Supplementary Table 1: Log2 fold change of the differentially expressed genes between osteoarthritis and normal.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Symbol | E-MTAB-6266 | GSE114007 | GSE117999 | GSE12021 | GSE1919 | GSE32317 | GSE55235 | GSE55457 | GSE82107 | mean.lfc |
| ABCC3 | -0.75 | 1.06 | 0.01 | 0.13 | 1.04 | 1.29 | 0.71 | 0.20 | 0.56 | 0.47 |
| ABCD3 | 0.45 | 0.41 | -0.11 | 0.19 | 0.11 | 0.47 | 0.40 | 0.17 | -0.16 | 0.21 |
| ABHD14A | 0.30 | 0.18 | -0.48 | 1.06 | 0.46 | 0.84 | 0.81 | 1.07 | 0.49 | 0.53 |
| ACOT13 | 0.21 | 0.38 | -0.21 | 0.77 | 0.45 | 0.90 | 0.71 | 0.73 | -0.37 | 0.40 |
| ACOT7 | -0.34 | 0.28 | 0.09 | 0.67 | 0.29 | 1.56 | 0.87 | 0.73 | 0.75 | 0.54 |
| ACOX1 | 0.34 | 0.17 | 0.04 | 0.35 | -0.07 | 0.50 | 0.13 | 0.32 | 0.41 | 0.24 |
| ACOX2 | 0.07 | 0.98 | -0.07 | 0.38 | 0.15 | 0.19 | 0.43 | 0.39 | 0.34 | 0.32 |
| ACP2 | 0.14 | 0.41 | 0.05 | 0.52 | 0.61 | 1.33 | 0.72 | 0.54 | 0.45 | 0.53 |
| ACP5 | 0.93 | 0.69 | 0.25 | 0.15 | 0.81 | 1.27 | 0.95 | 0.20 | 1.19 | 0.71 |
| ADAMTS3 | 0.97 | 0.50 | 0.25 | 0.25 | 0.49 | 1.57 | 0.40 | 0.30 | 0.98 | 0.64 |
| ADCY7 | 0.18 | 1.40 | 0.01 | 0.46 | 0.94 | 0.37 | 1.25 | 0.52 | 0.68 | 0.64 |
| ADK | -0.02 | -0.06 | 0.04 | 0.82 | -0.09 | 0.29 | 0.41 | 0.74 | 0.07 | 0.25 |
| ADO | 0.68 | 0.93 | -0.02 | 0.27 | 0.07 | 0.94 | 0.32 | 0.27 | 0.37 | 0.43 |
| ADORA3 | -0.10 | 0.77 | 0.29 | 1.12 | 1.00 | 2.20 | 0.66 | 1.04 | 0.13 | 0.79 |
| AGA | 0.40 | 0.77 | -0.15 | 0.83 | 0.32 | 0.75 | 0.53 | 0.80 | 0.25 | 0.50 |
| AGGF1 | 0.37 | 0.29 | 0.28 | 0.51 | 0.02 | 0.44 | 0.23 | 0.49 | 0.02 | 0.29 |
| AGPAT1 | -0.06 | 0.42 | -0.02 | 0.34 | -0.01 | 0.62 | 0.22 | 0.36 | 0.27 | 0.24 |
| AGPS | 0.36 | 0.88 | 0.11 | 0.58 | 0.47 | 0.58 | 0.62 | 0.53 | 0.42 | 0.51 |
| AIF1 | -0.88 | 1.44 | 0.08 | 0.33 | 0.77 | 0.84 | 1.11 | 0.36 | 0.23 | 0.48 |
| AIFM1 | 0.00 | 0.60 | 0.08 | 0.49 | -0.01 | 0.91 | 0.10 | 0.44 | -0.67 | 0.22 |
| AK1 | 0.60 | 0.64 | 0.20 | 0.64 | 0.49 | 0.59 | 0.91 | 0.59 | -0.36 | 0.48 |
| AKR1A1 | 0.05 | 0.46 | -0.06 | 0.45 | 0.48 | 0.97 | 0.70 | 0.47 | 0.78 | 0.48 |
| AKR7A2 | -0.14 | 0.37 | -0.03 | 0.53 | 0.56 | 0.52 | 0.81 | 0.55 | 0.51 | 0.41 |
| ALAD | 0.27 | 0.72 | -0.16 | 0.29 | 0.17 | 0.14 | 0.19 | 0.27 | 0.09 | 0.22 |
| ALG8 | -0.06 | 0.61 | -0.14 | 0.32 | 0.03 | 0.52 | 0.09 | 0.33 | 0.58 | 0.25 |
| ALOX5 | -0.31 | 0.98 | -0.21 | 0.40 | 0.75 | 2.05 | 0.97 | 0.50 | 1.29 | 0.71 |
| ANGPTL2 | 1.71 | 1.32 | 0.40 | 0.28 | 0.66 | 0.40 | 1.32 | 0.37 | 0.77 | 0.81 |
| ANKMY2 | 0.14 | -0.13 | 0.15 | 0.90 | 0.53 | 0.57 | 1.01 | 0.91 | 0.08 | 0.46 |
| ANXA4 | 0.31 | 0.34 | 0.02 | 0.49 | 0.40 | -0.13 | 0.58 | 0.48 | 0.58 | 0.34 |
| AP1B1 | -0.14 | 0.62 | 0.21 | 0.29 | 0.58 | 1.54 | 0.67 | 0.27 | 0.29 | 0.48 |
| AP1S2 | 0.19 | 0.44 | 0.21 | 0.37 | 0.33 | 0.66 | 0.59 | 0.39 | 0.00 | 0.35 |
| AP2M1 | -0.01 | 0.65 | 0.00 | 0.27 | 0.17 | -0.09 | 0.51 | 0.29 | 0.32 | 0.23 |
| AP3B1 | 0.35 | 0.03 | -0.02 | 0.43 | 0.41 | 0.54 | 0.17 | 0.42 | 0.04 | 0.26 |
| APEX2 | -0.05 | 0.46 | -0.13 | 0.31 | 0.08 | 0.50 | 0.09 | 0.32 | 0.05 | 0.18 |
| ARHGDIB | 0.37 | 1.51 | 0.33 | 0.13 | 0.69 | 0.68 | 0.56 | 0.18 | 0.19 | 0.51 |
| ARHGEF9 | 0.18 | 0.39 | -0.08 | 0.43 | 0.01 | 0.16 | 0.29 | 0.44 | 0.49 | 0.26 |
| ARL1 | 0.44 | 0.17 | -0.25 | 0.61 | 0.44 | -0.06 | 0.34 | 0.63 | 0.27 | 0.29 |
| ARL2BP | 0.41 | 0.63 | 0.12 | 0.50 | 0.20 | 0.22 | 0.52 | 0.47 | 0.65 | 0.41 |
| ARL6IP5 | 0.36 | 0.46 | 0.11 | 0.33 | 0.26 | -0.18 | 0.55 | 0.28 | 0.24 | 0.27 |
| ARMCX2 | 0.15 | -0.13 | -0.41 | 0.67 | 0.58 | 1.44 | 0.82 | 0.66 | 0.89 | 0.52 |
| ARMCX6 | 0.20 | -0.14 | 0.51 | 0.66 | 0.31 | 0.66 | 0.55 | 0.65 | 0.33 | 0.41 |
| ARPC1A | -0.19 | 0.79 | -0.02 | 0.49 | 0.35 | 0.15 | 0.83 | 0.52 | 0.27 | 0.35 |
| ARPC1B | -0.30 | 0.95 | -0.31 | 0.26 | 0.53 | 1.06 | 0.90 | 0.27 | 0.82 | 0.47 |
| ARSB | 0.57 | 1.21 | 0.06 | 0.45 | 0.36 | 0.13 | 0.24 | 0.44 | 1.09 | 0.50 |
| ASAH1 | 0.34 | 0.58 | -0.27 | 0.06 | 0.08 | 0.27 | 0.50 | 0.08 | 0.08 | 0.19 |
| ASF1A | 0.40 | 0.44 | 0.20 | 1.06 | 0.16 | 0.15 | 0.65 | 1.10 | 0.09 | 0.47 |
| ASTN2 | 0.07 | 1.03 | -0.28 | 0.27 | 0.07 | 0.82 | 0.07 | 0.28 | -0.20 | 0.24 |
| ATIC | -0.02 | 0.72 | 0.06 | 0.45 | 0.04 | 0.68 | -0.12 | 0.43 | -0.06 | 0.24 |
| ATOX1 | -0.05 | 0.59 | 0.21 | 0.50 | 0.15 | 0.95 | 0.48 | 0.50 | 0.89 | 0.47 |
| ATP1B1 | 0.96 | 0.12 | 0.11 | 0.52 | 0.44 | 0.48 | 0.81 | 0.51 | -0.32 | 0.40 |
| ATP6V0B | -0.27 | 0.27 | 0.03 | 0.35 | 0.27 | 1.18 | 0.53 | 0.34 | 0.77 | 0.39 |
| ATP6V0D1 | 0.00 | 0.57 | -0.08 | 0.50 | 0.41 | 0.57 | 0.63 | 0.51 | 0.34 | 0.39 |
| ATP6V1D | 0.27 | 0.21 | -0.08 | 0.33 | 0.06 | 0.54 | 0.35 | 0.30 | 0.41 | 0.27 |
| ATRN | 0.75 | 0.48 | -0.09 | 0.42 | 0.47 | 0.67 | 0.65 | 0.40 | 0.25 | 0.44 |
| B3GALNT1 | 0.52 | 0.49 | 0.04 | 0.88 | 0.14 | 0.95 | 0.59 | 0.90 | 1.10 | 0.62 |
| B3GALT4 | 0.02 | 0.47 | 0.05 | 0.37 | 0.13 | 0.76 | 0.21 | 0.37 | 0.17 | 0.28 |
| BAD | -0.04 | 0.21 | 0.09 | 0.49 | 0.33 | 0.61 | 0.34 | 0.43 | 0.33 | 0.31 |
| BET1 | 0.36 | 0.14 | -0.32 | 0.51 | 0.22 | 0.91 | 0.37 | 0.55 | 0.62 | 0.37 |
| BEX4 | -0.06 | -0.49 | 0.44 | 0.71 | 0.19 | 0.82 | 0.19 | 0.70 | 0.86 | 0.37 |
| BLNK | -0.19 | 0.14 | 0.26 | 1.12 | 0.84 | 2.08 | 1.23 | 1.14 | 0.77 | 0.82 |
| BPGM | 0.63 | 0.99 | 0.20 | 0.63 | 0.24 | 0.56 | 0.08 | 0.61 | 0.44 | 0.49 |
| BTN3A1 | -0.08 | 0.29 | 0.20 | 0.31 | 0.56 | 1.21 | 0.57 | 0.39 | 0.55 | 0.45 |
| C14orf132 | 0.08 | -0.05 | -0.20 | 0.93 | 0.96 | 0.36 | 1.19 | 0.93 | 0.77 | 0.55 |
| C1orf123 | -0.40 | 0.44 | -0.03 | 0.35 | -0.06 | -0.09 | 0.36 | 0.34 | -0.09 | 0.09 |
| C1orf216 | 0.24 | 0.53 | 0.24 | 0.36 | 0.23 | 0.92 | 0.21 | 0.30 | 0.34 | 0.38 |
| C2 | 0.50 | 1.33 | -0.14 | 0.37 | 0.77 | 2.24 | 0.92 | 0.38 | 0.94 | 0.81 |
| CAPG | 0.42 | 0.63 | -0.04 | 0.95 | 0.87 | 1.43 | 1.48 | 0.95 | 0.92 | 0.85 |
| CASP1 | -0.99 | 0.44 | 0.27 | 0.45 | 0.34 | 0.95 | 0.76 | 0.55 | -0.03 | 0.30 |
| CBR1 | 0.30 | 0.42 | 0.09 | 0.46 | 0.03 | 0.33 | 0.63 | 0.42 | 0.26 | 0.33 |
| CBR4 | 0.48 | 0.21 | 0.04 | 0.48 | -0.02 | 0.39 | 0.32 | 0.46 | 0.09 | 0.27 |
| CBX1 | 0.25 | -0.08 | 0.17 | 0.55 | 0.55 | 0.27 | 0.73 | 0.52 | -0.20 | 0.31 |
| CCND2 | 0.61 | 0.24 | 0.28 | 0.26 | 0.56 | 0.82 | 0.71 | 0.23 | 0.88 | 0.51 |
| CD151 | 0.01 | 0.51 | 0.07 | 0.38 | 0.02 | 0.51 | 0.35 | 0.35 | 0.23 | 0.27 |
| CD33 | -0.65 | 0.65 | -0.08 | 0.34 | 0.62 | 1.06 | 0.21 | 0.39 | 0.06 | 0.29 |
| CD4 | 0.62 | 0.93 | -0.29 | 0.18 | 1.02 | 0.31 | 0.89 | 0.21 | 0.13 | 0.45 |
| CD53 | -0.54 | 1.05 | 0.11 | 0.25 | 0.85 | 1.32 | 0.64 | 0.29 | 0.49 | 0.50 |
| CD58 | 0.49 | 0.71 | -0.30 | 0.55 | 0.46 | 0.91 | 0.78 | 0.56 | 0.87 | 0.56 |
| CD86 | -0.53 | 0.92 | 0.29 | 0.69 | 0.57 | 1.65 | 0.67 | 0.72 | 0.41 | 0.60 |
| CDH11 | -0.44 | 1.63 | 0.27 | 0.64 | 1.54 | 1.77 | 1.62 | 0.75 | 1.14 | 0.99 |
| CDK14 | 0.64 | 0.55 | 0.05 | 0.47 | 0.84 | 1.31 | 0.65 | 0.49 | -0.01 | 0.55 |
| CDK5 | 0.38 | 0.86 | 0.02 | 0.49 | 0.29 | 0.86 | 0.40 | 0.51 | 0.40 | 0.47 |
| CDON | 1.44 | 0.02 | 0.14 | -0.18 | 0.42 | 0.52 | 0.43 | -0.15 | 1.04 | 0.41 |
| CEBPA | -0.46 | -0.84 | 0.29 | 1.09 | 0.02 | 0.86 | 1.39 | 1.06 | -0.12 | 0.37 |
| CETN2 | 0.25 | 0.35 | -0.18 | 0.57 | 0.54 | 0.26 | 0.81 | 0.62 | 0.47 | 0.41 |
| CFI | 1.09 | 2.95 | 0.10 | 0.54 | 1.13 | 1.93 | 1.37 | 0.55 | 0.93 | 1.18 |
| CHEK2 | -0.14 | 0.36 | 0.39 | 0.48 | 0.01 | 1.00 | 0.14 | 0.45 | -0.05 | 0.29 |
| CHRNB1 | 0.72 | 0.36 | 0.15 | 0.59 | 0.11 | 0.32 | 0.23 | 0.56 | -0.25 | 0.31 |
| CHST2 | 0.69 | 1.21 | 0.15 | 0.11 | 0.86 | 2.21 | 0.92 | 0.25 | 0.52 | 0.77 |
| CIB1 | -0.47 | -0.12 | -0.41 | 0.37 | 0.44 | 0.65 | 0.49 | 0.36 | 1.02 | 0.26 |
| CIT | -0.67 | 1.77 | -0.14 | -0.29 | 1.00 | 0.54 | 0.71 | -0.17 | -0.02 | 0.30 |
| CLASP2 | 0.60 | -0.43 | -0.05 | 0.39 | 0.19 | 0.44 | 0.00 | 0.38 | -0.13 | 0.15 |
| CLCN4 | 0.51 | 0.32 | 0.51 | 0.27 | -0.09 | 0.49 | 0.01 | 0.27 | -1.08 | 0.13 |
| CLEC11A | 0.69 | 1.23 | 0.06 | 0.05 | 0.20 | 1.41 | 0.53 | 0.05 | 0.54 | 0.53 |
| CLP1 | 0.48 | 1.17 | -0.03 | 0.46 | 0.26 | 0.29 | 0.05 | 0.46 | 0.62 | 0.42 |
| CNPY2 | 0.34 | 0.50 | 0.02 | 0.60 | 0.22 | 0.54 | 0.59 | 0.56 | 0.92 | 0.48 |
| COL1A2 | -0.21 | 2.36 | -0.10 | 0.22 | 1.13 | 0.50 | 1.55 | 0.25 | 0.70 | 0.71 |
| COL3A1 | 0.76 | 2.08 | -0.85 | 0.33 | 0.95 | 0.75 | 2.05 | 0.36 | 0.41 | 0.76 |
| COL5A2 | 0.93 | 1.50 | -0.75 | 0.16 | 0.64 | 1.17 | 1.47 | 0.21 | 1.04 | 0.71 |
| COL6A1 | 0.52 | 1.18 | -0.32 | -0.28 | -0.03 | 0.59 | 0.61 | -0.23 | 1.03 | 0.34 |
| COL8A1 | -0.44 | 1.51 | 0.26 | 0.79 | 0.63 | 0.66 | 0.12 | 0.77 | 1.49 | 0.64 |
| COMT | -0.12 | 0.73 | 0.24 | 0.58 | 0.41 | 0.94 | 0.55 | 0.58 | 0.68 | 0.51 |
| COPS7A | 0.05 | 0.31 | -0.25 | 0.41 | 0.10 | 0.55 | 0.40 | 0.41 | 0.20 | 0.24 |
| CORO1A | -0.88 | 0.94 | 0.21 | 0.52 | 0.70 | 2.32 | 0.97 | 0.53 | 0.46 | 0.64 |
| COX17 | 0.18 | 1.16 | 0.28 | 0.66 | -0.25 | 0.31 | 0.01 | 0.62 | -0.41 | 0.28 |
| CPOX | 0.20 | 0.42 | -0.11 | 0.36 | -0.04 | 0.59 | -0.05 | 0.35 | 0.43 | 0.24 |
| CPQ | 0.71 | 0.03 | 0.22 | 0.55 | 0.52 | 0.42 | 0.87 | 0.60 | 0.78 | 0.52 |
| CPVL | -0.74 | 0.01 | 0.14 | 0.46 | 1.10 | 1.32 | 1.32 | 0.47 | 0.23 | 0.48 |
| CREB3 | -0.08 | -0.30 | -0.12 | 0.50 | 0.16 | 0.50 | 0.31 | 0.43 | 0.64 | 0.23 |
| CRIP1 | 0.65 | 1.14 | 0.85 | 0.43 | 0.74 | 0.58 | 2.08 | 0.58 | 1.54 | 0.95 |
| CRLF1 | 1.20 | 1.42 | 1.46 | 0.96 | 0.23 | 1.57 | 0.17 | 0.86 | 1.11 | 1.00 |
| CRLF3 | 0.25 | 0.44 | -0.21 | 0.36 | 0.36 | 0.77 | 0.76 | 0.36 | 0.66 | 0.42 |
| CRYZ | 0.41 | 0.31 | -0.31 | 0.75 | 0.48 | 0.38 | 0.72 | 0.66 | -0.45 | 0.33 |
| CSF1R | -0.47 | 1.45 | 0.47 | 0.48 | -0.05 | 0.48 | 1.54 | 0.48 | 0.54 | 0.55 |
| CSN1S1 | 1.26 | 2.10 | 1.12 | 1.71 | 2.67 | 3.28 | 2.44 | 1.40 | 2.76 | 2.08 |
| CSTF3 | 0.41 | 0.14 | -0.15 | 0.23 | 0.35 | 0.51 | 0.20 | 0.26 | 0.40 | 0.26 |
| CTGF | 0.11 | 1.03 | -0.01 | 0.69 | 0.07 | 0.51 | 0.50 | 0.59 | 0.50 | 0.44 |
| CTSK | 0.38 | 0.90 | 0.30 | 0.44 | 0.70 | 0.34 | 0.69 | 0.44 | 1.30 | 0.61 |
| CTSO | 0.63 | 1.02 | -0.50 | 0.86 | 0.74 | 1.14 | 0.87 | 0.86 | 1.28 | 0.77 |
| CUL2 | 0.16 | 0.36 | 0.32 | 0.31 | -0.07 | 0.41 | 0.16 | 0.28 | -0.10 | 0.20 |
| CUX1 | 0.06 | 0.44 | -0.45 | 0.39 | 0.35 | 1.31 | 0.26 | 0.35 | 0.12 | 0.32 |
| CX3CR1 | 0.46 | 0.74 | 0.34 | 1.64 | 1.78 | 1.44 | 2.53 | 1.74 | -0.17 | 1.17 |
| CYBA | -0.28 | 0.62 | 0.18 | 0.37 | 0.55 | 1.28 | 1.10 | 0.40 | 0.63 | 0.54 |
| CYP11A1 | -0.17 | -0.05 | -0.27 | 0.44 | 0.13 | 0.75 | 0.34 | 0.45 | 0.01 | 0.18 |
| DAP | 0.22 | 0.60 | 0.01 | 0.73 | 0.34 | 0.29 | 0.32 | 0.69 | 0.86 | 0.45 |
| DDAH1 | 0.89 | 0.07 | -0.11 | 0.68 | -0.06 | 1.11 | 0.31 | 0.59 | 0.24 | 0.41 |
| DDOST | -0.04 | 0.25 | -0.21 | 0.45 | 0.34 | 0.86 | 0.56 | 0.46 | 0.60 | 0.37 |
| DHFR | 0.00 | 0.75 | 0.38 | 0.29 | 0.29 | 0.06 | -0.02 | 0.31 | 0.24 | 0.26 |
| DHRS1 | 0.35 | 0.53 | 0.09 | 0.60 | 0.30 | 0.67 | 0.75 | 0.56 | 0.63 | 0.50 |
| DNAJC9 | -0.42 | 0.28 | 0.06 | 0.35 | 0.13 | 0.66 | -0.02 | 0.32 | 0.44 | 0.20 |
| DNASE1L1 | -0.13 | 0.16 | -0.27 | 0.49 | 0.56 | 0.98 | 0.63 | 0.51 | 0.14 | 0.34 |
| DNASE2 | 0.18 | 0.66 | 0.04 | 0.33 | 0.55 | 0.49 | 0.29 | 0.35 | -0.38 | 0.28 |
| DOK1 | 1.16 | 0.83 | 0.14 | 0.00 | 0.41 | 0.37 | 0.42 | 0.00 | 0.15 | 0.39 |
| DOK2 | -0.53 | 0.89 | 0.16 | 0.32 | 0.59 | 1.11 | 0.67 | 0.30 | 0.19 | 0.41 |
| DOLK | 0.53 | 1.32 | -0.04 | 0.33 | 0.19 | 0.67 | 0.26 | 0.34 | 0.56 | 0.46 |
| DPT | 0.58 | 1.36 | 0.74 | 1.08 | 0.01 | 0.14 | 1.67 | 1.02 | 1.37 | 0.88 |
| DPYS | 0.64 | 0.77 | -0.03 | 0.43 | 0.07 | 1.30 | 0.14 | 0.42 | -0.06 | 0.41 |
| DYRK4 | 0.20 | 0.26 | -0.09 | 0.44 | 0.08 | 0.70 | 0.29 | 0.46 | 0.05 | 0.27 |
| EED | 0.17 | -0.02 | -0.21 | 0.42 | 0.13 | 1.13 | 0.44 | 0.39 | 0.53 | 0.33 |
| EFEMP1 | 0.12 | 1.64 | 0.68 | 0.48 | 0.35 | 0.94 | 0.40 | 0.45 | 0.51 | 0.62 |
| EFEMP2 | 0.37 | 0.24 | 0.14 | 0.54 | 0.38 | 0.83 | 0.70 | 0.54 | 0.78 | 0.50 |
| EIF2AK1 | 0.30 | 0.06 | 0.05 | 0.33 | -0.07 | 0.35 | 0.07 | 0.29 | 0.11 | 0.17 |
| EIF4E2 | 0.09 | 0.92 | -0.18 | 0.29 | 0.28 | 0.39 | 0.30 | 0.34 | 0.60 | 0.34 |
| EMC1 | 0.30 | 0.07 | -0.14 | 0.31 | -0.08 | 0.91 | 0.15 | 0.33 | 0.08 | 0.21 |
| EML1 | 0.80 | 0.93 | -0.10 | 0.71 | 0.29 | 0.37 | 1.17 | 0.73 | 0.21 | 0.57 |
| ENC1 | 1.43 | 1.77 | -0.14 | 0.39 | 0.34 | 0.81 | 0.48 | 0.45 | -0.15 | 0.60 |
| ENG | 0.56 | 1.00 | -0.15 | -0.01 | 0.26 | 1.80 | 0.57 | 0.09 | 0.78 | 0.55 |
| ENTPD1 | -0.39 | 0.41 | 0.15 | 0.52 | 0.21 | 1.02 | 0.66 | 0.57 | 0.47 | 0.40 |
| EPB41L3 | 0.57 | 0.85 | 0.24 | 0.20 | 0.46 | 1.15 | 0.62 | 0.22 | 0.82 | 0.57 |
| EPHA3 | 0.04 | 0.41 | 0.12 | 1.14 | 0.24 | 1.27 | 1.91 | 1.22 | 1.21 | 0.84 |
| EPYC | 1.15 | 0.57 | 0.21 | 1.50 | 0.41 | 3.31 | 1.40 | 1.50 | 1.33 | 1.26 |
| ERCC8 | 0.46 | 0.82 | 0.15 | 0.42 | -0.13 | 0.46 | -0.05 | 0.40 | 0.29 | 0.31 |
| ETHE1 | -0.66 | 0.01 | -0.02 | 0.39 | 0.45 | 0.71 | 0.23 | 0.38 | 0.69 | 0.24 |
| ETV5 | 0.20 | -0.08 | -0.12 | 0.40 | 0.36 | 0.90 | 0.44 | 0.43 | 0.37 | 0.32 |
| EXT2 | 0.48 | 0.39 | 0.02 | 0.49 | 0.12 | 0.56 | 0.25 | 0.48 | 0.45 | 0.36 |
| EXTL2 | 1.05 | 1.42 | 0.02 | 0.48 | 0.23 | 0.98 | 0.64 | 0.46 | 0.44 | 0.64 |
| FADD | 0.55 | 0.95 | -0.19 | 0.49 | 0.13 | 1.19 | 0.50 | 0.45 | 0.45 | 0.50 |
| FAM114A1 | 0.61 | 0.52 | -0.27 | 0.54 | 0.57 | 0.38 | 0.75 | 0.52 | 0.57 | 0.47 |
| FAM172A | 0.14 | 0.09 | 0.04 | 0.41 | 0.34 | 0.47 | 0.56 | 0.44 | 0.24 | 0.30 |
| FAM98A | 0.96 | 0.99 | 0.12 | 0.12 | 0.29 | 1.00 | 0.65 | 0.11 | 0.39 | 0.51 |
| FAP | 0.63 | 2.03 | -0.18 | 0.66 | 1.46 | 1.39 | 2.08 | 0.82 | 0.99 | 1.10 |
| FBLN5 | 0.79 | 1.55 | 0.19 | 0.74 | 0.58 | -0.08 | 0.26 | 0.73 | -0.02 | 0.53 |
| FBXO9 | 0.21 | 0.45 | -0.40 | 0.26 | 0.49 | 0.53 | 0.30 | 0.24 | 0.17 | 0.25 |
| FCGRT | -0.37 | 0.24 | 0.07 | 0.31 | 0.50 | 1.05 | 0.90 | 0.32 | 0.26 | 0.36 |
| FDX1 | -0.15 | 0.02 | -0.23 | 0.53 | -0.04 | 0.97 | 0.72 | 0.57 | 0.37 | 0.31 |
| FECH | -0.17 | 0.29 | -0.09 | 0.49 | -0.03 | 0.62 | 0.32 | 0.51 | 0.07 | 0.22 |
| FEZ2 | 0.31 | 0.40 | -0.15 | 0.37 | -0.04 | 0.65 | 0.40 | 0.35 | 0.11 | 0.27 |
| FIBP | -0.02 | 0.23 | 0.13 | 0.42 | 0.34 | 0.79 | 0.31 | 0.42 | 0.56 | 0.35 |
| FKBP1B | -0.17 | 0.30 | 0.45 | 0.64 | -0.12 | 0.72 | -0.05 | 0.56 | 1.15 | 0.39 |
| FLRT2 | 0.56 | 1.72 | 0.73 | 1.29 | 0.95 | 1.21 | 2.00 | 1.48 | 0.76 | 1.19 |
| FMNL1 | -0.50 | 1.22 | 0.05 | -0.22 | 0.31 | 0.60 | 0.47 | -0.20 | 0.02 | 0.20 |
| FMO4 | -0.25 | 0.32 | 0.29 | 0.37 | 0.04 | 0.34 | 0.15 | 0.41 | 0.25 | 0.21 |
| FOLR1 | 1.17 | 0.82 | -0.13 | 0.41 | 0.17 | 0.32 | 0.24 | 0.41 | -0.04 | 0.37 |
| FOLR2 | -0.36 | 0.72 | 0.22 | 0.47 | 0.75 | 1.11 | 1.11 | 0.47 | 0.47 | 0.55 |
| FSTL1 | 0.37 | 1.35 | 0.02 | -0.04 | 0.18 | 0.31 | 0.40 | -0.05 | 0.42 | 0.33 |
| FUCA1 | 0.31 | 1.00 | -0.04 | 0.77 | 0.76 | 1.17 | 1.40 | 0.79 | 0.42 | 0.73 |
| FUT4 | 0.98 | 1.30 | -0.15 | 0.31 | -0.08 | 0.63 | 0.09 | 0.31 | 0.59 | 0.44 |
| FUT8 | 0.37 | 0.37 | 0.23 | 0.40 | -0.03 | 0.67 | -0.11 | 0.39 | 0.70 | 0.33 |
| FZD1 | 0.69 | 1.12 | 0.21 | 1.10 | 0.37 | 0.26 | 0.86 | 1.04 | 0.92 | 0.73 |
| FZD7 | 0.93 | 0.76 | -0.06 | 0.93 | 0.63 | 1.14 | 0.70 | 0.83 | 0.46 | 0.70 |
| GAA | 0.29 | 0.46 | -0.38 | 0.42 | 0.31 | 1.78 | 0.74 | 0.41 | 0.26 | 0.48 |
| GABARAPL2 | 0.56 | 0.65 | -0.02 | 0.50 | 0.23 | 0.32 | 0.54 | 0.47 | 0.55 | 0.42 |
| GABRB1 | 0.55 | 0.63 | -0.05 | 0.88 | 0.90 | 2.27 | 1.29 | 0.93 | 0.15 | 0.84 |
| GALNT10 | -0.09 | 0.15 | -0.50 | 0.55 | 0.54 | 0.87 | 0.82 | 0.55 | 0.72 | 0.40 |
| GCHFR | -0.97 | -0.83 | -0.24 | 0.90 | 0.62 | 1.42 | 1.02 | 0.84 | 0.31 | 0.34 |
| GDE1 | 0.11 | 1.12 | 0.21 | 0.80 | 0.35 | 0.48 | 0.60 | 0.76 | 0.22 | 0.52 |
| GEMIN2 | 0.27 | 0.51 | 0.26 | 0.40 | -0.06 | 0.34 | 0.13 | 0.35 | 0.05 | 0.25 |
| GGCX | 0.58 | 0.17 | 0.03 | 0.66 | 0.17 | 0.33 | 0.39 | 0.69 | 0.24 | 0.36 |
| GLB1 | 0.53 | 0.92 | -0.33 | 0.54 | 0.62 | 1.17 | 0.90 | 0.57 | 1.04 | 0.66 |
| GLI3 | 1.05 | 1.11 | 0.42 | 0.43 | 0.32 | 0.75 | 0.34 | 0.46 | 1.31 | 0.69 |
| GLRB | 0.78 | 1.74 | -0.04 | 0.44 | 0.47 | 0.53 | 0.44 | 0.47 | 1.00 | 0.65 |
| GLT8D1 | 0.22 | 0.33 | -0.27 | 0.53 | 0.52 | 0.05 | 0.43 | 0.53 | 0.52 | 0.32 |
| GM2A | 0.35 | 0.90 | 0.19 | 0.44 | 0.43 | 0.96 | 0.78 | 0.47 | 0.87 | 0.60 |
| GMFB | 0.26 | 0.44 | -0.35 | 0.41 | 0.16 | 0.27 | 0.66 | 0.45 | 0.65 | 0.33 |
| GNPDA1 | -0.17 | 0.23 | 0.14 | 0.44 | 0.26 | 1.21 | 0.59 | 0.42 | 0.80 | 0.44 |
| GOLGA3 | 0.39 | 0.33 | -0.35 | 0.02 | 0.12 | 0.82 | 0.28 | 0.05 | 0.42 | 0.23 |
| GOT2 | 0.31 | 0.49 | 0.47 | 0.27 | 0.15 | 0.27 | 0.02 | 0.30 | -0.30 | 0.22 |
| GPAA1 | -0.15 | 0.37 | 0.21 | 0.55 | 0.16 | 0.70 | 0.41 | 0.52 | 0.46 | 0.36 |
| GPC4 | -0.16 | 1.05 | 0.45 | 0.65 | -0.21 | -0.97 | 0.10 | 0.66 | 0.04 | 0.18 |
| GPC5 | 0.16 | 0.67 | -0.07 | 0.93 | 0.34 | 1.46 | 0.26 | 0.81 | 0.26 | 0.54 |
| GPR65 | -0.45 | 0.89 | -0.14 | 0.71 | 0.21 | 2.52 | 0.89 | 0.78 | 0.30 | 0.63 |
| GPX7 | 0.44 | 1.25 | -0.23 | 0.53 | 0.27 | 1.32 | 0.58 | 0.53 | 0.65 | 0.59 |
| GRIA2 | 1.72 | 3.21 | 0.22 | 0.20 | 0.12 | 1.45 | 0.44 | 0.20 | 0.10 | 0.85 |
| GSTA4 | 0.32 | 0.25 | 0.00 | 0.66 | 0.23 | 0.51 | 0.47 | 0.64 | 0.03 | 0.35 |
| GTF2E1 | 0.71 | 1.13 | 0.15 | 0.37 | 0.26 | 1.09 | 0.65 | 0.36 | 0.08 | 0.53 |
| GUCA1A | 0.05 | 0.81 | -0.07 | 0.59 | 0.11 | -0.51 | 0.31 | 0.62 | -0.29 | 0.18 |
| GUSB | 0.65 | 0.20 | 0.00 | 0.40 | 0.35 | 0.63 | 0.64 | 0.41 | 0.81 | 0.45 |
| HEG1 | 0.28 | 1.30 | -0.07 | 0.13 | 0.74 | 0.33 | 0.59 | 0.24 | 0.60 | 0.46 |
| HEXA | 0.34 | 0.20 | -0.48 | 0.49 | 0.69 | 1.19 | 0.84 | 0.48 | 0.71 | 0.50 |
| HEXB | 0.41 | 0.13 | 0.02 | 0.46 | -0.12 | 0.48 | 0.51 | 0.45 | 0.51 | 0.32 |
| HFE | 0.40 | 0.09 | 0.25 | 0.33 | 0.42 | 0.36 | 0.28 | 0.30 | 0.43 | 0.32 |
| HIBCH | 0.27 | 0.35 | 0.20 | 0.56 | 0.09 | 0.26 | 0.54 | 0.60 | -0.17 | 0.30 |
| HK3 | -0.79 | 0.87 | -0.06 | 0.19 | 0.79 | 1.66 | 0.91 | 0.28 | 0.38 | 0.47 |
| HLA-DMB | -0.39 | 1.30 | -0.13 | 0.63 | 1.09 | 1.59 | 1.42 | 0.71 | 0.63 | 0.76 |
| HLA-DPA1 | -0.35 | 1.05 | -0.27 | -0.12 | 0.58 | 0.83 | 1.44 | -0.02 | 0.81 | 0.44 |
| HLA-DQA1 | 0.01 | 1.08 | -0.89 | 0.55 | 1.05 | 2.09 | 2.43 | 0.69 | 0.57 | 0.84 |
| HLTF | 0.25 | 0.20 | -0.07 | 0.72 | 0.26 | 0.55 | 0.92 | 0.72 | 0.32 | 0.43 |
| HMGCL | -0.18 | -0.34 | 0.44 | 0.45 | 0.21 | 0.24 | 0.27 | 0.44 | 0.13 | 0.19 |
| HMGN1 | 0.16 | 0.71 | -0.45 | 0.21 | 0.57 | 0.62 | 0.66 | 0.25 | 0.31 | 0.34 |
| HMGN4 | 0.06 | 0.41 | 0.22 | 0.45 | 0.08 | 0.31 | 0.10 | 0.42 | 0.27 | 0.26 |
| HNMT | -0.16 | 0.38 | 0.07 | 0.98 | 0.62 | 0.54 | 1.37 | 0.98 | 0.53 | 0.59 |
| HPGDS | 0.22 | 1.70 | 0.07 | 0.76 | 0.68 | 0.40 | 1.49 | 0.71 | -0.13 | 0.66 |
| HPS5 | -0.13 | -0.33 | -0.16 | 0.30 | 0.28 | 1.08 | 0.37 | 0.31 | 0.61 | 0.26 |
| HSBP1 | 0.30 | 0.98 | -0.02 | 0.29 | 0.27 | 0.05 | 0.42 | 0.31 | 0.46 | 0.34 |
| HSD17B8 | -0.51 | -0.16 | -0.10 | 0.47 | 0.26 | 0.54 | 0.40 | 0.51 | -0.41 | 0.11 |
| HTR2B | 0.83 | 0.68 | -0.35 | 1.48 | 0.11 | 1.84 | 0.81 | 1.41 | 1.19 | 0.89 |
| HTRA1 | 1.42 | 2.14 | 0.53 | 0.01 | 0.26 | 0.91 | 0.70 | -0.02 | 0.72 | 0.74 |
| HYAL1 | 0.63 | 0.19 | -0.08 | 0.58 | 0.16 | 0.53 | 0.12 | 0.60 | 0.54 | 0.36 |
| ICMT | 0.59 | 1.06 | -0.32 | 0.47 | 0.11 | 0.33 | 0.43 | 0.42 | 0.11 | 0.36 |
| IFI44 | -0.62 | 0.75 | -0.19 | 0.52 | 0.40 | 1.09 | 0.80 | 0.55 | 0.55 | 0.43 |
| IFIT1 | 0.58 | 0.89 | 0.15 | 1.15 | 0.69 | -0.09 | 1.24 | 1.19 | 0.09 | 0.65 |
| IFNAR2 | -0.05 | 0.49 | -0.10 | 0.39 | 0.27 | 0.42 | 0.15 | 0.39 | 0.19 | 0.24 |
| IFT20 | 0.36 | 0.15 | -0.45 | 0.42 | -0.09 | 0.35 | 0.32 | 0.39 | 0.58 | 0.23 |
| IGFBP1 | 1.17 | 2.99 | 0.06 | 0.32 | 0.07 | -0.29 | 0.06 | 0.30 | 0.18 | 0.54 |
| IL10RA | -0.66 | 0.39 | -0.06 | 0.56 | 0.50 | 1.39 | 0.82 | 0.61 | 1.08 | 0.52 |
| IL10RB | -0.12 | 0.37 | 0.06 | 0.39 | 0.20 | 0.83 | 0.22 | 0.38 | 0.39 | 0.30 |
| IL11RA | 0.10 | 0.12 | -0.03 | 1.10 | 0.72 | 0.66 | 1.05 | 1.00 | 0.64 | 0.59 |
| ILK | 0.45 | 0.17 | -0.04 | 0.36 | 0.28 | -0.10 | 0.35 | 0.35 | 0.18 | 0.22 |
| INSIG2 | 0.53 | -0.77 | 0.00 | 0.80 | 0.18 | 0.58 | 0.23 | 0.76 | 0.05 | 0.26 |
| INTS9 | 0.05 | 0.02 | 0.33 | 0.30 | 0.01 | 0.92 | 0.21 | 0.30 | -0.17 | 0.22 |
| IRF9 | -0.24 | 0.35 | -0.07 | 0.30 | 0.23 | 1.14 | 0.29 | 0.34 | 0.40 | 0.30 |
| IRX5 | 0.46 | 0.15 | -0.05 | 0.57 | -0.02 | 1.02 | 0.03 | 0.49 | 0.42 | 0.34 |
| ISLR | 0.51 | 0.84 | 0.20 | 0.47 | 0.48 | 0.30 | 1.39 | 0.48 | 1.10 | 0.64 |
| ITGAE | -0.26 | 0.76 | -0.03 | 0.38 | 0.02 | 0.54 | 0.29 | 0.31 | 0.31 | 0.26 |
| ITGB2 | -0.22 | 1.98 | -0.23 | 0.54 | 0.72 | 1.84 | 1.20 | 0.59 | 0.58 | 0.78 |
| ITGB5 | 0.41 | 0.83 | 0.18 | 0.18 | 0.23 | 0.32 | 0.63 | 0.17 | 0.63 | 0.40 |
| KAZALD1 | 0.44 | 0.49 | 0.01 | 0.53 | 0.57 | 0.33 | 0.54 | 0.52 | 0.24 | 0.41 |
| KCNN4 | 0.92 | 1.82 | -0.11 | 0.58 | 0.38 | 0.93 | 0.65 | 0.65 | 0.40 | 0.69 |
| KDELR2 | 0.49 | 0.60 | 0.16 | 0.25 | 0.05 | 0.48 | 0.57 | 0.25 | 0.96 | 0.42 |
| KDELR3 | 0.78 | 0.76 | -0.22 | 0.99 | 1.07 | 0.28 | 1.23 | 1.06 | 1.21 | 0.80 |
| KIAA0930 | 0.11 | 0.56 | -0.11 | 0.36 | 0.25 | 0.77 | 0.48 | 0.38 | 0.76 | 0.40 |
| KLHL9 | 0.48 | 0.26 | 0.10 | 0.31 | 0.12 | 0.45 | 0.40 | 0.32 | 0.76 | 0.36 |
| KMO | -0.35 | 0.71 | -0.50 | 0.63 | 0.09 | 0.90 | 0.32 | 0.68 | 0.11 | 0.29 |
| LAIR1 | -0.89 | 0.77 | 0.15 | 0.52 | 0.63 | 1.71 | 1.04 | 0.54 | 0.48 | 0.55 |
| LAMP2 | 0.11 | 0.48 | -0.04 | 0.50 | 0.09 | 0.74 | 0.74 | 0.52 | 0.40 | 0.39 |
| LEPROTL1 | 0.34 | 1.11 | -0.18 | 0.55 | 0.16 | 0.67 | 0.40 | 0.59 | 0.50 | 0.46 |
| LHFPL2 | 0.64 | 0.95 | -0.16 | 0.04 | 0.57 | 0.54 | 0.82 | 0.01 | 0.79 | 0.47 |
| LILRB4 | -0.05 | 1.44 | 0.14 | 0.36 | 0.91 | 1.92 | 0.60 | 0.43 | 0.14 | 0.65 |
| LIMCH1 | 0.41 | -0.11 | 0.06 | 0.64 | 0.13 | -0.37 | 0.75 | 0.64 | -0.49 | 0.19 |
| LIPA | -0.41 | 1.64 | -0.33 | 0.44 | 1.20 | 1.01 | 1.43 | 0.52 | 0.41 | 0.66 |
| LIPC | 0.46 | 1.02 | -0.23 | 0.42 | 0.46 | 0.45 | 0.36 | 0.45 | 0.39 | 0.42 |
| LIPT1 | 0.16 | 0.43 | 0.04 | 0.91 | -0.02 | 0.68 | 0.49 | 0.84 | 0.30 | 0.43 |
| LMAN2 | -0.10 | 0.31 | 0.00 | 0.40 | 0.31 | 0.92 | 0.41 | 0.42 | 0.41 | 0.34 |
| LMO4 | 0.42 | 0.32 | -0.27 | 0.10 | 0.48 | 0.98 | 0.74 | 0.15 | 0.45 | 0.37 |
| LOXL1 | -0.55 | 1.61 | 0.00 | 0.88 | 0.62 | 1.60 | 1.34 | 0.78 | 0.72 | 0.78 |
| LRBA | -0.03 | -0.25 | -0.07 | 0.54 | 0.47 | 0.59 | 0.21 | 0.55 | 0.33 | 0.26 |
| LRPAP1 | -0.01 | 0.49 | 0.19 | 0.36 | 0.17 | 0.67 | 0.49 | 0.32 | 0.65 | 0.37 |
| LRRC15 | 0.46 | 3.07 | -0.08 | 1.24 | 1.81 | 0.99 | 2.02 | 1.45 | 2.38 | 1.48 |
| LRRC17 | 0.52 | 1.57 | 0.21 | 1.32 | 0.61 | 0.92 | 2.15 | 1.35 | 0.78 | 1.05 |
| LSM1 | 0.31 | 1.11 | -0.10 | 0.34 | 0.15 | 0.10 | 0.22 | 0.34 | 0.29 | 0.31 |
| LSM4 | -0.26 | 0.55 | 0.05 | 0.65 | 0.25 | 0.60 | 0.41 | 0.60 | -0.17 | 0.30 |
| LTA4H | -0.55 | -0.55 | -0.16 | 1.08 | 1.15 | 0.80 | 1.58 | 1.09 | 0.40 | 0.54 |
| LTBP1 | 0.71 | 0.99 | -0.14 | 0.34 | 0.50 | 0.20 | 0.57 | 0.35 | 0.61 | 0.46 |
| LTC4S | -0.32 | -0.22 | 0.15 | 0.77 | 0.72 | 1.06 | 1.02 | 0.80 | -0.13 | 0.43 |
| LY86 | -0.89 | 0.68 | 0.01 | 0.60 | 1.06 | 1.73 | 1.05 | 0.77 | 0.59 | 0.62 |
| LYL1 | -0.57 | -0.43 | -0.09 | 0.30 | 0.25 | 0.95 | 0.27 | 0.28 | 0.29 | 0.14 |
| MAEA | 0.13 | 0.38 | -0.05 | 0.34 | 0.27 | 0.60 | 0.63 | 0.36 | 0.48 | 0.35 |
| MAGED1 | 0.95 | 0.66 | -0.33 | 0.54 | 0.78 | 1.05 | 1.01 | 0.58 | 0.48 | 0.64 |
| MAGED2 | 0.38 | 0.34 | -0.04 | 0.53 | 0.52 | 0.31 | 0.57 | 0.53 | 0.32 | 0.38 |
| MAN2B1 | -0.05 | 0.54 | -0.11 | 0.40 | 0.41 | 1.85 | 0.77 | 0.38 | 0.99 | 0.57 |
| MAP2K4 | 0.59 | 0.38 | 0.39 | 0.24 | 0.05 | 0.55 | 0.15 | 0.25 | 0.03 | 0.29 |
| MAPKAPK3 | -0.36 | 0.39 | 0.05 | 0.35 | 0.58 | 1.38 | 0.48 | 0.34 | 0.26 | 0.39 |
| MAPRE2 | 0.40 | -0.26 | 0.19 | 0.41 | 0.32 | 0.13 | 0.43 | 0.45 | 0.28 | 0.26 |
| MARCKS | -0.32 | 1.50 | -0.26 | 0.02 | 1.08 | 0.85 | 1.58 | 0.17 | 0.90 | 0.61 |
| MBTPS1 | 0.26 | 0.10 | -0.17 | 0.30 | 0.20 | 0.48 | 0.31 | 0.31 | 0.39 | 0.24 |
| MCM6 | -0.12 | -0.64 | 0.34 | 0.36 | 0.26 | 0.41 | 0.11 | 0.40 | 0.52 | 0.18 |
| MDH1 | 0.27 | 0.53 | -0.07 | 0.46 | 0.04 | 0.04 | 0.33 | 0.44 | -0.30 | 0.20 |
| MED20 | 0.54 | 0.94 | -0.04 | 0.40 | 0.20 | 0.71 | 0.31 | 0.38 | 0.17 | 0.40 |
| MEIS1 | 0.37 | -0.46 | 0.15 | 0.60 | 0.10 | 1.05 | 0.16 | 0.59 | 0.61 | 0.35 |
| MFAP4 | -0.24 | 0.13 | 0.45 | 0.85 | 0.59 | -0.05 | 0.70 | 0.76 | 0.73 | 0.44 |
| MFSD5 | 0.31 | 0.44 | 0.00 | 0.51 | 0.09 | 1.16 | 0.08 | 0.47 | 0.75 | 0.42 |
| MGST3 | -0.11 | 0.82 | 0.23 | 0.49 | 0.25 | -0.27 | 0.53 | 0.50 | -0.27 | 0.24 |
| MICAL2 | 0.67 | 1.16 | 0.55 | -0.05 | 0.32 | 0.38 | 0.67 | 0.08 | 0.80 | 0.51 |
| MICB | -0.63 | 0.95 | -0.20 | 0.45 | 0.86 | 1.17 | -0.04 | 0.50 | 1.34 | 0.49 |
| MINPP1 | 0.77 | 0.80 | -0.04 | 0.34 | 0.05 | 1.26 | 0.31 | 0.28 | 0.92 | 0.52 |
| MLEC | 0.32 | 0.37 | 0.06 | 0.21 | 0.52 | 1.24 | 0.83 | 0.27 | 0.06 | 0.43 |
| MN1 | 0.31 | -0.83 | 0.22 | 1.26 | 1.22 | 0.55 | 0.98 | 1.31 | 0.15 | 0.57 |
| MNDA | -0.55 | 1.31 | 0.02 | 0.40 | 1.40 | 1.89 | 0.90 | 0.55 | 0.83 | 0.75 |
| MRC2 | 0.74 | 0.83 | -0.03 | 0.42 | 0.77 | 0.98 | 1.20 | 0.45 | 1.20 | 0.73 |
| MRPS11 | 0.15 | 0.79 | 0.08 | 0.31 | 0.02 | 0.46 | 0.27 | 0.32 | -0.02 | 0.26 |
| MRS2 | 0.03 | 0.37 | -0.03 | 0.40 | 0.04 | 0.73 | 0.18 | 0.42 | -0.02 | 0.24 |
| MS4A2 | -0.19 | 0.52 | 0.05 | 0.60 | 0.47 | 1.63 | 0.62 | 0.56 | 0.25 | 0.50 |
| MSH2 | -0.08 | 0.15 | -0.16 | 0.49 | 0.27 | 1.07 | 0.36 | 0.48 | 0.09 | 0.30 |
| MSX2 | 0.20 | 1.35 | 0.09 | 0.51 | 0.34 | 1.02 | 0.08 | 0.54 | 0.42 | 0.51 |
| MTUS2 | 0.16 | 0.30 | 0.19 | 0.94 | 1.25 | 0.80 | 0.89 | 0.98 | 0.22 | 0.64 |
| MXRA5 | 1.52 | 1.74 | -0.44 | 0.75 | 1.63 | 0.92 | 3.54 | 0.92 | 0.64 | 1.25 |
| MYL6B | -0.13 | 0.22 | 0.10 | 0.78 | 0.55 | 0.85 | 0.72 | 0.74 | -0.38 | 0.38 |
| MYO1B | 0.39 | 0.87 | 0.14 | 0.07 | 0.58 | 0.21 | 0.58 | 0.15 | 0.32 | 0.37 |
| NAGA | -0.12 | 0.48 | 0.15 | 0.44 | 0.39 | 1.16 | 0.60 | 0.45 | 0.28 | 0.42 |
| NAP1L3 | 0.40 | 0.45 | 0.21 | 1.47 | 0.65 | 1.02 | 1.26 | 1.54 | 1.07 | 0.90 |
| NAT1 | 0.83 | 1.32 | -0.16 | 0.70 | 0.17 | 1.37 | 0.29 | 0.68 | 1.07 | 0.70 |
| NAT2 | 1.26 | 1.81 | -0.04 | 0.42 | 0.05 | 0.35 | 0.10 | 0.39 | -0.06 | 0.48 |
| NDN | 0.23 | 0.68 | -0.49 | 0.62 | 0.16 | 0.39 | 0.12 | 0.58 | 0.37 | 0.30 |
| NDUFAF1 | 0.07 | 0.41 | 0.17 | 0.46 | 0.05 | 0.90 | 0.50 | 0.40 | 0.11 | 0.34 |
| NDUFAF3 | -0.05 | 0.83 | 0.18 | 0.47 | 0.20 | 0.31 | 0.44 | 0.46 | 0.29 | 0.35 |
| NDUFS3 | 0.02 | 0.24 | -0.04 | 0.57 | 0.23 | 0.37 | 0.45 | 0.54 | -0.17 | 0.25 |
| NEFH | 1.34 | 1.32 | 0.49 | 0.13 | 0.16 | 0.59 | 0.08 | 0.11 | 0.02 | 0.47 |
| NELL1 | 0.79 | 2.07 | -0.04 | 1.58 | 0.74 | 0.95 | 0.98 | 1.64 | 0.56 | 1.03 |
| NID2 | 0.05 | 1.04 | -0.12 | 0.85 | 1.33 | 2.07 | 2.18 | 0.97 | 1.18 | 1.06 |
| NIT1 | -0.29 | -0.39 | 0.34 | 0.42 | 0.03 | 0.60 | 0.21 | 0.42 | 0.23 | 0.17 |
| NKX3-2 | 0.99 | 0.94 | 0.24 | 0.16 | 0.33 | 1.05 | 0.36 | 0.15 | 0.69 | 0.55 |
| NME3 | -0.01 | 0.20 | 0.11 | 0.53 | 0.29 | 0.78 | 0.45 | 0.49 | 0.67 | 0.39 |
| NME4 | 0.26 | 0.40 | -0.23 | 0.68 | 0.17 | 0.78 | 0.56 | 0.69 | 0.17 | 0.38 |
| NME5 | 0.57 | 0.80 | -0.01 | 0.64 | 0.01 | 1.11 | 0.09 | 0.66 | 0.34 | 0.47 |
| NNT | 0.05 | 0.62 | 0.01 | 0.61 | 0.06 | 0.60 | 0.19 | 0.54 | -0.68 | 0.22 |
| NPC2 | -0.77 | 0.28 | 0.23 | 0.35 | 0.22 | 0.65 | 0.46 | 0.34 | 0.67 | 0.27 |
| NPR3 | 0.44 | 1.78 | 0.11 | 0.90 | 0.05 | 0.84 | 0.69 | 0.71 | 0.60 | 0.68 |
| NPRL2 | 0.14 | -0.41 | 0.03 | 0.43 | 0.23 | 0.74 | 0.49 | 0.40 | -0.13 | 0.21 |
| NPTX2 | -0.29 | 1.81 | 0.23 | 1.35 | 0.28 | 1.86 | 0.44 | 1.29 | 1.94 | 0.99 |
| NQO2 | -0.01 | 0.19 | 0.12 | 0.64 | -0.36 | 0.29 | 0.85 | 0.55 | 0.07 | 0.26 |
| NSL1 | 0.28 | 0.40 | 0.25 | 0.48 | 0.12 | 0.38 | 0.55 | 0.44 | 0.08 | 0.33 |
| NUCB2 | 0.70 | 0.20 | -0.10 | 0.34 | 0.86 | 0.45 | 0.89 | 0.38 | 0.52 | 0.47 |
| NUDT1 | -0.44 | 0.77 | 0.17 | 0.65 | 0.23 | 0.70 | 0.32 | 0.61 | 0.39 | 0.38 |
| NUDT3 | 0.36 | 0.69 | 0.17 | 0.05 | 0.39 | 0.47 | 0.56 | 0.08 | -0.14 | 0.29 |
| NXT2 | 0.44 | 0.87 | 0.62 | 0.41 | 0.05 | 0.77 | 0.04 | 0.39 | 0.69 | 0.48 |
| OAS1 | -0.28 | 0.96 | 0.35 | 0.08 | 0.58 | 1.12 | 0.78 | 0.17 | 0.06 | 0.42 |
| OLR1 | 0.20 | 0.48 | -0.28 | 1.25 | 1.74 | 2.77 | 1.75 | 1.40 | 0.19 | 1.06 |
| OSBPL3 | 0.56 | 1.22 | -0.14 | 0.19 | 0.26 | 1.59 | 0.63 | 0.26 | 1.01 | 0.62 |
| OXCT1 | 0.17 | 0.58 | 0.12 | 0.56 | 0.04 | 0.08 | 0.56 | 0.55 | -0.01 | 0.30 |
| P2RX4 | -0.14 | 0.07 | 0.02 | 0.64 | 0.61 | 0.92 | 0.60 | 0.61 | 0.24 | 0.40 |
| P4HA1 | 0.69 | -0.46 | -0.21 | 0.43 | 0.13 | 0.85 | 0.13 | 0.45 | 0.65 | 0.30 |
| P4HA2 | 0.95 | -0.03 | 0.05 | 0.76 | 0.46 | 1.01 | 0.70 | 0.75 | 1.15 | 0.65 |
| P4HB | 0.40 | 0.04 | -0.10 | 0.29 | 0.19 | 0.61 | 0.56 | 0.31 | 0.63 | 0.33 |
| PAPSS1 | 0.68 | 0.40 | 0.00 | 0.41 | 0.32 | 0.39 | 0.67 | 0.37 | 0.45 | 0.41 |
| PARP1 | 0.19 | 0.51 | 0.01 | 0.33 | 0.31 | 0.72 | 0.24 | 0.33 | -0.13 | 0.28 |
| PARP3 | 0.08 | 0.36 | -0.21 | 0.32 | 0.33 | 0.54 | 0.37 | 0.34 | -0.06 | 0.23 |
| PBX3 | -0.03 | 0.18 | -0.16 | 0.54 | 0.34 | 0.89 | 0.31 | 0.49 | 0.39 | 0.33 |
| PCCB | 0.00 | 0.62 | 0.22 | 0.58 | 0.27 | 0.78 | 0.32 | 0.57 | 0.16 | 0.39 |
| PCNA | 0.21 | 1.00 | -0.93 | 0.43 | 0.32 | 0.47 | 0.40 | 0.50 | 0.41 | 0.31 |
| PCOLCE | 0.99 | 0.95 | -0.37 | 0.41 | 0.78 | 1.71 | 1.35 | 0.43 | 1.62 | 0.87 |
| PDCD2 | -0.26 | 0.51 | 0.20 | 0.35 | 0.04 | 0.98 | -0.04 | 0.37 | 0.56 | 0.30 |
| PDCD6 | 0.12 | 0.76 | 0.05 | 0.51 | 0.18 | 0.60 | 0.41 | 0.48 | 0.34 | 0.38 |
| PDCL | 0.35 | 0.27 | 0.16 | 0.36 | 0.19 | 0.83 | 0.19 | 0.36 | 0.30 | 0.33 |
| PDE1A | -0.33 | -0.40 | 0.60 | 0.87 | 0.48 | 1.29 | 0.73 | 0.87 | 0.87 | 0.55 |
| PDE6D | -0.03 | 0.74 | -0.02 | 0.40 | 0.16 | 0.28 | 0.29 | 0.41 | 0.75 | 0.33 |
| PDHB | 0.36 | 0.45 | -0.01 | 0.51 | 0.02 | 0.35 | 0.26 | 0.45 | -0.18 | 0.25 |
| PDIA4 | 0.28 | 0.14 | 0.01 | 0.35 | -0.01 | 1.42 | 0.62 | 0.38 | 0.89 | 0.45 |
| PDIA5 | 0.75 | 0.81 | 0.03 | 0.76 | 0.33 | 0.88 | 0.69 | 0.76 | 0.75 | 0.64 |
| PDIA6 | 0.54 | 0.04 | -0.36 | 0.35 | 0.30 | 0.85 | 0.57 | 0.41 | 0.53 | 0.36 |
| PEBP1 | -0.23 | -0.09 | 0.20 | 0.45 | -0.21 | 0.29 | 0.27 | 0.42 | 0.42 | 0.17 |
| PEX11B | 0.46 | 0.50 | -0.14 | 0.57 | 0.58 | 0.91 | 0.53 | 0.55 | 0.30 | 0.47 |
| PEX12 | 0.45 | 0.21 | 0.07 | 0.58 | -0.17 | 0.47 | 0.09 | 0.58 | 0.08 | 0.26 |
| PEX2 | 0.18 | 0.34 | 0.22 | 1.07 | 0.27 | 0.36 | 0.71 | 0.99 | 0.10 | 0.47 |
| PGAM1 | 0.51 | -0.18 | 0.35 | 0.28 | 0.08 | 0.47 | 0.16 | 0.30 | 0.85 | 0.31 |
| PHTF1 | 0.49 | 0.46 | 0.06 | 0.23 | 0.03 | 0.38 | 0.12 | 0.29 | 0.29 | 0.26 |
| PIGB | 0.46 | 0.05 | 0.18 | 0.42 | 0.20 | 0.53 | 0.20 | 0.41 | 0.67 | 0.35 |
| PIGK | 0.52 | 0.70 | 0.08 | 0.68 | 0.06 | 0.68 | 0.46 | 0.70 | 0.81 | 0.52 |
| PIK3R4 | 0.36 | 0.17 | -0.09 | 0.32 | 0.06 | 0.33 | 0.10 | 0.33 | 0.37 | 0.22 |
| PLA2G15 | -0.20 | 0.56 | 0.03 | 0.55 | 0.61 | 1.65 | 0.85 | 0.54 | 0.32 | 0.54 |
| PLA2G4A | 0.84 | 0.30 | -0.11 | 0.58 | 0.25 | 0.94 | 0.28 | 0.52 | 0.62 | 0.47 |
| PLCL2 | -0.63 | -0.28 | -0.17 | 0.42 | 0.13 | 0.67 | 0.54 | 0.40 | -0.08 | 0.11 |
| PLD1 | 0.36 | 1.01 | 0.11 | -0.06 | 0.28 | 1.57 | 0.33 | -0.01 | 1.13 | 0.52 |
| PLEK | -0.80 | 1.10 | -0.13 | 0.33 | 0.94 | 1.08 | 0.50 | 0.39 | 0.21 | 0.40 |
| PLXNC1 | -0.45 | 0.84 | -0.14 | 0.55 | 1.61 | 1.60 | 2.20 | 0.72 | 0.93 | 0.87 |
| PMVK | -0.03 | 0.03 | 0.19 | 0.49 | 0.26 | 1.04 | 0.45 | 0.45 | 0.02 | 0.32 |
| POLR2L | -0.25 | 0.94 | 0.12 | 0.51 | 0.09 | 0.71 | 0.62 | 0.53 | 0.22 | 0.39 |
| POP4 | -0.11 | 0.76 | -0.02 | 0.47 | 0.11 | 0.33 | 0.22 | 0.47 | -0.05 | 0.24 |
| PPIC | 0.79 | 1.60 | 0.07 | 0.52 | 0.73 | 0.77 | 1.23 | 0.52 | 0.96 | 0.80 |
| PPP1CA | 0.06 | 0.48 | 0.01 | 0.37 | 0.26 | 0.72 | 0.45 | 0.38 | 0.25 | 0.33 |
| PPT1 | 0.37 | 0.48 | -0.02 | 0.23 | 0.83 | 0.61 | 0.81 | 0.25 | 0.59 | 0.46 |
| PRDX4 | 0.59 | 0.64 | -0.08 | 0.57 | 0.72 | 0.60 | 0.98 | 0.62 | 1.31 | 0.66 |
| PRKACB | 0.62 | 0.26 | -0.10 | 0.54 | 0.15 | 0.77 | 0.87 | 0.54 | 0.46 | 0.46 |
| PRMT2 | -0.05 | 0.49 | -0.04 | 0.41 | 0.30 | 0.15 | 0.46 | 0.39 | 0.33 | 0.27 |
| PROS1 | 0.32 | 0.92 | -0.02 | 0.23 | 0.47 | 0.56 | 0.64 | 0.20 | 0.78 | 0.46 |
| PRSS23 | -0.43 | 2.23 | 0.05 | 0.52 | 0.55 | 0.78 | 1.51 | 0.58 | 1.26 | 0.78 |
| PSEN1 | 0.04 | 0.34 | 0.12 | 0.48 | 0.27 | 0.78 | 0.54 | 0.48 | 0.88 | 0.44 |
| PSEN2 | 0.04 | 0.38 | 0.43 | 0.35 | 0.27 | 1.01 | 0.31 | 0.29 | -0.04 | 0.34 |
| PSMB10 | -0.77 | 0.13 | 0.08 | 0.70 | 0.68 | 1.38 | 0.86 | 0.72 | 0.27 | 0.45 |
| PSMB6 | 0.00 | 0.73 | 0.31 | 0.31 | 0.10 | 0.53 | 0.17 | 0.29 | 0.26 | 0.30 |
| PTAFR | -0.73 | 1.07 | -0.22 | 0.02 | 0.39 | 0.85 | 0.55 | 0.11 | 0.36 | 0.27 |
| PTGER4 | 0.57 | 0.56 | -0.10 | 0.92 | 0.60 | 0.55 | 0.77 | 0.93 | 0.50 | 0.59 |
| PTGS1 | 0.37 | -0.70 | 0.06 | 0.86 | 0.39 | 1.44 | 0.99 | 0.90 | 0.68 | 0.55 |
| PTN | 0.84 | 1.15 | 0.22 | 1.52 | 1.27 | -0.01 | 1.19 | 1.54 | 0.92 | 0.96 |
| PTPRD | 0.41 | 0.71 | -0.11 | 0.54 | 0.36 | 1.19 | 1.09 | 0.51 | 1.30 | 0.67 |
| QDPR | -0.01 | 0.52 | 0.35 | 0.61 | 0.15 | 0.36 | 0.62 | 0.61 | 0.26 | 0.39 |
| RAB22A | 0.27 | 0.55 | -0.23 | -0.01 | 0.24 | 0.31 | 0.44 | -0.02 | 0.40 | 0.22 |
| RAB31 | 0.48 | 1.41 | -0.15 | 0.12 | 0.05 | 0.74 | 0.68 | 0.15 | 0.74 | 0.47 |
| RAB32 | -0.31 | -0.13 | -0.30 | 0.55 | 0.30 | 0.35 | 0.35 | 0.53 | 0.29 | 0.18 |
| RAB40B | -0.15 | 0.49 | -0.11 | 0.87 | 0.09 | 0.40 | 0.31 | 0.82 | -0.07 | 0.29 |
| RAC2 | -0.25 | 2.23 | -0.18 | 0.11 | 0.73 | 1.49 | 0.92 | 0.21 | 0.68 | 0.66 |
| RAD17 | 0.28 | 0.17 | 0.28 | 0.54 | 0.03 | 0.11 | 0.32 | 0.54 | 0.16 | 0.27 |
| RAD51C | 0.08 | 0.38 | 0.03 | 0.55 | 0.02 | 0.80 | 0.37 | 0.50 | 0.26 | 0.33 |
| RASA1 | 0.05 | -0.21 | -0.07 | 0.30 | 0.53 | 0.62 | 0.73 | 0.31 | 0.15 | 0.27 |
| RBBP4 | -0.02 | -0.12 | 0.12 | 0.31 | 0.23 | 1.43 | 0.30 | 0.30 | 0.43 | 0.33 |
| RBM4B | 0.19 | 0.05 | -0.07 | 0.51 | 0.27 | 0.68 | 0.36 | 0.52 | 0.36 | 0.32 |
| RCN2 | 0.85 | 0.93 | -0.46 | 0.70 | 0.27 | 0.00 | 0.20 | 0.66 | 0.50 | 0.41 |
| RER1 | -0.06 | 0.22 | -0.07 | 0.35 | 0.19 | 0.82 | 0.33 | 0.33 | 0.39 | 0.28 |
| RGS10 | -0.98 | -0.82 | 0.32 | 0.49 | 0.32 | 0.40 | 0.87 | 0.49 | 0.37 | 0.16 |
| RGS13 | 1.01 | 0.55 | -0.01 | 0.87 | 0.27 | 2.11 | 0.33 | 0.82 | 0.23 | 0.69 |
| RGS19 | 0.10 | 1.62 | 0.09 | 0.06 | 0.72 | 1.31 | 0.71 | 0.07 | 0.71 | 0.60 |
| RGS4 | -0.37 | 1.58 | 0.66 | 0.57 | 0.35 | 1.21 | 0.50 | 0.63 | 1.20 | 0.70 |
| RNASE1 | -0.32 | 0.95 | -0.04 | 0.50 | 0.25 | 1.01 | 0.54 | 0.48 | 0.14 | 0.39 |
| RNF14 | 0.34 | 0.33 | 0.21 | 0.65 | 0.11 | 0.32 | 0.57 | 0.63 | 0.49 | 0.41 |
| RNPEP | -0.16 | -0.05 | -0.22 | 0.47 | 0.31 | 0.43 | 0.55 | 0.46 | 0.52 | 0.26 |
| ROR1 | 0.25 | 1.38 | 0.03 | 0.49 | 0.03 | 0.80 | 0.10 | 0.49 | 0.05 | 0.40 |
| RPA1 | -0.25 | -0.16 | -0.09 | 0.66 | 0.39 | 0.37 | 0.48 | 0.60 | 0.02 | 0.22 |
| RPA3 | 0.09 | 0.15 | 0.16 | 0.79 | 0.20 | 0.38 | 0.32 | 0.78 | 0.32 | 0.35 |
| RPN2 | 0.61 | 0.80 | 0.23 | 0.30 | 0.26 | 1.01 | 0.47 | 0.32 | 0.56 | 0.51 |
| RTN1 | 0.03 | 1.69 | 0.16 | 1.20 | 0.62 | 1.41 | 1.02 | 1.20 | 0.19 | 0.83 |
| S100A8 | -0.33 | 1.57 | 1.68 | 0.28 | 1.04 | 2.50 | 1.10 | 0.37 | 1.08 | 1.03 |
| SCCPDH | 0.15 | 0.28 | -0.12 | 0.33 | 0.04 | 0.68 | 0.28 | 0.35 | 0.00 | 0.22 |
| SCP2 | 0.18 | 0.75 | -0.35 | 0.61 | 0.47 | 0.02 | 0.53 | 0.60 | 0.11 | 0.33 |
| SCRG1 | 1.26 | 1.19 | -0.55 | 2.33 | 2.52 | 1.62 | 3.06 | 2.43 | 2.14 | 1.78 |
| SEC13 | 0.41 | 0.21 | -0.30 | 0.35 | 0.25 | 0.36 | 0.28 | 0.33 | 0.24 | 0.24 |
| SEC23B | 0.09 | -0.40 | 0.08 | 0.46 | 0.15 | 0.73 | 0.42 | 0.46 | 0.93 | 0.33 |
| SELL | 0.52 | 0.73 | 0.20 | 0.11 | 0.90 | 1.04 | 0.75 | 0.23 | 1.41 | 0.66 |
| SEMA3A | 0.81 | 0.07 | 0.45 | 0.54 | 0.89 | 1.94 | 0.87 | 0.57 | 0.74 | 0.76 |
| SEMA3C | 0.07 | 1.86 | -0.15 | 0.35 | 1.20 | 0.60 | 1.38 | 0.31 | 0.39 | 0.67 |
| SEMA5A | -0.11 | 1.25 | -0.13 | 0.32 | 0.93 | 1.24 | 0.66 | 0.31 | 0.29 | 0.53 |
| SEPHS1 | 0.15 | 0.62 | -0.05 | 0.57 | 0.02 | 0.68 | 0.31 | 0.51 | 0.11 | 0.32 |
| SFXN3 | 0.33 | 0.38 | -0.17 | 0.14 | 0.42 | 0.47 | 0.45 | 0.16 | 0.99 | 0.35 |
| SGCA | -0.28 | -0.16 | 0.28 | 0.70 | 0.42 | 0.42 | 0.28 | 0.61 | -0.36 | 0.21 |
| SGCB | 0.62 | 0.83 | 0.01 | 0.85 | 0.17 | -0.33 | 0.68 | 0.85 | 0.34 | 0.44 |
| SGCG | 0.98 | 1.21 | 0.26 | 0.49 | 0.09 | -0.88 | 0.23 | 0.52 | -1.87 | 0.12 |
| SH3YL1 | 0.23 | 0.41 | -0.36 | 0.55 | 0.31 | 1.06 | 0.85 | 0.60 | 0.22 | 0.43 |
| SKP2 | 0.54 | 1.35 | -0.02 | 0.02 | -0.04 | 0.96 | 0.53 | 0.08 | 0.72 | 0.46 |
| SLC10A3 | 0.23 | 0.70 | 0.00 | 0.48 | 0.15 | 1.36 | 0.20 | 0.45 | 1.27 | 0.54 |
| SLC18A2 | -0.11 | 0.59 | -0.08 | 0.69 | 0.21 | 1.26 | 0.56 | 0.71 | 0.14 | 0.44 |
| SLC1A4 | 0.89 | 0.06 | 0.21 | 0.43 | 0.45 | -0.14 | 0.48 | 0.47 | 0.06 | 0.32 |
| SLC22A18 | -0.31 | 0.14 | 0.17 | 0.49 | 0.22 | 0.84 | 0.59 | 0.58 | 0.73 | 0.38 |
| SLC23A2 | 0.37 | 0.06 | 0.08 | -0.14 | 0.70 | 1.27 | 0.92 | -0.02 | 0.13 | 0.37 |
| SLC25A20 | 0.17 | 1.01 | 0.42 | 0.47 | 0.17 | 0.57 | 0.42 | 0.45 | -0.22 | 0.38 |
| SLC39A6 | 0.36 | 0.33 | 0.12 | 0.35 | 0.26 | 0.64 | 0.36 | 0.33 | 0.70 | 0.38 |
| SLC5A3 | 0.14 | -0.40 | -0.41 | 1.06 | 0.91 | 0.96 | 2.09 | 1.03 | 0.03 | 0.60 |
| SLC7A7 | -0.49 | 0.61 | 0.02 | 0.39 | 0.63 | 1.74 | 0.93 | 0.38 | 0.63 | 0.54 |
| SLC9A6 | 0.31 | 0.08 | 0.14 | 0.67 | 0.39 | 0.49 | 0.34 | 0.62 | 0.04 | 0.34 |
| SLCO2B1 | -0.66 | 1.19 | -0.16 | 0.07 | 0.62 | 2.20 | 0.58 | 0.06 | 0.89 | 0.53 |
| SMAP1 | 0.35 | 0.03 | 0.20 | 0.42 | -0.04 | 0.76 | -0.18 | 0.41 | 0.27 | 0.25 |
| SMC4 | -0.06 | 0.08 | -0.25 | 0.50 | 0.12 | 1.07 | 0.87 | 0.55 | 0.89 | 0.42 |
| SMPD1 | 0.31 | 0.21 | 0.08 | 0.39 | 0.20 | 0.89 | 0.20 | 0.41 | 0.49 | 0.35 |
| SNUPN | -0.02 | 0.19 | 0.15 | 0.60 | 0.06 | 0.58 | 0.57 | 0.57 | 0.23 | 0.33 |
| SOCS6 | 0.28 | 0.41 | 0.18 | 0.30 | 0.40 | 0.31 | 0.45 | 0.31 | 0.54 | 0.35 |
| SPA17 | 0.68 | 0.99 | -0.22 | 0.61 | 0.11 | 0.69 | 0.17 | 0.65 | 0.95 | 0.51 |
| SPARC | 1.14 | 1.58 | -0.16 | 0.17 | 0.46 | 0.36 | 1.07 | 0.18 | 0.47 | 0.59 |
| SPINT2 | 0.41 | -0.39 | -0.03 | 0.59 | 0.20 | 1.07 | 0.37 | 0.63 | 0.22 | 0.34 |
| SPOCK1 | 0.95 | 2.69 | 0.24 | 0.90 | 0.07 | 1.11 | -0.39 | 0.78 | 1.00 | 0.82 |
| SRR | 0.33 | 0.77 | 0.38 | 0.32 | 0.17 | 0.30 | 0.20 | 0.32 | -0.30 | 0.28 |
| SSR4 | 0.21 | 0.05 | -0.03 | 0.58 | 0.60 | 0.61 | 0.87 | 0.59 | 0.81 | 0.48 |
| STARD7 | 0.32 | 0.47 | -0.04 | 0.02 | 0.17 | 0.33 | 0.45 | -0.01 | -0.13 | 0.18 |
| STEAP1 | 0.33 | 1.20 | 0.15 | 0.86 | 0.07 | 0.99 | 0.54 | 0.91 | 1.65 | 0.74 |
| STMN1 | -0.88 | 0.86 | -0.10 | 0.29 | 0.36 | 0.57 | 0.24 | 0.34 | 0.48 | 0.24 |
| STMN2 | 0.39 | 0.26 | 0.46 | 1.29 | 0.51 | 1.83 | 0.38 | 1.25 | 0.91 | 0.81 |
| STS | 0.62 | 0.79 | -0.28 | 0.45 | 0.10 | 0.31 | 0.11 | 0.40 | 0.30 | 0.31 |
| SULF1 | 1.60 | 2.00 | 0.08 | 0.33 | 0.66 | 0.65 | 1.30 | 0.38 | 1.01 | 0.89 |
| SUMO3 | 0.01 | 0.70 | 0.15 | 0.39 | 0.07 | 0.36 | 0.02 | 0.36 | 0.35 | 0.27 |
| SUOX | 0.26 | 0.35 | -0.02 | 0.48 | 0.14 | 0.36 | 0.10 | 0.49 | 0.39 | 0.29 |
| SYNGR2 | -0.81 | -0.41 | 0.00 | 0.44 | 0.28 | 0.79 | 0.49 | 0.47 | -0.10 | 0.13 |
| SYNGR3 | 0.67 | 0.93 | 0.28 | 0.34 | 0.13 | 0.84 | 0.01 | 0.29 | 0.35 | 0.43 |
| TAC1 | 1.35 | -0.31 | 0.07 | 1.69 | 0.75 | 2.58 | 1.30 | 1.74 | 1.74 | 1.21 |
| TADA3 | -0.20 | 0.61 | 0.12 | 0.42 | 0.40 | 0.69 | 0.44 | 0.41 | 0.45 | 0.37 |
| TAOK3 | 0.19 | 0.38 | 0.02 | 0.35 | 0.16 | 0.48 | 0.38 | 0.32 | 0.12 | 0.27 |
| TARBP1 | 0.64 | 0.66 | -0.05 | -0.17 | 0.05 | 0.70 | 0.26 | -0.09 | -0.06 | 0.22 |
| TBCB | -0.01 | 0.69 | 0.12 | 0.61 | 0.18 | 0.66 | 0.44 | 0.58 | 0.31 | 0.40 |
| TCEA2 | -0.33 | 0.39 | -0.18 | 0.56 | 0.10 | 0.66 | 0.36 | 0.50 | 0.71 | 0.31 |
| TCTA | -0.16 | 0.60 | -0.22 | 0.78 | 0.51 | 0.55 | 0.41 | 0.84 | 0.29 | 0.40 |
| TECR | 0.03 | 0.20 | 0.05 | 0.56 | 0.20 | 0.41 | 0.71 | 0.54 | 0.02 | 0.30 |
| TEX261 | -0.12 | 0.19 | 0.26 | 0.29 | 0.27 | 0.39 | 0.22 | 0.29 | 0.79 | 0.29 |
| TFDP1 | 0.59 | 0.81 | 0.14 | 0.41 | 0.39 | 0.99 | 0.55 | 0.39 | 0.33 | 0.51 |
| TGDS | 0.44 | -0.30 | 0.05 | 0.33 | -0.03 | 0.50 | 0.04 | 0.28 | 0.45 | 0.20 |
| THBS4 | 1.29 | -0.10 | 0.21 | 1.05 | 0.72 | 0.57 | 1.18 | 0.98 | 0.61 | 0.72 |
| TIA1 | 0.46 | 0.80 | -0.27 | 0.25 | 0.09 | 0.87 | 0.43 | 0.22 | 0.19 | 0.34 |
| TIMP1 | -0.18 | 1.24 | 0.04 | 0.34 | 0.62 | 1.39 | 1.28 | 0.41 | 1.79 | 0.77 |
| TLR3 | 0.31 | 0.01 | 0.44 | 0.85 | 0.31 | 0.81 | 0.50 | 0.87 | 0.86 | 0.55 |
| TM9SF2 | 0.39 | 0.49 | -0.61 | 0.29 | 0.40 | 0.30 | 0.80 | 0.29 | 0.32 | 0.30 |
| TMCO1 | 0.31 | 0.37 | 0.06 | 0.29 | 0.10 | 0.31 | 0.10 | 0.31 | 0.48 | 0.26 |
| TMED3 | 0.25 | 0.85 | -0.07 | 0.61 | 0.53 | 1.04 | 0.61 | 0.56 | 1.38 | 0.64 |
| TMED9 | 0.27 | 0.38 | 0.09 | 0.26 | 0.26 | 0.68 | 0.46 | 0.27 | 0.80 | 0.38 |
| TMEM147 | -0.07 | 0.77 | 0.38 | 0.43 | -0.06 | 0.88 | 0.12 | 0.41 | 0.66 | 0.39 |
| TMEM187 | -0.03 | 0.67 | -0.02 | 0.72 | 0.20 | 0.50 | 0.30 | 0.66 | 0.39 | 0.38 |
| TMEM243 | -0.21 | -0.63 | 0.31 | 0.74 | -0.12 | 0.56 | -0.06 | 0.65 | 0.91 | 0.24 |
| TNC | 1.33 | 2.04 | 0.31 | 0.09 | 0.69 | 2.15 | 1.16 | 0.24 | 0.68 | 0.97 |
| TNFRSF11A | 0.02 | 0.69 | 0.04 | 0.51 | 0.34 | 1.63 | 0.35 | 0.47 | 0.39 | 0.49 |
| TNFRSF11B | 0.56 | 0.98 | 0.50 | 1.34 | -0.03 | -0.38 | 0.45 | 1.29 | 0.89 | 0.62 |
| TNFSF11 | 2.23 | 1.42 | -0.40 | 0.49 | 0.41 | 1.85 | 0.38 | 0.56 | 1.56 | 0.94 |
| TOM1L1 | -0.69 | 0.74 | 0.06 | 0.45 | 0.04 | 0.83 | -0.67 | 0.37 | 0.87 | 0.22 |
| TOX3 | 0.47 | 0.39 | 0.34 | 0.39 | 0.03 | 0.43 | -0.84 | 0.39 | -0.02 | 0.18 |
| TPD52L1 | -0.09 | 0.25 | 0.04 | 1.02 | 0.03 | 0.66 | 0.70 | 0.90 | -0.36 | 0.35 |
| TPGS2 | -0.19 | 0.41 | -0.36 | 0.46 | 0.38 | 0.49 | 0.30 | 0.45 | 0.69 | 0.29 |
| TPST2 | -0.28 | 0.99 | 0.10 | 0.41 | 0.30 | 1.10 | 0.51 | 0.43 | 0.52 | 0.45 |
| TRAF3 | 0.42 | 0.79 | -0.17 | 0.11 | 0.05 | 1.22 | 0.59 | 0.22 | 0.53 | 0.42 |
| TRIB2 | 0.43 | 0.82 | 0.09 | 0.32 | 0.09 | 1.08 | 0.72 | 0.45 | 0.44 | 0.49 |
| TRIL | 0.49 | -0.22 | -0.20 | 0.73 | 0.64 | 0.82 | 0.71 | 0.82 | 0.36 | 0.46 |
| TRIM14 | -0.02 | -0.85 | -0.13 | 0.85 | 1.50 | 2.10 | 0.75 | 0.89 | 0.62 | 0.63 |
| TRIM32 | 0.46 | 0.23 | 0.28 | 0.44 | 0.17 | 0.31 | 0.39 | 0.42 | 0.15 | 0.32 |
| TRIP6 | -0.16 | 0.62 | 0.03 | 0.48 | 0.25 | 1.34 | 0.53 | 0.43 | 1.32 | 0.54 |
| TSPAN3 | 0.52 | 0.78 | 0.13 | 0.32 | 0.07 | 0.17 | 0.37 | 0.30 | -0.38 | 0.25 |
| TSPAN4 | -0.44 | -0.24 | -0.12 | 0.43 | 0.24 | 0.55 | 0.80 | 0.43 | 0.57 | 0.25 |
| TSPO | -0.09 | 0.48 | 0.45 | 0.43 | 0.16 | 0.77 | 0.68 | 0.44 | 0.86 | 0.47 |
| TTC37 | 0.36 | 0.36 | -0.49 | 0.53 | 0.04 | -0.30 | 0.18 | 0.52 | 0.12 | 0.15 |
| TTLL1 | 0.20 | 0.90 | 0.05 | 0.49 | 0.31 | 0.61 | 0.46 | 0.50 | 0.24 | 0.42 |
| TUBA1B | 0.04 | 1.04 | -0.03 | 0.24 | 0.15 | 0.41 | 0.37 | 0.27 | 0.28 | 0.31 |
| TUSC2 | -0.06 | 0.89 | -0.02 | 0.36 | 0.28 | 0.73 | 0.07 | 0.32 | -0.21 | 0.26 |
| TXNDC9 | 0.53 | 0.85 | -0.20 | 0.44 | 0.10 | 0.49 | 0.24 | 0.40 | 0.39 | 0.36 |
| TXNL4A | 0.31 | 0.92 | 0.29 | 0.31 | 0.27 | 0.66 | 0.61 | 0.34 | 0.36 | 0.45 |
| TYMS | -0.59 | -0.29 | -0.52 | 0.62 | 0.67 | 1.60 | 0.66 | 0.71 | 1.05 | 0.43 |
| TYROBP | -0.52 | 2.17 | -0.20 | 0.35 | 0.65 | 1.15 | 1.59 | 0.41 | 1.11 | 0.75 |
| UBAC1 | -0.22 | 0.52 | 0.09 | 0.58 | 0.15 | 0.61 | 0.39 | 0.54 | -0.24 | 0.27 |
| UBE2E3 | 0.38 | 0.46 | -0.32 | 0.61 | 0.22 | 0.59 | 0.43 | 0.56 | -0.03 | 0.32 |
| UBL4A | 0.29 | 0.60 | -0.07 | 0.43 | 0.11 | 0.39 | 0.28 | 0.39 | 0.18 | 0.29 |
| UCHL3 | 0.61 | 0.53 | -0.14 | 0.39 | 0.11 | 0.85 | 0.36 | 0.40 | 0.29 | 0.38 |
| UCP2 | 0.71 | 1.55 | 0.40 | 0.53 | 0.75 | 1.73 | 1.59 | 0.59 | 0.69 | 0.95 |
| UROS | -0.23 | 0.39 | -0.07 | 0.53 | 0.14 | 0.46 | 0.44 | 0.55 | -0.08 | 0.24 |
| VAMP8 | -0.59 | -0.23 | -0.15 | 0.77 | 0.62 | 1.24 | 1.12 | 0.79 | 0.38 | 0.44 |
| VEGFC | -0.21 | 1.48 | -0.73 | 0.57 | 1.45 | 2.59 | 1.51 | 0.69 | 1.30 | 0.96 |
| VOPP1 | 0.35 | 0.81 | -0.37 | 0.52 | 0.34 | 0.33 | 0.75 | 0.54 | 0.19 | 0.38 |
| VPS41 | 0.01 | 0.04 | 0.14 | 0.36 | 0.16 | 0.63 | 0.52 | 0.37 | 0.47 | 0.30 |
| VPS45 | 0.19 | 0.48 | 0.06 | 0.38 | -0.12 | 0.84 | -0.01 | 0.39 | 0.03 | 0.25 |
| VTI1B | -0.18 | 0.37 | 0.22 | 0.29 | 0.25 | 0.54 | 0.34 | 0.28 | 0.34 | 0.27 |
| VWA5A | -0.18 | -0.01 | -0.10 | 0.69 | 0.42 | 0.97 | 0.63 | 0.72 | 0.76 | 0.43 |
| XRCC4 | -0.14 | 0.45 | 0.00 | 0.69 | 0.03 | 0.55 | -0.06 | 0.64 | 0.34 | 0.28 |
| XYLT1 | 0.77 | 0.10 | -0.15 | 0.28 | 1.37 | 0.77 | 1.17 | 0.38 | 0.43 | 0.57 |
| YIF1A | 0.32 | 0.75 | -0.05 | 0.34 | 0.27 | 0.71 | 0.49 | 0.31 | 0.84 | 0.44 |
| YIPF3 | 0.05 | 0.43 | 0.60 | 0.71 | 0.08 | 0.89 | 0.24 | 0.68 | 0.89 | 0.51 |
| YWHAH | 0.13 | 0.26 | -0.02 | 0.69 | 0.23 | 0.81 | 0.57 | 0.72 | 0.02 | 0.38 |
| ZBTB14 | 0.32 | 0.18 | -0.27 | 0.51 | 0.45 | 0.31 | 0.30 | 0.50 | 0.21 | 0.28 |
| ZKSCAN7 | 0.46 | 0.98 | 0.18 | 0.36 | 0.23 | 1.42 | 0.28 | 0.36 | 0.94 | 0.58 |
| ZMPSTE24 | 0.54 | 0.80 | 0.07 | 0.24 | 0.22 | 0.36 | 0.51 | 0.24 | 0.76 | 0.42 |
| ZNF184 | 0.64 | 0.46 | 0.06 | 0.32 | 0.08 | 0.63 | 0.22 | 0.29 | 0.78 | 0.39 |
| ZNF200 | 0.30 | 1.05 | 0.08 | 0.30 | 0.10 | 1.21 | 0.11 | 0.31 | 0.36 | 0.42 |
| ZNF211 | 0.36 | 0.45 | 0.36 | 0.07 | -0.06 | 0.41 | 0.06 | 0.07 | 0.33 | 0.23 |
| ZNF253 | 0.57 | 0.78 | 0.12 | 0.29 | 0.01 | 0.51 | 0.10 | 0.26 | 0.47 | 0.35 |
| ZNF365 | 0.98 | 0.37 | 0.15 | 0.59 | 0.39 | -0.27 | 0.28 | 0.58 | 0.77 | 0.43 |
| ZNF415 | 0.48 | 0.35 | -0.10 | 0.65 | 0.04 | 1.35 | 0.21 | 0.65 | 0.92 | 0.50 |
| ZNF423 | 0.54 | 0.92 | -0.02 | 0.84 | 0.80 | 1.73 | 1.22 | 0.90 | 0.77 | 0.85 |
| ZNF45 | 0.15 | 0.39 | -0.01 | 0.31 | 0.10 | 0.86 | 0.22 | 0.32 | 0.34 | 0.30 |
| ZSCAN26 | 0.30 | 0.10 | 0.04 | 0.39 | 0.04 | 0.87 | 0.29 | 0.40 | 0.37 | 0.31 |
| ZSCAN9 | 0.28 | 1.09 | 0.20 | 0.27 | 0.04 | 0.61 | 0.20 | 0.24 | 0.41 | 0.37 |
| ZWINT | -0.76 | 1.80 | -0.39 | 0.62 | 0.87 | 1.48 | 0.21 | 0.63 | 0.87 | 0.59 |
| AASS | -0.67 | -0.85 | -0.31 | -0.46 | -0.18 | -0.39 | -0.70 | -0.52 | 0.36 | -0.41 |
| AATF | -0.90 | -0.68 | 0.23 | -0.06 | -0.29 | 0.12 | -0.38 | -0.08 | 0.33 | -0.19 |
| ABLIM1 | -0.06 | -1.14 | -0.10 | -0.39 | -0.74 | -0.86 | -1.30 | -0.46 | -0.38 | -0.60 |
| ACADL | -2.04 | -1.80 | -0.31 | 0.05 | -0.22 | -2.12 | -0.34 | 0.02 | -0.68 | -0.83 |
| ACVR1B | -0.69 | -0.59 | 0.23 | -0.06 | -0.39 | 0.76 | -0.65 | -0.07 | 0.38 | -0.12 |
| ADA | -0.80 | -0.66 | -0.11 | 0.07 | -0.56 | 0.47 | -0.67 | 0.02 | 0.69 | -0.17 |
| ADCY2 | -0.91 | -1.11 | -0.02 | -0.08 | -0.03 | -1.34 | -1.37 | -0.16 | -0.91 | -0.66 |
| ADM | -2.16 | -3.47 | 0.01 | -0.75 | -2.14 | -1.16 | -2.76 | -0.64 | 0.00 | -1.45 |
| AFF1 | -0.33 | -0.72 | -0.20 | -0.49 | -0.42 | 0.10 | -0.81 | -0.54 | -0.27 | -0.41 |
| AHCTF1 | -0.04 | -0.45 | -0.01 | -0.29 | -0.11 | 0.05 | -0.43 | -0.31 | 0.01 | -0.18 |
| AKAP13 | 0.14 | -0.22 | 0.11 | -0.64 | -0.07 | -1.12 | -0.91 | -0.62 | -0.45 | -0.42 |
| ALDH1L1 | -1.67 | -2.10 | -0.08 | -0.24 | -0.50 | -0.93 | -0.06 | -0.24 | -0.73 | -0.73 |
| ALDH3A1 | -1.28 | 0.09 | -0.06 | -0.38 | 0.02 | -0.27 | 0.06 | -0.39 | -0.25 | -0.27 |
| AMPH | -0.34 | 0.57 | -0.51 | -0.04 | -0.44 | -0.64 | -0.69 | -0.22 | 0.10 | -0.25 |
| ANG | -0.73 | -0.46 | 0.13 | 0.66 | -0.44 | -0.65 | -0.74 | 0.55 | 0.40 | -0.14 |
| ANGPTL7 | -1.39 | -0.99 | 0.12 | 0.40 | -0.86 | -3.16 | -2.35 | 0.15 | 0.43 | -0.85 |
| AOX1 | -0.61 | -0.89 | -0.35 | 0.26 | -0.96 | 0.32 | -1.17 | 0.12 | 0.45 | -0.31 |
| APOD | -2.53 | -0.93 | -1.07 | -0.68 | -3.97 | -2.58 | -4.01 | -0.90 | -1.34 | -2.00 |
| ARHGAP26 | -0.39 | -0.82 | -0.03 | -0.55 | -0.08 | 0.23 | -0.57 | -0.56 | 0.26 | -0.28 |
| ARHGAP33 | -0.39 | -0.08 | -0.33 | -0.36 | -0.10 | -0.04 | 0.09 | -0.36 | -0.29 | -0.21 |
| ARID5A | -1.26 | -1.15 | -0.10 | -0.55 | -0.42 | 0.58 | -0.32 | -0.50 | -0.07 | -0.42 |
| ARID5B | -1.17 | -1.03 | -0.26 | -0.42 | -0.76 | 0.15 | -1.40 | -0.46 | 0.36 | -0.55 |
| ARL4C | -1.19 | 2.09 | -0.17 | -0.89 | -0.55 | 1.09 | -1.11 | -0.81 | 1.28 | -0.03 |
| ARNTL | -0.92 | -1.72 | -0.25 | -0.34 | -0.37 | -0.63 | -0.65 | -0.38 | 0.23 | -0.56 |
| ATF3 | -1.22 | -2.83 | -0.28 | -2.02 | -1.63 | -0.98 | -3.30 | -1.89 | 1.23 | -1.43 |
| ATF4 | -0.35 | 0.19 | 0.53 | -0.32 | -0.92 | -0.13 | -0.72 | -0.36 | -0.11 | -0.24 |
| BAZ1A | -0.57 | -0.34 | 0.04 | -0.59 | 0.16 | 0.43 | -0.35 | -0.60 | 0.44 | -0.15 |
| BAZ2A | -0.35 | -0.65 | 0.19 | -0.30 | -0.09 | 0.53 | -0.35 | -0.33 | -0.37 | -0.19 |
| BCL3 | -0.91 | -1.06 | -0.35 | -0.74 | -0.24 | 1.55 | -0.56 | -0.63 | 0.65 | -0.26 |
| BCL6 | -1.26 | -1.15 | -0.42 | -0.59 | -1.47 | -0.72 | -2.16 | -0.66 | -0.54 | -1.00 |
| BHLHE40 | -0.42 | -2.21 | 0.21 | -0.94 | -0.36 | 0.01 | -1.01 | -0.81 | 0.63 | -0.54 |
| BMP2 | -0.41 | -0.69 | 0.04 | -0.93 | -0.51 | 0.26 | -0.88 | -0.83 | 0.55 | -0.38 |
| BOP1 | -0.39 | 0.29 | -0.27 | -0.59 | -0.49 | 0.87 | -0.27 | -0.60 | -0.18 | -0.18 |
| BRD2 | -0.14 | -0.73 | -0.22 | -0.74 | -0.36 | -0.27 | -0.69 | -0.78 | 0.07 | -0.43 |
| BRD4 | -0.54 | -0.60 | -0.14 | -0.98 | -0.16 | 1.12 | -1.32 | -1.02 | -0.07 | -0.41 |
| BTG1 | -0.65 | -1.02 | -0.25 | -0.38 | -0.60 | 0.04 | -1.27 | -0.36 | 0.41 | -0.45 |
| BTG2 | -1.73 | -2.01 | 0.32 | -0.45 | -0.36 | -0.55 | -1.71 | -0.41 | 0.85 | -0.67 |
| BTG3 | -0.34 | -0.93 | -0.11 | -0.06 | -0.66 | 0.01 | -1.42 | -0.09 | 0.63 | -0.33 |
| CBLB | -0.63 | -0.57 | 0.13 | -0.90 | -0.92 | 0.11 | -1.82 | -0.88 | 0.43 | -0.56 |
| CD83 | -0.09 | -0.82 | -0.10 | -0.79 | -0.46 | -0.57 | -0.62 | -0.65 | 0.65 | -0.38 |
| CDC42EP4 | -0.94 | -0.91 | -0.02 | -0.25 | -1.04 | 0.09 | -0.88 | -0.26 | 0.58 | -0.40 |
| CDK2 | -0.51 | -0.83 | 0.12 | -0.20 | -0.30 | 0.31 | -0.78 | -0.19 | 0.35 | -0.23 |
| CDKN1A | -1.79 | -2.55 | -0.34 | -1.10 | -1.30 | -0.20 | -2.32 | -1.07 | 0.93 | -1.08 |
| CDKN1B | -0.47 | -1.24 | 0.10 | 0.61 | -0.07 | -0.50 | -0.66 | 0.55 | 0.02 | -0.18 |
| CDV3 | -0.52 | -0.39 | 0.08 | -0.43 | -0.02 | -0.09 | -0.54 | -0.44 | -0.18 | -0.28 |
| CEBPB | -1.26 | -1.27 | 0.40 | -0.47 | -0.62 | 1.11 | -1.25 | -0.50 | 0.42 | -0.38 |
| CEBPD | -1.69 | -0.85 | 0.00 | -0.56 | -1.18 | 0.24 | -2.36 | -0.69 | 0.68 | -0.71 |
| CEBPZ | -0.27 | -0.68 | 0.21 | -0.32 | -0.32 | 0.18 | -0.76 | -0.39 | -0.05 | -0.27 |
| CEP164 | -0.38 | -0.40 | -0.06 | -0.27 | -0.13 | -0.54 | -0.13 | -0.26 | 0.57 | -0.18 |
| CFLAR | -0.61 | -0.56 | 0.19 | -0.49 | -0.59 | 0.17 | -0.59 | -0.46 | -0.04 | -0.33 |
| CHD1 | -0.16 | -0.72 | 0.03 | -0.79 | -0.29 | -0.15 | -1.19 | -0.77 | 0.51 | -0.39 |
| CHKA | -0.36 | -0.63 | -0.58 | -0.41 | -0.26 | 0.87 | -0.16 | -0.45 | -0.23 | -0.25 |
| CITED2 | -1.08 | -1.57 | 0.18 | 0.19 | -0.24 | -0.57 | -1.27 | 0.19 | 0.60 | -0.39 |
| CLASRP | -0.99 | -0.13 | -0.40 | -0.36 | -0.51 | 0.82 | -0.28 | -0.39 | 0.06 | -0.24 |
| CLDN5 | -1.65 | -1.71 | 0.02 | -0.17 | -0.95 | 0.11 | -0.98 | -0.28 | -0.12 | -0.64 |
| CLK1 | -0.01 | -0.65 | -0.34 | -0.66 | -1.00 | -0.19 | -0.91 | -0.75 | -0.41 | -0.55 |
| CLK3 | -0.37 | -1.15 | -0.27 | 0.08 | -0.40 | 0.08 | -0.13 | 0.06 | 0.02 | -0.23 |
| CRIM1 | 0.28 | -0.34 | -0.89 | -0.38 | 0.00 | -0.97 | -0.69 | -0.35 | -0.12 | -0.38 |
| CSDC2 | -1.46 | -0.87 | 0.16 | -0.03 | -0.28 | -0.40 | -0.07 | -0.04 | -0.18 | -0.35 |
| CSRP2 | -0.61 | 0.32 | 0.06 | 0.08 | -0.79 | -1.19 | -1.06 | 0.13 | -0.08 | -0.35 |
| CTH | -0.62 | -2.05 | -0.06 | -0.08 | -0.51 | 0.01 | -0.65 | -0.08 | 0.44 | -0.40 |
| CYP4B1 | -1.31 | -0.29 | 0.14 | -0.16 | -0.50 | -2.68 | -3.80 | -0.57 | -0.12 | -1.03 |
| DDIT3 | -1.48 | -2.61 | -0.36 | 0.07 | -1.20 | -0.36 | -0.67 | 0.04 | 0.12 | -0.72 |
| DDIT4 | -2.90 | -2.81 | -0.35 | -0.18 | -3.04 | 0.31 | -3.18 | -0.42 | -0.56 | -1.46 |
| DENND3 | -0.49 | -1.03 | -0.04 | -0.38 | -0.23 | 0.80 | -0.46 | -0.35 | 0.13 | -0.23 |
| DMPK | -0.30 | 0.38 | -0.46 | -0.35 | -0.05 | 0.48 | -0.04 | -0.37 | 0.04 | -0.07 |
| DMWD | -0.39 | -0.08 | -0.31 | -0.33 | -0.17 | -0.20 | -0.08 | -0.30 | -0.22 | -0.23 |
| DUSP1 | -0.64 | -1.11 | 0.70 | -0.98 | -0.33 | -0.84 | -1.38 | -1.01 | 1.25 | -0.48 |
| DUSP4 | -0.85 | 0.51 | 0.09 | -0.67 | -1.67 | -0.26 | -0.32 | -0.73 | -1.08 | -0.55 |
| DUSP5 | -0.74 | -0.55 | 0.11 | -1.30 | -0.95 | 0.37 | -1.84 | -1.17 | 0.30 | -0.64 |
| DUSP8 | -0.09 | -1.02 | -0.24 | -0.47 | -0.19 | -0.79 | -0.75 | -0.50 | -0.12 | -0.46 |
| DYRK3 | -0.21 | -1.21 | 0.14 | -0.16 | -1.00 | -0.38 | -0.35 | -0.17 | 0.43 | -0.32 |
| E2F3 | -0.69 | -0.58 | -0.06 | -0.60 | -0.07 | 0.81 | -0.25 | -0.63 | 0.37 | -0.19 |
| ECE1 | -0.47 | -1.01 | -0.08 | -0.40 | -0.18 | 0.23 | -0.48 | -0.39 | -0.02 | -0.31 |
| EDNRB | -0.12 | -0.16 | -0.14 | -0.64 | -0.39 | -0.12 | -1.13 | -0.71 | -0.30 | -0.41 |
| EFHD1 | -0.51 | -0.93 | 0.08 | 0.16 | -0.50 | -1.15 | -0.82 | 0.12 | -0.20 | -0.42 |
| EFNA1 | -1.41 | -1.50 | 0.42 | -0.19 | -0.59 | -0.02 | -0.54 | -0.18 | 0.19 | -0.42 |
| EGR1 | 0.39 | -1.47 | 0.61 | -1.02 | -0.65 | -0.23 | -1.08 | -0.89 | 1.68 | -0.30 |
| EIF1 | -0.77 | -0.59 | 0.35 | -0.42 | -0.66 | 0.11 | -0.56 | -0.40 | 0.31 | -0.29 |
| EIF3A | -0.30 | -0.11 | 0.00 | -0.68 | -0.14 | -0.35 | -0.52 | -0.71 | 0.19 | -0.29 |
| EIF5B | 0.14 | 0.10 | 0.22 | -0.61 | -0.17 | -0.49 | -0.70 | -0.63 | -0.16 | -0.26 |
| ENOSF1 | -0.07 | -0.57 | -0.50 | -0.67 | -0.32 | 0.47 | -0.48 | -0.59 | 0.54 | -0.24 |
| ERF | 0.09 | -0.79 | -0.47 | -0.32 | -0.20 | 1.85 | -0.27 | -0.33 | -0.13 | -0.06 |
| ETS2 | -1.20 | -2.07 | -0.38 | -0.55 | -1.05 | 0.10 | -1.15 | -0.46 | 0.32 | -0.72 |
| FADS3 | -0.46 | -0.62 | -0.33 | -0.42 | -0.55 | 0.41 | -0.62 | -0.47 | 0.11 | -0.33 |
| FASN | -0.28 | -0.84 | 0.23 | -0.78 | -2.84 | -0.22 | -1.27 | -0.88 | -0.25 | -0.79 |
| FBLN1 | -1.03 | -1.09 | 0.45 | 0.83 | -0.40 | -0.78 | -0.92 | 0.77 | 0.50 | -0.18 |
| FBLN2 | -0.90 | -0.33 | -0.53 | -0.08 | -0.95 | -0.31 | -0.70 | -0.12 | -0.05 | -0.44 |
| FKBP5 | -0.41 | -0.38 | 0.29 | -1.26 | -1.46 | -0.11 | -1.74 | -1.61 | 0.32 | -0.70 |
| FKBP8 | -0.55 | -0.66 | -0.32 | 0.05 | -0.11 | -0.60 | 0.06 | 0.01 | -0.07 | -0.24 |
| FLT1 | 0.67 | -0.83 | 0.14 | -0.53 | -0.19 | 0.12 | -0.67 | -0.47 | -0.34 | -0.23 |
| FNBP4 | -0.16 | -0.82 | -0.99 | -0.50 | -0.29 | 0.11 | -0.63 | -0.49 | -0.19 | -0.44 |
| FOSB | 1.03 | -2.38 | 0.00 | -2.64 | -1.25 | -1.24 | -3.59 | -2.31 | 2.35 | -1.11 |
| FOSL1 | -1.71 | -1.30 | -0.34 | -0.89 | -0.09 | -0.10 | -0.80 | -0.80 | 0.16 | -0.65 |
| FOSL2 | -1.48 | -2.08 | -0.36 | -0.88 | -1.01 | 0.32 | -1.77 | -0.97 | 0.33 | -0.88 |
| FOXC2 | -0.60 | -1.60 | 0.12 | -0.36 | -0.18 | 0.36 | -0.36 | -0.39 | 0.07 | -0.33 |
| FOXO3 | -0.89 | -1.08 | 0.16 | -0.36 | -1.16 | -0.12 | -1.47 | -0.49 | -0.02 | -0.60 |
| FSTL3 | -0.66 | 0.17 | -0.10 | -0.44 | -0.92 | 0.20 | -0.45 | -0.50 | 0.00 | -0.30 |
| G0S2 | -2.53 | -2.18 | 0.43 | 0.14 | -1.23 | -1.60 | 0.25 | 0.02 | -1.18 | -0.88 |
| GABARAPL1 | -0.59 | -1.08 | -0.23 | -0.56 | -0.55 | -0.16 | -1.26 | -0.55 | 0.06 | -0.55 |
| GABBR1 | -0.32 | -0.47 | -0.29 | -0.81 | -0.38 | 0.42 | -0.32 | -0.74 | 0.16 | -0.31 |
| GADD45A | -2.27 | -1.60 | 0.15 | -0.05 | -2.02 | 0.30 | -2.58 | -0.15 | 0.26 | -0.88 |
| GADD45B | -2.58 | -2.47 | 0.27 | -1.39 | -1.35 | -0.34 | -2.75 | -1.50 | 0.80 | -1.26 |
| GLRX | -2.59 | -1.18 | -0.04 | -0.22 | -0.94 | 0.43 | -1.06 | -0.23 | 0.05 | -0.64 |
| GLUL | -2.31 | -1.30 | -0.31 | -0.35 | -0.51 | -0.04 | -0.93 | -0.36 | 0.25 | -0.65 |
| GPM6B | -1.44 | -1.05 | -0.21 | -0.05 | -0.65 | -0.40 | -0.63 | -0.11 | 0.44 | -0.46 |
| GPX3 | -2.20 | -1.42 | 0.02 | -0.06 | -0.54 | -0.40 | -0.91 | -0.11 | 0.02 | -0.62 |
| GTSE1 | -0.88 | 0.57 | -0.42 | -0.60 | 0.19 | -0.34 | -0.13 | -0.57 | -0.37 | -0.28 |
| H1FX | -1.16 | -1.58 | -0.05 | 0.75 | -1.05 | 1.06 | -1.62 | 0.75 | 0.72 | -0.24 |
| HES1 | -0.63 | -2.02 | 0.20 | -0.59 | -0.59 | -0.67 | -0.76 | -0.52 | -0.23 | -0.65 |
| HIST1H1C | -1.88 | -1.22 | 0.39 | -0.07 | -0.95 | -0.51 | -0.82 | -0.02 | -0.79 | -0.65 |
| HMGB2 | -1.23 | -1.68 | -0.49 | 0.05 | -0.93 | -0.46 | -1.72 | 0.06 | 0.47 | -0.66 |
| HMOX1 | -2.42 | -0.64 | 0.02 | -1.35 | 0.77 | 1.54 | 0.18 | -1.13 | -0.02 | -0.34 |
| HNRNPA1 | -0.48 | 0.20 | 0.27 | -0.29 | -0.10 | -0.08 | -0.37 | -0.27 | 0.13 | -0.11 |
| HNRNPU | -0.15 | -0.53 | 0.12 | -0.35 | -0.05 | 0.23 | -0.39 | -0.35 | 0.07 | -0.16 |
| HSF1 | -0.83 | -0.45 | -0.12 | -0.15 | -0.28 | 0.33 | -0.35 | -0.16 | -0.08 | -0.23 |
| HSP90AB1 | -0.58 | -0.60 | 0.28 | -0.03 | -0.39 | -0.07 | -0.49 | -0.05 | -0.41 | -0.26 |
| ICAM1 | -1.24 | -1.50 | 0.16 | -0.31 | -0.85 | 0.78 | -1.03 | -0.23 | 0.28 | -0.44 |
| ID2 | 0.10 | -0.93 | 0.32 | -0.36 | -0.07 | 0.20 | -1.36 | -0.32 | 1.18 | -0.14 |
| IER2 | -0.31 | -2.48 | 0.29 | -1.04 | -0.15 | -0.14 | -1.39 | -0.87 | 1.81 | -0.48 |
| IER3 | -1.37 | -1.20 | -0.04 | -1.04 | -0.25 | -0.08 | -1.83 | -0.71 | 1.30 | -0.58 |
| IFRD1 | -0.47 | -1.52 | -0.22 | -0.52 | -0.99 | -0.50 | -1.46 | -0.50 | -0.02 | -0.69 |
| IGF1R | -0.67 | -0.91 | -0.46 | -0.68 | 0.02 | -0.51 | -0.93 | -0.68 | 0.14 | -0.52 |
| IGFBP6 | -1.34 | -0.28 | -0.16 | 0.29 | -0.88 | -1.20 | -0.86 | 0.14 | 0.17 | -0.46 |
| IL1B | -0.51 | 0.80 | -0.17 | -0.57 | -1.21 | -0.61 | -0.46 | -0.46 | -0.11 | -0.37 |
| IL1R1 | -0.25 | 0.07 | 0.04 | -0.84 | -0.91 | 0.28 | -1.33 | -0.85 | 0.65 | -0.35 |
| IL6 | -2.28 | -1.40 | 0.00 | -2.20 | -1.41 | 0.32 | -2.08 | -1.96 | 0.76 | -1.14 |
| IL6R | -1.22 | -1.65 | 0.37 | -0.72 | -0.03 | 0.02 | -0.79 | -0.70 | 0.32 | -0.49 |
| INHBB | -1.47 | 1.04 | -0.32 | -0.99 | -1.92 | -0.60 | -1.27 | -0.97 | 0.00 | -0.72 |
| INSIG1 | -0.30 | -1.02 | -0.80 | -0.51 | -1.27 | -0.39 | -0.87 | -0.50 | 0.30 | -0.60 |
| INSR | -0.85 | -0.96 | -0.02 | -0.74 | -0.50 | -0.12 | -0.99 | -0.72 | -0.07 | -0.55 |
| IRS2 | -1.26 | -1.82 | -0.04 | -0.48 | -0.13 | -1.02 | -1.65 | -0.51 | -0.28 | -0.80 |
| ITGA5 | -0.53 | -0.94 | -0.07 | -0.63 | -0.71 | -0.51 | -0.97 | -0.67 | 0.81 | -0.47 |
| ITPKC | -1.84 | -1.91 | 0.04 | -0.14 | -0.43 | 0.47 | -0.84 | -0.23 | -0.02 | -0.54 |
| JMJD6 | -0.37 | -1.38 | -0.04 | -0.33 | -0.16 | 0.60 | -1.10 | -0.36 | 0.90 | -0.25 |
| JUN | -0.59 | -2.64 | 0.19 | -1.52 | -0.48 | -0.79 | -1.73 | -1.51 | 0.37 | -0.97 |
| JUNB | -0.20 | -1.77 | 0.29 | -1.27 | -0.33 | -0.07 | -1.62 | -1.17 | 1.00 | -0.57 |
| JUND | -0.67 | -0.68 | 0.17 | -0.55 | -0.39 | 0.18 | -1.15 | -0.52 | 0.39 | -0.36 |
| KDM6B | -0.53 | -1.15 | -0.79 | -0.80 | -0.07 | -0.53 | -0.33 | -0.71 | -0.03 | -0.55 |
| KLF10 | -0.95 | -2.19 | -0.12 | -0.68 | -0.27 | -0.69 | -0.82 | -0.54 | 0.15 | -0.68 |
| KLF4 | -0.54 | -1.53 | 0.48 | -0.96 | -0.97 | -0.33 | -1.72 | -0.96 | 0.92 | -0.62 |
| KLF5 | -0.88 | -1.58 | 0.18 | -0.17 | -0.26 | -1.05 | -0.60 | -0.23 | -0.35 | -0.55 |
| KLF6 | -0.28 | 0.29 | -0.10 | -0.96 | -0.91 | -0.48 | -1.39 | -0.98 | 0.58 | -0.47 |
| KLF7 | -0.45 | 0.35 | 0.18 | -0.57 | -0.33 | -0.37 | -0.53 | -0.59 | 0.36 | -0.22 |
| KLF9 | -1.55 | -1.69 | 0.08 | -1.26 | -1.47 | -1.07 | -3.29 | -1.46 | -0.14 | -1.32 |
| LAMA2 | 0.13 | -0.80 | -0.32 | 0.05 | -1.44 | -1.39 | -1.68 | -0.13 | -0.11 | -0.63 |
| LAMA3 | -0.78 | 0.25 | 0.37 | -0.40 | -0.61 | -0.26 | -0.85 | -0.52 | 0.06 | -0.30 |
| LDLR | 0.08 | -0.50 | -0.09 | -0.89 | -1.96 | 0.46 | -2.00 | -0.84 | 0.22 | -0.61 |
| LIF | -1.40 | -1.33 | -0.24 | -0.85 | -0.08 | 0.30 | -1.14 | -0.73 | 0.16 | -0.59 |
| LONRF1 | 0.04 | -0.58 | -0.01 | -0.65 | -0.58 | 0.26 | -0.68 | -0.60 | -0.18 | -0.33 |
| LPIN1 | -0.80 | -0.86 | -0.09 | 0.01 | -0.96 | -0.27 | -0.21 | -0.01 | -0.52 | -0.41 |
| LTB4R | -1.24 | -0.84 | 0.30 | -0.48 | -0.10 | 0.82 | -0.10 | -0.49 | -0.22 | -0.26 |
| LUC7L3 | 0.02 | -0.37 | -0.39 | -0.44 | -0.14 | -0.45 | 0.37 | -0.45 | -0.30 | -0.24 |
| MAFF | -1.59 | -2.92 | -0.17 | -1.57 | -2.59 | -1.62 | -2.84 | -1.48 | 0.44 | -1.59 |
| MAOA | -1.90 | -0.49 | 0.55 | 0.24 | -1.93 | -1.43 | -1.78 | -0.04 | -0.73 | -0.83 |
| MAP2K7 | -0.53 | -0.36 | -0.59 | -0.76 | 0.09 | 0.33 | 0.05 | -0.77 | -0.17 | -0.30 |
| MAP3K8 | -0.68 | -0.50 | -0.19 | -0.79 | -0.38 | -0.31 | -1.35 | -0.69 | 0.75 | -0.46 |
| MAPK8IP3 | -0.46 | -0.50 | -0.61 | -0.42 | -0.08 | 1.24 | -0.24 | -0.39 | -0.44 | -0.21 |
| MAT2A | -0.17 | -0.70 | 0.20 | -0.94 | 0.13 | 0.60 | -1.02 | -0.92 | 0.09 | -0.30 |
| MCF2L | -0.39 | 0.58 | 0.04 | -0.55 | -0.59 | 0.23 | -0.39 | -0.51 | 0.15 | -0.16 |
| MCL1 | -0.42 | -0.91 | -0.07 | -0.92 | -0.67 | 0.01 | -1.06 | -0.88 | 0.28 | -0.52 |
| MED13L | -0.42 | -0.58 | -0.13 | -0.50 | -0.44 | -0.56 | -0.71 | -0.52 | 0.39 | -0.38 |
| MKNK2 | -1.54 | -1.83 | 0.13 | -0.56 | 0.03 | -0.13 | -0.99 | -0.61 | -0.21 | -0.63 |
| MT1X | -1.96 | -1.07 | 0.23 | 0.07 | -2.17 | -0.03 | -1.38 | -0.02 | 0.46 | -0.65 |
| MTA1 | -0.39 | 0.03 | 0.06 | -0.62 | -0.29 | 1.44 | -0.38 | -0.59 | 0.47 | -0.03 |
| MTHFD2 | -1.28 | -1.10 | 0.02 | -0.62 | -1.68 | 0.20 | -2.35 | -0.77 | 0.08 | -0.83 |
| MXI1 | -1.09 | -1.87 | 0.09 | 0.29 | -0.85 | -0.47 | -1.14 | 0.17 | 0.16 | -0.52 |
| MYC | -1.36 | -1.19 | 0.09 | -1.32 | -0.73 | 0.11 | -2.45 | -1.38 | 0.83 | -0.82 |
| MYCBP2 | -0.19 | -0.63 | -0.04 | -0.37 | -0.38 | -0.35 | -0.68 | -0.40 | -0.13 | -0.35 |
| MYOC | -1.82 | -1.18 | -0.05 | 0.97 | -1.28 | -3.85 | -1.63 | 0.85 | -1.05 | -1.00 |
| MZF1 | -0.42 | -0.25 | -0.46 | -0.70 | -0.37 | 1.43 | -0.08 | -0.62 | 0.27 | -0.13 |
| NAMPT | -1.02 | -1.13 | 0.04 | -1.39 | -1.46 | 0.53 | -3.24 | -1.27 | 0.64 | -0.92 |
| NASP | -0.59 | -0.53 | 0.18 | -0.20 | -0.33 | 0.88 | -0.66 | -0.25 | 0.14 | -0.15 |
| NDRG1 | -0.38 | -1.21 | -0.43 | -0.12 | -0.44 | -0.33 | -0.77 | -0.07 | 0.37 | -0.38 |
| NFIL3 | -1.09 | -2.23 | -0.03 | -1.55 | -1.58 | 0.28 | -4.11 | -1.67 | 1.27 | -1.19 |
| NFKB2 | -0.56 | -1.18 | -0.45 | -0.50 | -0.13 | 0.56 | -0.56 | -0.46 | -0.15 | -0.38 |
| NFKBIA | -1.25 | -0.50 | 0.26 | -0.63 | -0.99 | -0.70 | -2.22 | -0.73 | 0.37 | -0.71 |
| NID1 | -0.55 | 0.59 | -0.45 | -0.42 | -0.95 | -0.20 | -0.94 | -0.54 | 0.02 | -0.38 |
| NKTR | 0.26 | -0.15 | -0.40 | -0.87 | 0.00 | -0.59 | -0.46 | -0.91 | -0.20 | -0.37 |
| NOC2L | -0.48 | -0.07 | 0.02 | -0.31 | -0.31 | 0.54 | -0.29 | -0.34 | -0.07 | -0.15 |
| NOP14 | -0.56 | -0.29 | 0.12 | -0.36 | 0.02 | 0.69 | -0.62 | -0.41 | 0.27 | -0.13 |
| NOP2 | 0.04 | -0.06 | -0.49 | -0.57 | -0.39 | 0.30 | -0.48 | -0.60 | 0.19 | -0.23 |
| NPAS2 | -0.96 | -1.15 | 0.16 | -0.72 | -0.50 | 0.06 | -0.92 | -0.76 | 0.11 | -0.52 |
| NR4A1 | -0.50 | -0.99 | 0.35 | -1.64 | -0.18 | -1.08 | -1.02 | -1.48 | 0.36 | -0.69 |
| NR4A2 | 0.07 | -1.60 | 0.23 | -1.76 | -0.35 | -0.86 | -2.15 | -1.59 | 2.20 | -0.65 |
| NR4A3 | -0.63 | -1.65 | 0.47 | -1.24 | -0.28 | -0.74 | -0.91 | -1.13 | 0.07 | -0.67 |
| NUP98 | -0.33 | -0.65 | 0.15 | -0.26 | -0.26 | 0.55 | -0.45 | -0.30 | 0.14 | -0.16 |
| NXF1 | -0.35 | -0.51 | -0.20 | -0.58 | -0.56 | 0.61 | -0.65 | -0.57 | 0.22 | -0.29 |
| OPTN | -0.34 | -0.43 | 0.14 | 0.25 | -0.13 | -0.48 | -0.31 | 0.19 | -0.75 | -0.20 |
| PABPC1 | -0.90 | -0.28 | 0.03 | -0.28 | 0.07 | 0.54 | -0.25 | -0.28 | 0.27 | -0.12 |
| PARD3 | -0.38 | -0.83 | -0.07 | -0.34 | -0.06 | -0.47 | -0.61 | -0.35 | -0.27 | -0.38 |
| PDE1B | -1.15 | -0.28 | -0.03 | -0.32 | -0.10 | -0.43 | 0.20 | -0.32 | -0.43 | -0.32 |
| PER1 | -0.75 | -1.49 | 0.27 | -0.50 | -0.84 | -0.62 | -1.10 | -0.61 | -0.33 | -0.66 |
| PFKFB3 | -0.16 | -2.22 | -0.47 | -1.15 | -0.41 | -0.94 | -1.57 | -1.07 | -0.31 | -0.92 |
| PGF | 0.39 | -1.32 | 0.08 | -1.26 | 0.14 | -1.19 | -0.34 | -1.18 | -0.74 | -0.60 |
| PHC2 | -2.11 | -1.21 | -0.10 | -0.21 | -0.81 | 0.61 | -0.88 | -0.24 | 0.33 | -0.51 |
| PHF20 | -0.23 | -0.55 | -0.13 | -0.35 | -0.03 | -0.21 | -0.82 | -0.41 | -0.19 | -0.33 |
| PHF21A | -0.58 | -1.05 | -0.41 | -0.28 | -0.13 | 0.64 | -0.22 | -0.27 | 0.40 | -0.21 |
| PIGA | -0.91 | -2.00 | 0.05 | -0.25 | -0.78 | 0.41 | -1.47 | -0.24 | -0.23 | -0.60 |
| PIM1 | -1.75 | -1.48 | -0.35 | -0.73 | -1.05 | 0.27 | -1.68 | -0.63 | 0.00 | -0.82 |
| PLEKHM1 | -1.06 | -0.59 | -0.40 | -0.14 | -0.26 | 0.24 | -0.31 | -0.13 | 0.33 | -0.26 |
| PLIN2 | -1.29 | -0.90 | 0.03 | -0.38 | -1.56 | 0.45 | -2.31 | -0.51 | 0.02 | -0.72 |
| PLK3 | -0.76 | -1.44 | -0.23 | -0.56 | -0.31 | -0.07 | -0.66 | -0.51 | -0.19 | -0.53 |
| PNISR | -0.38 | -0.61 | -0.12 | -0.59 | -0.15 | 0.18 | -0.43 | -0.59 | -0.75 | -0.38 |
| PNPLA2 | -0.95 | -0.73 | -0.27 | -0.19 | -0.50 | -0.96 | -0.19 | -0.22 | -0.31 | -0.48 |
| PPARD | -0.56 | -0.61 | 0.06 | -0.42 | -0.04 | 0.61 | -0.17 | -0.36 | 0.59 | -0.10 |
| PPIG | 0.06 | -0.48 | -0.22 | -0.32 | -0.12 | 0.04 | -0.33 | -0.35 | -0.02 | -0.19 |
| PPP1R15A | -0.87 | -2.01 | -0.11 | -0.64 | -1.28 | 0.16 | -2.33 | -0.60 | 0.36 | -0.82 |
| PRKAR2B | -0.77 | -0.31 | -0.17 | 0.14 | -0.99 | -1.53 | -0.24 | -0.02 | -1.66 | -0.62 |
| PRLR | -1.94 | -1.39 | 0.17 | -0.29 | -0.06 | -0.28 | 0.05 | -0.26 | -0.19 | -0.46 |
| PRPF3 | -0.30 | -0.69 | -0.25 | -0.41 | -0.35 | 0.38 | -0.50 | -0.39 | 0.28 | -0.25 |
| PRRC2C | -0.10 | -0.44 | -0.63 | -0.55 | 0.24 | -0.04 | -0.43 | -0.57 | 0.26 | -0.25 |
| PTGS2 | 0.00 | -1.70 | -0.22 | -1.58 | 0.05 | -0.09 | -2.29 | -1.37 | 1.62 | -0.62 |
| PTPRS | -0.69 | -0.84 | 0.15 | -0.44 | -0.03 | 1.35 | 0.03 | -0.47 | 0.59 | -0.04 |
| PTPRU | -0.71 | -1.20 | 0.06 | -0.26 | -0.07 | -0.45 | -0.05 | -0.27 | -0.16 | -0.34 |
| PVR | -0.28 | -0.66 | 0.14 | -0.37 | -0.08 | -0.83 | 0.03 | -0.35 | -0.14 | -0.28 |
| RAD9A | -0.49 | -0.46 | -0.03 | -0.33 | -0.09 | 0.99 | -0.12 | -0.31 | 0.11 | -0.08 |
| RBBP6 | -0.16 | -0.50 | -0.21 | -0.34 | -0.06 | 0.05 | -0.45 | -0.33 | 0.11 | -0.21 |
| RBM39 | -0.09 | -0.50 | -0.17 | -0.28 | -0.45 | 0.50 | -0.56 | -0.28 | -0.18 | -0.22 |
| RBM6 | 0.06 | -0.18 | -0.44 | -0.69 | -0.20 | 0.73 | -0.39 | -0.64 | 0.20 | -0.17 |
| RCC1 | -1.20 | -0.18 | -0.01 | -0.63 | -0.37 | 0.23 | -0.39 | -0.58 | -0.03 | -0.35 |
| RDH16 | -0.56 | 0.62 | 0.00 | -0.36 | -0.06 | -0.65 | 0.11 | -0.36 | -0.46 | -0.19 |
| RGS16 | -0.37 | -1.34 | 0.29 | -1.45 | 0.00 | 0.25 | -1.28 | -1.21 | 0.34 | -0.53 |
| RHOB | -1.11 | -1.60 | 0.71 | -0.73 | -1.68 | -0.05 | -2.02 | -0.83 | 0.77 | -0.73 |
| RHOBTB3 | -0.83 | -1.12 | -1.00 | -0.20 | -0.42 | -0.06 | -1.37 | -0.33 | 0.41 | -0.55 |
| RHOQ | -0.17 | -0.39 | -0.16 | -0.30 | -0.15 | -0.41 | -0.67 | -0.34 | -0.37 | -0.33 |
| RLF | 0.20 | -1.08 | -0.05 | -0.57 | -0.25 | -0.38 | -0.95 | -0.61 | 0.17 | -0.39 |
| RND1 | -2.76 | -3.18 | 0.01 | -0.59 | -0.32 | 0.43 | -0.56 | -0.59 | 0.03 | -0.84 |
| RRP12 | -0.06 | -0.67 | -0.13 | -0.58 | -0.52 | -0.37 | -0.21 | -0.55 | -0.08 | -0.35 |
| RSL1D1 | -0.81 | -0.62 | -0.03 | 0.03 | -0.25 | -0.31 | -0.52 | 0.00 | 0.20 | -0.26 |
| RYBP | -0.27 | -1.19 | -0.16 | -0.51 | -0.36 | 0.29 | -0.89 | -0.49 | 0.21 | -0.38 |
| S1PR1 | -0.91 | -1.19 | 0.13 | -0.29 | -0.56 | -0.35 | -0.57 | -0.29 | 0.08 | -0.44 |
| SASH1 | -0.42 | -1.26 | -0.19 | -0.10 | -0.61 | -0.23 | -1.06 | -0.15 | 0.39 | -0.40 |
| SAT1 | -0.96 | -1.06 | 0.08 | -0.46 | -0.25 | 0.70 | -0.58 | -0.47 | 0.41 | -0.29 |
| SBNO2 | -0.91 | -1.05 | 0.31 | -0.47 | -0.39 | 0.78 | -0.50 | -0.42 | -0.23 | -0.32 |
| SCNN1A | -2.09 | -0.71 | -0.20 | -0.39 | -0.02 | 0.02 | -0.06 | -0.40 | -0.50 | -0.48 |
| SDC4 | -1.78 | -1.39 | 0.00 | -0.35 | -1.04 | -0.24 | -1.68 | -0.44 | 0.71 | -0.69 |
| SEC14L1 | -0.28 | -0.36 | 0.27 | -0.33 | -0.04 | 0.34 | -0.37 | -0.31 | -0.25 | -0.15 |
| SF1 | -0.42 | -0.30 | -0.32 | -0.48 | -0.33 | 0.71 | -0.52 | -0.48 | 0.41 | -0.19 |
| SFPQ | 0.29 | -0.07 | -0.65 | -0.76 | -1.27 | 0.36 | -0.73 | -0.75 | -0.21 | -0.42 |
| SFSWAP | -0.52 | -0.16 | -0.21 | -0.34 | -0.46 | -0.03 | -0.32 | -0.35 | -0.12 | -0.28 |
| SH2B1 | -0.27 | 0.42 | -0.44 | -0.28 | -0.05 | 0.81 | 0.10 | -0.27 | -0.16 | -0.02 |
| SH2B2 | -1.28 | -1.03 | 0.00 | -0.63 | -0.15 | -0.81 | -0.32 | -0.58 | -0.65 | -0.61 |
| SHMT1 | -0.80 | -0.78 | 0.22 | 0.04 | -0.44 | -0.87 | -0.39 | -0.04 | -0.26 | -0.37 |
| SIN3B | -0.11 | -0.38 | -0.43 | -0.37 | -0.18 | 0.39 | -0.11 | -0.35 | 0.10 | -0.16 |
| SLC16A7 | -0.17 | -0.01 | 0.07 | -0.45 | -0.43 | -1.08 | -2.04 | -0.52 | 0.27 | -0.49 |
| SLC19A2 | -0.82 | -0.99 | 0.04 | -0.87 | -0.30 | -0.05 | -3.09 | -1.04 | -0.49 | -0.85 |
| SLC2A3 | -1.37 | -1.78 | -0.12 | -1.13 | -1.88 | 0.28 | -1.77 | -1.02 | 1.54 | -0.81 |
| SLC39A14 | -1.13 | -1.00 | 0.19 | -0.39 | -1.11 | 0.58 | -1.80 | -0.43 | 1.23 | -0.43 |
| SLC3A2 | -1.28 | -1.44 | -0.07 | -0.31 | -0.31 | 0.55 | -0.52 | -0.36 | -0.04 | -0.42 |
| SLC5A6 | -0.35 | 0.62 | -0.04 | -0.52 | -0.46 | 0.01 | -0.42 | -0.48 | 0.05 | -0.18 |
| SLC7A5 | -0.47 | -1.74 | 0.01 | -1.14 | -1.02 | 0.13 | -1.25 | -1.03 | 0.11 | -0.71 |
| SNRNP70 | -0.37 | -0.13 | -0.77 | -0.47 | -0.41 | 1.15 | -0.36 | -0.46 | 0.34 | -0.16 |
| SOCS3 | -0.45 | -1.72 | 0.18 | -1.40 | -0.51 | 0.35 | -1.34 | -1.26 | 2.55 | -0.40 |
| SORBS1 | -0.77 | -0.26 | -0.20 | -1.15 | -0.33 | -1.40 | -0.38 | -1.03 | -0.87 | -0.71 |
| SOX13 | -1.71 | -1.73 | 0.04 | -0.05 | -0.69 | -0.18 | -0.30 | -0.09 | -0.17 | -0.54 |
| SPRY1 | -0.35 | -1.38 | 0.34 | -0.67 | -0.84 | -0.53 | -1.17 | -0.70 | 0.51 | -0.53 |
| SRRM2 | -0.27 | -0.41 | -0.39 | -0.84 | -0.29 | -0.77 | -0.52 | -0.82 | 0.30 | -0.45 |
| SRSF11 | 0.20 | -0.46 | -0.44 | -0.49 | -0.25 | -0.30 | -0.52 | -0.47 | -0.16 | -0.32 |
| SRSF4 | -0.30 | -0.62 | -0.27 | -0.30 | -0.47 | 0.19 | -0.79 | -0.34 | -0.05 | -0.33 |
| SRSF5 | -0.40 | -0.43 | -0.43 | -0.53 | -0.46 | -0.08 | -0.65 | -0.42 | -0.19 | -0.40 |
| SRSF7 | 0.10 | -0.77 | -0.30 | -0.44 | -0.28 | 0.13 | -1.22 | -0.39 | 0.10 | -0.34 |
| STAC | -1.25 | 0.17 | 0.36 | 0.28 | -0.42 | -0.70 | -0.43 | 0.18 | -0.39 | -0.24 |
| STC1 | -1.96 | -0.16 | -0.19 | -0.88 | -1.49 | -0.97 | -1.24 | -0.83 | 0.41 | -0.81 |
| STC2 | -0.86 | -1.85 | -0.30 | -0.38 | -0.14 | -0.65 | -0.24 | -0.39 | -0.23 | -0.56 |
| STK24 | -0.47 | -0.89 | -0.06 | -0.11 | -0.40 | -0.08 | -0.82 | -0.14 | 0.41 | -0.28 |
| STOM | -0.57 | -0.43 | 0.07 | -0.30 | -0.50 | 0.18 | -0.61 | -0.33 | 0.50 | -0.22 |
| SUN2 | -1.17 | -0.69 | -0.28 | -0.09 | -0.54 | 0.19 | -0.50 | -0.17 | 0.35 | -0.32 |
| SWAP70 | -0.42 | -0.73 | -0.03 | -0.05 | -0.14 | -0.30 | -0.45 | -0.03 | 0.36 | -0.20 |
| SYNE2 | -1.14 | -1.05 | 0.08 | -0.67 | -0.50 | 0.11 | -0.91 | -0.63 | -0.70 | -0.60 |
| SZRD1 | -0.53 | -0.05 | -0.49 | -0.36 | -0.06 | -0.26 | -0.03 | -0.36 | -0.16 | -0.25 |
| TAF1C | -0.11 | -0.01 | -0.75 | -0.40 | -0.21 | 1.20 | -0.37 | -0.37 | 0.49 | -0.06 |
| TBC1D8 | -0.64 | 0.17 | 0.14 | -0.26 | -0.68 | -0.39 | -0.79 | -0.30 | -0.58 | -0.37 |
| TBKBP1 | -0.71 | -0.93 | 0.13 | -0.50 | -0.24 | 0.55 | -0.18 | -0.51 | -0.29 | -0.30 |
| TCF7 | -1.12 | -1.11 | 0.03 | -0.78 | 0.04 | -0.38 | -0.05 | -0.68 | -0.23 | -0.47 |
| TFF3 | -0.96 | 0.08 | -0.11 | -0.34 | 0.09 | -0.95 | -0.03 | -0.31 | -0.29 | -0.31 |
| TGFBR3 | -0.47 | -0.75 | 0.27 | 0.02 | -0.85 | -0.44 | -1.37 | -0.05 | 0.22 | -0.38 |
| TGIF1 | -0.56 | -1.22 | -0.03 | -0.32 | -0.55 | 0.50 | -1.12 | -0.28 | 0.59 | -0.33 |
| THBD | -0.76 | -0.24 | 0.11 | -1.19 | -0.55 | 0.08 | -0.92 | -1.04 | 0.93 | -0.40 |
| TIMP4 | -1.30 | -0.80 | -0.38 | 0.40 | -2.19 | -1.27 | -1.61 | 0.15 | -0.55 | -0.84 |
| TIPARP | -0.84 | -1.34 | -0.22 | -0.90 | -0.69 | -0.51 | -2.01 | -0.99 | 0.28 | -0.80 |
| TJP2 | -0.54 | -0.27 | -0.17 | -0.36 | -0.94 | -0.72 | -1.02 | -0.40 | -0.18 | -0.51 |
| TKT | -0.66 | -0.06 | -0.12 | -0.48 | -0.79 | 0.19 | -0.25 | -0.47 | 0.51 | -0.24 |
| TLN2 | -0.51 | -1.14 | 0.25 | 0.04 | -0.07 | -0.74 | -0.44 | 0.00 | -0.39 | -0.33 |
| TNFAIP3 | -0.68 | -0.86 | 0.12 | -0.86 | -1.29 | 0.61 | -2.33 | -0.82 | 0.61 | -0.61 |
| TNFRSF10B | -0.46 | -0.86 | -0.10 | -0.61 | -0.13 | 0.39 | -0.90 | -0.45 | 1.40 | -0.19 |
| TOB1 | -1.61 | -2.38 | -0.01 | 0.16 | -0.09 | -0.32 | -1.19 | 0.17 | 0.28 | -0.55 |
| TOB2 | -0.27 | -0.78 | -0.10 | -0.39 | -0.54 | -0.11 | -0.58 | -0.45 | 0.10 | -0.34 |
| TRAF3IP2 | -1.00 | -0.67 | 0.19 | -0.05 | -0.57 | 0.09 | -1.02 | -0.07 | 0.35 | -0.31 |
| TRIB1 | -1.26 | -1.82 | -0.15 | -0.91 | -0.36 | 0.22 | -1.70 | -0.73 | 0.42 | -0.70 |
| TRIP10 | -0.91 | -0.38 | -0.18 | -0.13 | -0.61 | -0.38 | -0.64 | -0.19 | 0.04 | -0.37 |
| TSC22D2 | 0.14 | -0.83 | -0.06 | -0.85 | -0.10 | 0.30 | -0.81 | -0.79 | 0.91 | -0.23 |
| TSC22D3 | -1.16 | -1.28 | 0.77 | 0.12 | -1.24 | -0.44 | -0.98 | -0.01 | -0.11 | -0.48 |
| TSPYL2 | -0.72 | -1.40 | 0.48 | -0.26 | -0.74 | -0.06 | -0.67 | -0.34 | 0.05 | -0.41 |
| TULP3 | -0.26 | -1.01 | -0.23 | 0.02 | -0.16 | -0.32 | -0.50 | -0.01 | 0.55 | -0.21 |
| TXNIP | -2.29 | -2.11 | -0.16 | 0.19 | -0.74 | 0.02 | -0.57 | 0.09 | -0.31 | -0.65 |
| UGCG | -0.54 | -0.70 | -0.33 | -1.05 | -0.70 | 0.89 | -1.02 | -0.96 | 1.09 | -0.37 |
| ULK1 | -0.56 | -1.49 | -0.06 | -0.37 | -0.34 | 0.22 | -0.26 | -0.40 | 0.33 | -0.33 |
| UPP1 | -1.21 | -0.81 | 0.13 | -0.40 | -0.56 | 1.44 | -0.78 | -0.37 | 0.85 | -0.19 |
| VEGFA | -0.66 | -2.27 | -0.68 | -0.98 | -1.99 | -0.98 | -1.52 | -0.93 | 0.06 | -1.11 |
| WEE1 | -0.66 | -1.33 | -0.24 | 0.11 | -0.30 | -0.60 | -0.78 | 0.05 | 0.22 | -0.39 |
| WSB1 | 0.15 | -0.98 | -0.63 | -0.84 | -0.05 | 0.34 | -0.51 | -0.84 | 0.60 | -0.31 |
| XRCC2 | -0.67 | 0.67 | -0.03 | -0.48 | 0.01 | -1.08 | -0.06 | -0.41 | -0.77 | -0.31 |
| XRCC3 | -0.70 | -0.13 | 0.02 | -0.30 | 0.00 | -0.29 | -0.05 | -0.28 | -0.37 | -0.23 |
| ZBTB16 | -1.11 | -0.95 | 0.01 | -0.11 | -1.87 | -1.70 | -2.98 | -0.43 | -1.00 | -1.13 |
| ZFAND5 | -1.50 | -1.64 | 0.06 | -0.33 | -1.11 | 0.11 | -1.46 | -0.40 | -0.04 | -0.70 |
| ZFP36 | -1.37 | -1.57 | -0.07 | -1.29 | -0.58 | -0.46 | -2.05 | -1.22 | 0.94 | -0.85 |
| ZFP36L1 | -0.67 | -0.89 | 0.29 | -0.67 | -0.13 | -0.05 | -0.42 | -0.64 | 0.78 | -0.27 |
| ZHX2 | -0.40 | -1.05 | -0.36 | 0.10 | -0.37 | -0.18 | -0.50 | 0.09 | 0.16 | -0.28 |
| ZNF160 | 0.26 | -0.80 | -0.27 | -1.61 | 0.02 | -0.52 | -0.24 | -1.50 | -0.72 | -0.60 |
| ZNF44 | -0.16 | -0.40 | 0.18 | -0.63 | -0.09 | -0.30 | -0.30 | -0.61 | 0.42 | -0.21 |