.32 | + | -5.14 |
| CAND1 | Q86VP6 | + | -4.90 | + | -5.74 | + | -3.25 | + | -5.39 |
| GBE1 | Q04446 | + | -4.96 | + | -4.54 | + | -5.13 | + | -5.11 |
| PAFAH1B3 | Q15102 | + | -4.98 | + | -5.67 | + | -3.36 | + | -5.53 |
| CTSK | P43235 | + | -5.00 | + | -5.42 | + | -4.42 | + | -5.09 |
| NEFL | P07196 | + | -5.03 | + | -5.39 | + | -5.08 | + | -4.80 |
| OXCT1 | P55809 | + | -5.07 | + | -5.29 | + | -4.48 | + | -5.30 |
| GOT2 | P00505 | + | -5.08 | + | -5.15 | + | -5.67 | + | -4.69 |
| PDHA1 | P08559 | + | -5.12 | + | -4.97 | + | -5.39 | + | -5.06 |
| LAP3 | P28838 | + | -5.16 | + | -5.18 | + | -3.85 | + | -5.94 |
| TYR | P14679 | + | -5.17 | + | -5.13 | + | -5.48 | + | -5.00 |
| IDH2 | P48735 | + | -5.17 | + | -5.99 | + | -4.72 | + | -4.95 |
| CS | O75390 | + | -5.23 | + | -5.19 | + | -5.42 | + | -5.15 |
| GPM6A | P51674 | + | -5.25 | + | -4.87 | + | -5.63 | + | -5.24 |
| STXBP1 | P61764 | + | -5.42 | + | -5.36 | + | -2.80 | + | -7.04 |
| ATP1A3 | P13637 | + | -5.43 | + | -5.70 | + | -5.58 | + | -5.17 |
| ALDH1A2 | O94788 | + | -5.43 | + | -5.93 | + | -4.83 | + | -5.48 |
| PGAM4 | Q8N0Y7 | + | -5.44 | + | -5.42 | + | -5.24 | + | -5.56 |
| NANS | Q9NR45 | + | -5.47 | + | -4.80 | + | -5.77 | + | -5.68 |
| DLD | P09622 | + | -5.52 | + | -5.37 | + | -5.13 | + | -5.86 |
| LTA4H | P09960 | + | -5.61 | + | -5.92 | + | -4.18 | + | -6.27 |
| ATP6V1B2 | P21281 | + | -5.62 | + | -4.56 | + | -3.61 | + | -7.46 |
| SELENBP1 | Q13228 | + | -5.64 | + | -5.79 | + | -6.17 | + | -5.23 |
| RAB3A | P20336 | + | -5.71 | + | -6.32 | + | -5.38 | + | -5.53 |
| GLUD2 | P49448 | + | -5.88 | + | -5.39 | + | -6.46 | + | -5.83 |
| CADPS | Q9ULU8 | + | -5.97 | + | -6.28 | + | -5.70 | + | -5.95 |
| OGDH | Q02218 | + | -6.03 | + | -6.54 | + | -5.78 | + | -5.88 |
| CKB | P12277 | + | -6.05 | + | -6.87 | + | -5.50 | + | -5.89 |
| RPS3 | P23396 | + | -6.07 | + | -7.36 | + | -6.87 | + | -4.81 |
| DLAT | P10515 | + | -6.09 | + | -5.96 | + | -6.36 | + | -6.01 |
| HYOU1 | Q9Y4L1 | + | -6.26 | + | -6.56 | + | -5.98 | + | -6.25 |
| CNN1 | P51911 | + | -6.27 | + | -6.42 | + | -6.12 | + | -6.26 |
| TYRP1 | P17643 | + | -6.37 | + | -4.01 | + | -6.49 | + | -7.72 |
| MDH2 | P40926 | + | -6.46 | + | -6.20 | + | -6.50 | + | -6.60 |
| CRMP1 | Q14194 | + | -6.55 | + | -6.64 | + | -6.68 | + | -6.41 |

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|---------|--------|---|-------|---|--------|---|-------|---|-------|
| ATP6V1A | P38606 | + | -6.57 | + | -5.62 | + | -5.08 | + | -8.03 |
| CUL4B | Q13620 | + | -6.73 | + | -6.73 | + | -6.20 | + | -7.04 |
| NPEPPS | P55786 | + | -6.73 | + | -6.41 | + | -6.28 | + | -7.20 |
| ALDH2 | P05091 | + | -6.79 | + | -7.44 | + | -6.49 | + | -6.59 |
| FBN1 | P35555 | + | -6.89 | + | -6.55 | + | -7.14 | + | -6.94 |
| ACTBL2 | Q562R1 | + | -6.92 | + | -8.23 | + | -7.54 | + | -5.75 |
| PGM2 | Q96G03 | + | -6.96 | + | -7.22 | + | -7.22 | + | -6.65 |
| DPP4 | P27487 | + | -7.02 | + | -7.59 | + | -7.20 | + | -6.57 |
| ATP5F1A | P25705 | + | -7.10 | + | -8.12 | + | -7.78 | + | -6.08 |
| EEF1A2 | Q05639 | + | -7.17 | + | -6.80 | + | -7.81 | + | -7.01 |
| DPYSL3 | Q14195 | + | -7.55 | + | -7.69 | + | -7.48 | + | -7.50 |
| ACO2 | Q99798 | + | -7.68 | + | -6.96 | + | -8.23 | + | -7.78 |
| ATP5F1B | P06576 | + | -7.77 | + | -9.79 | + | -8.51 | + | -6.11 |
| IGSF1 | Q8N6C5 | + | -8.62 | + | -8.32 | + | -8.95 | + | -8.61 |
| UCHL1 | P09936 | + | -9.06 | + | -9.16 | + | -8.46 | + | -9.37 |
| ALDH1A1 | P00352 | + | -9.24 | + | -10.03 | + | -7.66 | + | -9.71 |
| DPYSL2 | Q16555 | + | -9.66 | + | -10.44 | + | -9.46 | + | -9.31 |