

Supplementary Table 1. List of genes exclusively upregulated in the hippocampus of P3015 mice at 3 months, compared to 3-month-old WT mice.

| Gene symbol | WT_1_3M | WT_2_3M | WT_3_3M | WT_4_3M | WT_5_3M | Tau_1_3M | Tau_2_3M | Tau_3_3M | Tau_4_3M | Tau_5_3M | WT_1_9M | WT_2_9M | WT_3_9M | WT_4_9M | WT_5_9M | Tau_1_9M | Tau_2_9M | Tau_3_9M | Tau_4_9M | Tau_5_9M |
|-------------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|
| Slc35a1 | -1.91 | -0.47 | -0.05 | 0.80 | 1.17 | 1.71 | 1.26 | 2.12 | 1.39 | 1.52 | -0.55 | -1.23 | 0.25 | 0.59 | -0.01 | -1.45 | 0.26 | 0.55 | 0.11 | -0.21 |
| Zfp131 | -1.78 | -0.04 | -0.06 | 0.36 | 0.06 | 0.96 | 2.53 | 0.28 | 1.00 | 1.46 | 0.63 | -1.03 | 0.92 | -0.89 | -0.68 | 0.03 | 0.63 | -0.93 | -0.07 | 0.30 |
| LOC552904 | 0.31 | -1.10 | -1.67 | -0.34 | -0.29 | 1.34 | 1.10 | -0.30 | 1.93 | 0.50 | -0.76 | -1.59 | -0.72 | -0.15 | 0.13 | -0.40 | -0.31 | 1.16 | -0.01 | -0.50 |
| Al195381 | -0.92 | -1.04 | 0.17 | 0.19 | -0.14 | 1.86 | 0.72 | 0.18 | 1.84 | 1.16 | 0.01 | -0.24 | -0.36 | -0.10 | -1.15 | 0.06 | 0.64 | -0.17 | -0.62 | 0.17 |
| Stx1b | 0.10 | 0.16 | 0.52 | -0.14 | -2.52 | 1.49 | 1.08 | 0.45 | 1.63 | 0.92 | -0.28 | -1.79 | 0.25 | -0.45 | -1.78 | 0.14 | -0.10 | 0.20 | -1.12 | -0.92 |
| Derl2 | 0.73 | 0.97 | -1.02 | 0.53 | -0.32 | 2.27 | 2.35 | 1.04 | 1.10 | 1.51 | -1.53 | 0.04 | 0.19 | -0.13 | -0.46 | -0.14 | -0.03 | 0.44 | -0.11 | -0.01 |
| Dcp2 | 0.17 | -2.57 | -1.28 | 0.21 | 0.88 | 0.56 | 0.98 | 0.43 | 1.79 | 0.93 | 1.26 | -0.91 | -0.32 | -2.71 | -1.39 | 0.13 | 0.34 | -1.10 | 0.99 | 0.47 |
| Ap4s1 | 0.17 | -0.28 | -0.05 | -0.34 | -0.81 | 0.48 | 1.27 | 1.63 | 0.95 | 1.22 | -2.11 | 0.02 | -0.79 | -1.42 | 0.01 | -0.32 | -0.15 | -0.98 | 1.44 | 0.90 |
| Dalrd3 | -0.72 | -1.08 | 1.63 | 2.34 | 1.73 | -0.02 | 2.46 | -0.69 | -0.42 | 1.64 | -0.08 | 0.07 | -0.13 | 0.28 | -1.26 | -2.02 | -0.49 | -0.73 | -0.42 | -0.37 |
| Rnf24 | 0.61 | -0.54 | 0.44 | 0.14 | 0.40 | 2.12 | 0.25 | 1.44 | 0.85 | 2.83 | -1.04 | 0.24 | -0.15 | -0.53 | 0.26 | -1.51 | 0.40 | 0.42 | -0.30 | 0.22 |
| Tmem186 | -0.29 | -0.30 | -2.21 | -1.36 | -0.47 | -0.19 | 1.13 | -0.74 | 0.64 | 0.57 | -1.75 | -1.12 | 0.05 | -1.92 | -0.17 | 0.06 | -1.52 | 0.61 | -0.64 | 0.13 |
| Mex3a | -1.61 | -0.27 | -0.08 | 0.51 | 0.76 | 1.55 | 1.44 | 1.65 | 0.29 | 0.34 | -0.35 | -0.45 | -0.71 | -0.62 | -1.49 | -0.22 | 0.47 | 0.29 | -0.09 | -0.40 |
| Carkd | 0.55 | -1.02 | -0.12 | 0.87 | -0.40 | 1.37 | -0.55 | 1.69 | 0.92 | 2.40 | -0.71 | 0.50 | 0.07 | 1.25 | -0.22 | 0.66 | -1.12 | -0.76 | -0.27 | -0.01 |
| Tiam1 | -0.75 | -0.80 | -0.50 | -0.16 | 0.89 | 1.58 | 0.01 | 1.20 | 0.97 | 0.85 | -0.55 | -0.99 | 0.30 | -0.91 | 0.93 | -1.91 | 0.69 | -0.93 | -0.63 | -0.24 |
| Picalm | 0.60 | -0.38 | 0.19 | -0.53 | 0.12 | 2.19 | 0.39 | 0.39 | 1.70 | 1.17 | -0.64 | -0.42 | -2.11 | -1.02 | 0.63 | 0.55 | 1.05 | -0.55 | -1.36 | 0.75 |
| BC022960 | -0.36 | -0.11 | 0.14 | 0.90 | -0.51 | 0.80 | 0.48 | 0.53 | 1.74 | 2.27 | 1.51 | -0.59 | 1.37 | -0.62 | 0.64 | 0.48 | 0.26 | -0.13 | 1.84 | -0.08 |
| Purg | 1.33 | -0.49 | 0.12 | 0.22 | 0.36 | 1.68 | 0.21 | 0.93 | 1.93 | 2.51 | 0.61 | 0.00 | 0.43 | 0.64 | -1.16 | -0.64 | -1.01 | 0.64 | 0.10 | -0.24 |
| Brinp3 | 0.06 | 0.71 | -0.50 | 0.19 | 0.31 | 0.55 | 2.13 | 1.66 | 1.18 | 0.94 | 1.25 | -0.73 | -1.55 | -1.69 | -0.86 | 1.02 | -0.64 | -0.45 | -0.05 | 0.46 |
| Rpia | -0.46 | -0.64 | -0.01 | 0.25 | 0.49 | 0.49 | 1.61 | 1.11 | 1.31 | 0.79 | -0.31 | 0.04 | 0.50 | -0.32 | 0.24 | 0.87 | -0.33 | -0.07 | -0.63 | -0.01 |
| Mirps25 | -0.25 | -1.19 | -0.03 | -0.17 | 0.50 | 0.73 | 0.88 | 0.62 | 0.52 | 1.69 | 0.83 | -0.45 | 0.12 | -0.13 | 0.74 | -0.55 | 0.85 | 0.02 | 0.58 | -0.20 |
| Cirbp | -1.13 | 1.12 | 0.01 | 0.05 | -0.10 | 1.84 | 1.29 | 1.75 | 0.61 | 0.02 | -0.05 | 0.33 | 0.80 | -1.02 | 0.03 | 0.21 | 0.13 | 1.17 | -0.02 | 0.31 |
| Zranb2 | 0.44 | -1.02 | 0.41 | 0.46 | 0.32 | 1.56 | 0.09 | 0.16 | 2.60 | 1.70 | -0.48 | -0.48 | 0.75 | -0.61 | 0.51 | -0.31 | 0.20 | 0.19 | -0.45 | -0.14 |
| Acbd6 | -0.12 | 1.08 | -0.50 | -0.94 | 0.17 | 0.90 | 1.93 | 1.05 | 0.66 | 0.60 | -2.10 | -0.52 | 0.44 | -0.87 | 1.28 | -0.16 | 0.80 | -1.00 | -1.03 | -0.44 |
| Clpp | -0.92 | 0.45 | 1.01 | 0.70 | -0.09 | 1.03 | 1.08 | 2.23 | 1.26 | 0.98 | 0.48 | -0.58 | -0.54 | -0.47 | 0.24 | -0.64 | -1.65 | 0.10 | -0.57 | 0.55 |
| Smin19 | -0.20 | -0.55 | -0.07 | 0.78 | -0.08 | 1.02 | 1.83 | 0.67 | 1.54 | 0.24 | 1.26 | 0.07 | 0.43 | -1.21 | -0.95 | 0.40 | -0.98 | -0.79 | -0.40 | 0.75 |
| BC038331 | 0.03 | -0.60 | 0.53 | 0.38 | -0.06 | -0.45 | 1.46 | 1.51 | 1.70 | 1.47 | -0.71 | 2.14 | 0.27 | -0.53 | -0.62 | -1.03 | 1.48 | -0.91 | -1.14 | 0.93 |
| Ppt2 | 0.87 | 0.79 | -0.11 | 0.08 | -0.03 | 1.27 | 2.37 | 1.04 | 1.32 | 0.91 | 0.77 | -1.03 | -1.01 | -0.86 | -0.88 | 1.78 | -0.55 | 0.28 | -0.52 | -0.86 |
| Ppip5k2 | -1.56 | 0.04 | 0.45 | 0.86 | 0.45 | 0.75 | 1.24 | 2.21 | 1.05 | 0.30 | -0.86 | -0.31 | 1.70 | 0.05 | -0.29 | -0.18 | -0.23 | -0.16 | 1.19 | -0.07 |
| Sdc3 | -0.22 | 0.61 | -0.05 | 0.88 | 0.24 | 1.83 | 1.14 | 0.25 | 2.12 | 1.38 | 0.27 | 1.05 | -0.50 | -0.62 | -1.08 | 0.25 | 0.49 | -1.09 | -1.26 | 0.29 |
| Tmem88b | -1.15 | 0.63 | 0.65 | 0.82 | -0.74 | 1.04 | 0.81 | 0.94 | 1.01 | 1.65 | -0.59 | -0.47 | 0.03 | -0.41 | -1.49 | -0.23 | -0.68 | 0.61 | 0.68 | 1.04 |
| Sscca1 | -0.78 | 0.88 | -0.51 | 0.76 | 0.07 | 1.30 | 0.66 | 0.65 | 1.58 | 1.44 | 0.12 | -0.95 | 0.27 | -0.50 | 0.63 | 0.21 | 1.17 | 1.34 | 0.10 | 0.29 |
| Dnaic1 | 0.20 | -1.08 | 0.12 | 0.84 | -0.57 | 1.18 | 0.82 | 0.80 | 0.64 | 1.29 | -1.31 | -0.75 | 1.56 | 0.68 | -1.44 | -0.43 | 0.23 | 0.60 | 0.44 | 0.42 |
| Efs | 0.08 | 0.95 | -0.63 | 0.09 | -0.32 | 1.21 | 0.79 | 1.11 | 1.29 | 0.95 | -0.75 | 1.16 | -1.35 | -1.63 | -0.50 | -2.17 | 0.24 | -0.05 | -0.17 | -0.56 |
| AU044157 | 0.51 | 0.28 | -1.54 | -0.63 | 0.10 | 0.28 | 0.71 | 1.00 | 1.17 | 0.70 | -2.67 | -0.15 | -0.01 | 0.26 | 0.38 | -0.16 | 0.01 | -0.46 | 0.01 | -0.75 |
| Gfra2 | 0.11 | 0.20 | -0.45 | 0.70 | -1.09 | 1.21 | 0.70 | 0.90 | 0.59 | 1.20 | 0.78 | -1.81 | 0.64 | -0.59 | -1.86 | -1.30 | -2.63 | -1.01 | -0.89 | 0.28 |
| Slc35e2 | 0.08 | -1.53 | 0.32 | 0.30 | 0.52 | 1.12 | 0.92 | 1.02 | 1.17 | 0.50 | -0.49 | -2.37 | -0.09 | -0.66 | -0.39 | -0.99 | 0.22 | 0.64 | 0.04 | 0.26 |
| Ctca3a1 | -0.60 | 1.22 | 0.67 | -0.08 | -0.79 | 0.73 | 1.15 | 1.21 | 1.17 | 1.23 | 0.38 | -1.31 | -0.10 | -1.48 | -0.76 | 1.29 | -0.52 | 1.07 | -0.97 | 1.62 |
| Srgap1 | 0.62 | -0.60 | -0.13 | 0.44 | -1.57 | 0.10 | 1.20 | 0.88 | 0.75 | 0.88 | -2.74 | 0.38 | -0.77 | -0.51 | -0.57 | -0.30 | -1.06 | 1.01 | -0.48 | -1.50 |
| Ptrf | 0.22 | 0.27 | -0.14 | 0.73 | 0.07 | 0.96 | 1.30 | 1.17 | 1.47 | 1.21 | 0.28 | 1.49 | 0.03 | -0.81 | -1.66 | -0.70 | -1.03 | -0.30 | 0.51 | 0.02 |
| Plvap | 0.06 | -0.08 | 0.31 | -0.21 | 0.78 | 1.03 | 0.06 | 1.85 | 1.12 | 1.73 | 0.39 | 0.02 | 0.10 | -2.08 | -0.13 | 0.13 | -1.62 | -0.82 | 0.17 | -1.41 |
| Tm2d1 | 0.08 | 0.11 | -1.29 | -0.93 | 0.46 | -0.11 | 1.16 | 0.83 | -0.15 | 1.58 | 0.21 | -1.06 | -0.57 | 0.36 | -0.47 | -0.52 | -0.94 | -2.05 | 0.09 | -1.83 |
| Cep164 | 0.69 | -0.25 | 0.44 | 1.06 | 0.39 | 1.47 | 1.19 | 0.94 | 2.02 | 1.58 | -1.26 | -0.05 | 0.93 | -0.58 | -0.61 | -1.16 | -0.07 | -0.06 | 0.41 | 0.42 |
| Foxk2 | 0.46 | -0.31 | -0.53 | 0.33 | 0.70 | 1.93 | 0.90 | 0.86 | 0.52 | 1.32 | 0.33 | -2.54 | -0.78 | 0.37 | 0.47 | -1.60 | -0.21 | 0.40 | -1.20 | -0.01 |
| D14ErtD725 | -1.24 | -0.37 | -0.86 | -0.59 | 0.26 | -0.66 | 0.11 | 0.72 | 0.36 | 1.54 | 0.11 | -2.82 | -0.65 | -1.48 | 0.03 | 0.17 | 0.33 | 0.61 | -0.68 | -1.93 |
| Cbln4 | 0.18 | -0.27 | -0.28 | 0.40 | 0.44 | 0.76 | 2.56 | 0.41 | 0.83 | 0.75 | 0.10 | -0.81 | 0.21 | -1.14 | -0.65 | -0.44 | -0.63 | -1.56 | -0.21 | -0.30 |
| Ssh1 | -0.46 | 0.10 | -0.82 | 0.50 | -0.15 | 0.39 | -0.38 | 0.47 | 1.76 | 1.77 | 0.11 | -0.31 | -1.17 | -1.85 | 0.20 | 0.19 | -1.56 | 0.08 | 1.01 | 0.21 |
| Shank3 | 1.05 | -1.15 | -0.19 | -0.62 | 0.26 | 0.08 | 0.72 | 0.91 | 1.42 | 0.98 | 0.62 | -0.64 | -0.55 | -1.15 | -0.83 | -2.27 | 1.01 | -0.27 | -0.88 | -0.26 |
| Akr1e1 | -0.43 | -0.23 | -0.38 | 0.11 | -0.51 | 0.38 | 1.25 | 0.61 | 0.60 | 0.45 | -0.36 | 0.30 | 0.24 | -0.34 | -1.33 | -1.77 | 0.29 | 0.83 | 0.65 | 1.13 |
| Raph1 | 0.68 | -0.24 | -0.86 | -0.55 | -1.03 | 0.91 | 0.21 | 0.17 | 1.24 | 1.17 | -1.16 | -2.04 | 0.30 | -0.50 | 0.14 | 0.93 | -1.18 | 0.06 | 0.23 | -1.14 |
| Pfas | 0.65 | 1.02 | 0.82 | 1.07 | 0.57 | 2.04 | 1.47 | 2.22 | 1.68 | 1.39 | -1.01 | -1.40 | 0.30 | -1.00 | -0.53 | -0.55 | -0.05 | 0.13 | -0.76 | -1.09 |
| Fam109a | -0.41 | -1.02 | 0.43 | -0.74 | 0.49 | 0.88 | 0.38 | 0.38 | 1.75 | -0.01 | 1.18 | 0.70 | 1.52 | -0.85 | 0.04 | 0.77 | -2.81 | -0.38 | -1.18 | -0.54 |
| Ap5m1 | 0.21 | 0.51 | 0.23 | 0.26 | 0.79 | 1.76 | 1.23 | 0.61 | 1.29 | 1.71 | -0.85 | 0.50 | -0.60 | -0.55 | 0.88 | 0.26 | -0.99 | -0.73 | -0.44 | 0.24 |
| Pmpca | 0.58 | -0.02 | 0.34 | -0.23 | -0.72 | 0.49 | 1.16 | 0.04 | 1.92 | 0.95 | -1.05 | 0.50 | 0.39 | -0.90 | 1.43 | 0.45 | -1.25 | -0.39 | -0.09 | -0.93 |
| Meig1 | -0.81 | 0.58 | 0.36 | 0.19 | -0.27 | 0.44 | 1.14 | 0.46 | 1.08 | 1.49 | 0.14 | -0.82 | 0.02 | 1.17 | -1.01 | 0.46 | 0.27 | 0.46 | 0.18 | 0.75 |
| Dffa | -1.23 | -0.42 | 0.15 | 0.14 | 0.29 | 1.28 | -0.12 | 0.55 | 0.87 | 0.87 | 0.74 | 0.28 | 0.98 | -1.40 | -0.64 | -2.28 | -0.03 | 0.05 | 0.58 | -1.74 |
| Kndc1 | 0.59 | 0.87 | 1.01 | 0.73 | 0.78 | 2.23 | 0.89 | 1.74 | 1.51 | 2.04 | -0.23 | -1.04 | -0.61 | -1.43 | -1.42 | -0.34 | -0.79 | -0.26 | -0.89 | 0.23 |
| Plpp1 | 0.09 | -0.76 | 0.17 | -0.17 | -0.91 | 0.69 | 1.10 | 0.59 | 0.85 | -0.39 | -3.93 | -1.10 | 0.37 | -0.16 | -0.43 | -0.46 | 0.89 | -1.91 | -1.78 | 0.11 |
| Il17rb | -0.34 | 0.18 | 0.03 | 0.46 | -0.56 | 1.23 | 0.59 | 0.15 | 1.07 | 1.11 | -0.64 | -1.41 | -0.05 | -0.54 | 0.81 | -2.81 | -0.68 | 1.25 | 0.52 | 0.31 |
| Mid1 | -0.89 | -1.09 | 0.49 | 0.22 | 0.16 | 1.07 | 0.47 | 0.86 | 0.43 | 0.40 | -1.54 | 0.03 | -1.27 | -2.13 | 0.56 | -1.31 | -0.87 | 0.47 | 0.83 | -0.16 |
| Slc52a2 | 0.80 | 0.94 | -0.17 | 0.72 | -0.57 | 0.66 | 1.69 | 0.99 | 1.36 | 1.38 | -0.74 | -1.55 | -0.98 | -1.80 | 0.44 | -1.70 | 0.33 | 1.23 | -1.88 | 0.54 |
| Fam204a | 1.42 | 0.71 | 0.46 | 0.44 | -0.82 | 1.56 | 1.28 | 1.33 | 1.41 | 0.96 | 0.04 | -1.97 | 0.10 | 0.37 | 0.76 | -1.03 | -0.30 | 0.24 | -0.59 | 0.84 |
| Dact3 | 1.82 | 0.49 | 1.11 | 0.81 | 0.40 | 1.67 | 1.69 | 1.29 | 1.87 | 2.42 | -0.48 | -0.50 | -1.14 | -1.19 | -0.51 | -0.86 | -0.38 | 0.02 | -1.65 | -0.55 |
| Zfp956 | 0.34 | 0.98 | | | | | | | | | | | | | | | | | | |

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|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Rab34 | -0.11 | 0.84 | 0.77 | 0.45 | 0.23 | 0.85 | 1.31 | 1.11 | 1.74 | 1.01 | -0.81 | 0.40 | -0.10 | -1.25 | -0.62 | -0.50 | -0.46 | -0.40 | 0.07 | 0.72 |
| Gpr146 | 0.82 | -0.07 | 0.61 | 0.05 | 0.52 | 0.92 | 1.85 | 0.64 | 1.34 | 0.85 | -1.50 | 0.34 | -0.51 | -0.28 | -0.22 | 0.60 | -2.11 | -0.64 | -0.06 | -0.02 |
| Slc7a6 | 0.67 | 0.24 | 0.36 | 0.85 | 0.49 | 1.38 | 1.38 | 1.90 | 0.65 | 0.84 | -0.95 | -0.44 | 0.20 | -0.66 | 1.54 | -0.09 | 0.43 | 0.30 | 0.45 | -0.09 |
| Gins1 | 0.11 | -0.37 | -0.50 | 0.04 | 0.65 | 0.40 | 0.69 | 0.47 | 0.87 | 0.79 | -0.14 | 0.10 | -0.81 | -0.79 | 1.07 | -1.28 | -4.02 | 0.23 | 0.62 | -1.54 |
| Alg2 | 1.10 | 1.18 | 1.33 | 0.95 | 1.33 | 1.55 | 1.47 | 1.74 | 2.31 | 2.01 | -0.36 | -0.74 | -0.34 | -0.53 | -0.49 | -0.68 | -0.68 | -0.06 | -0.89 | -1.17 |
| Tle2 | 0.72 | 1.04 | 1.25 | 0.72 | 1.05 | 1.77 | 1.47 | 1.56 | 1.78 | 1.35 | -0.46 | -0.65 | 0.06 | -0.57 | -0.80 | -1.47 | -0.26 | -0.16 | -0.11 | -0.33 |
| Grwd1 | 0.88 | 0.74 | 0.58 | 0.62 | 1.18 | 1.21 | 1.29 | 1.55 | 1.56 | 1.47 | 0.38 | -0.99 | -1.08 | -1.68 | -0.55 | 0.52 | 0.95 | -0.34 | -1.03 | -1.62 |
| Rab5a | 0.56 | -0.01 | 0.74 | 0.42 | 0.05 | 1.11 | 0.71 | 1.05 | 0.90 | 1.04 | 0.54 | -1.18 | 1.27 | -0.12 | -1.01 | -0.45 | 1.02 | 1.38 | 0.60 | 0.49 |
| Tubb5 | -0.86 | -0.18 | 0.23 | -1.99 | -0.51 | 0.98 | 0.32 | 0.33 | 1.99 | 2.95 | 0.28 | 0.62 | -0.14 | -1.54 | -0.13 | 0.56 | -0.31 | 0.80 | -0.71 | 0.16 |
| Spire1 | -0.41 | -1.63 | -2.01 | -1.88 | -1.51 | 0.35 | 0.35 | 0.69 | -0.04 | 0.48 | 0.88 | 0.54 | -0.22 | -0.32 | -1.41 | 0.55 | 0.01 | 0.40 | 0.66 | 0.16 |
| Fmc1 | -1.38 | -0.52 | -3.17 | -0.59 | -0.97 | 0.99 | 0.71 | -1.07 | 0.99 | 0.97 | 0.99 | -0.33 | 0.41 | 0.13 | -0.44 | -0.17 | -1.15 | -0.54 | -0.81 | 0.71 |
| Hnmt | -0.34 | -1.09 | -1.60 | -0.76 | -1.57 | 1.43 | 1.39 | 0.76 | -0.85 | 0.82 | 1.68 | 0.12 | 0.73 | 0.88 | -0.85 | -1.34 | 0.80 | -0.26 | 1.10 | -0.68 |
| Shtn1 | -1.91 | 0.27 | -0.26 | -0.27 | -1.56 | 0.91 | 0.10 | 2.02 | 0.72 | 1.21 | -0.37 | -0.34 | -0.58 | -0.51 | 0.90 | 0.48 | 1.52 | 0.09 | -0.47 | -0.56 |
| Iars2 | -0.81 | 0.52 | 0.25 | -1.44 | -4.35 | 0.70 | 0.61 | 0.26 | 0.27 | 0.54 | 0.32 | 0.67 | 0.73 | 0.41 | -0.14 | 0.52 | 0.12 | -0.59 | 0.27 | 0.44 |
| Huwe1 | 0.76 | 0.08 | -1.38 | -2.98 | -2.57 | 0.36 | 0.85 | 0.34 | 0.65 | -0.16 | 0.81 | 0.61 | 0.36 | 1.09 | 0.85 | 0.86 | 0.39 | -0.29 | 0.16 | 0.78 |
| Wnt8b | -4.20 | 0.18 | -0.07 | -0.71 | 0.34 | 0.75 | 0.32 | 0.84 | 0.86 | 0.87 | 1.63 | -1.31 | -0.55 | 0.26 | -0.82 | -0.43 | -0.41 | -1.07 | 0.01 | 0.53 |
| Gm19313 | -0.71 | -2.01 | -0.99 | -0.80 | -0.87 | 0.32 | 0.27 | 0.52 | 1.48 | 0.05 | -0.64 | -0.92 | -1.96 | 0.10 | -1.38 | -0.63 | -2.15 | -0.72 | 0.86 | 0.37 |
| Scgn | -0.24 | 0.69 | -2.49 | -3.09 | 0.41 | 0.76 | 1.16 | 0.85 | 0.87 | -0.45 | -0.56 | 1.28 | 0.02 | -0.10 | 0.87 | -0.89 | 0.31 | -0.91 | -0.77 | -0.85 |
| Tmtc3 | -0.82 | -0.66 | -1.76 | -1.49 | -0.84 | 0.92 | 0.68 | 0.38 | 0.02 | 0.30 | -0.39 | 0.75 | -1.05 | 0.15 | 0.55 | -0.21 | -0.41 | 0.47 | -0.20 | 0.38 |
| Tshz3 | 0.39 | -0.32 | -1.48 | -0.85 | -0.89 | 0.21 | 1.51 | 1.57 | -0.30 | 1.67 | 0.35 | 0.46 | -0.66 | -1.83 | 1.68 | 0.36 | -1.07 | -1.15 | -0.15 | -0.08 |
| Emsy | 0.94 | -0.60 | -3.04 | -0.26 | -1.25 | 0.19 | 1.17 | 0.75 | 0.62 | 0.89 | -0.05 | 0.83 | 0.21 | 0.40 | -0.42 | -1.43 | -1.04 | 0.80 | 0.36 | 0.59 |
| Nob1 | 0.35 | -1.36 | -0.96 | -1.03 | -0.39 | 1.43 | -0.52 | 0.61 | 1.14 | 1.53 | -0.03 | -0.81 | -1.31 | -1.34 | 0.52 | 1.96 | -0.72 | 1.11 | -2.07 | 0.30 |
| Xlr | -2.30 | 0.74 | -1.41 | -0.05 | -2.09 | 0.28 | 0.95 | 0.63 | 1.15 | -0.71 | -0.40 | -0.46 | -0.48 | -0.58 | -1.94 | 1.08 | 0.00 | 0.97 | 1.69 | 1.76 |
| Naf1 | -0.95 | -1.24 | -0.04 | -0.17 | -0.79 | 0.80 | 0.73 | 0.34 | 0.36 | 1.78 | -0.62 | -0.07 | -0.51 | 1.11 | -0.35 | 1.68 | -0.88 | 0.37 | 0.28 | 2.11 |
| C76872 | -0.43 | -1.28 | -0.29 | -2.39 | -1.21 | 0.85 | -0.26 | -0.11 | 0.66 | 0.35 | -0.83 | 0.14 | -1.88 | 1.29 | 0.96 | -0.71 | 0.80 | -0.45 | 0.59 | -0.12 |
| Blvra | -1.33 | -0.10 | -1.11 | -0.88 | -1.97 | -0.20 | 1.94 | -0.07 | 0.61 | -0.60 | 1.52 | -0.34 | 0.37 | 0.11 | -0.77 | 0.03 | -0.86 | -0.96 | 0.06 | 0.11 |
| Kcnp1 | -0.18 | 0.66 | -0.35 | 0.94 | -2.86 | 1.04 | 1.41 | 0.80 | 1.01 | 0.89 | 0.30 | 0.96 | -0.45 | -0.17 | 0.96 | 0.26 | 0.61 | 0.09 | 0.17 | 0.78 |
| Rps15 | 0.32 | 0.61 | 0.46 | -2.43 | -0.26 | 0.49 | 1.10 | 0.96 | 1.89 | 1.08 | -0.52 | 0.46 | -1.84 | -0.12 | -0.06 | 0.22 | -1.64 | 0.34 | -0.20 | 1.08 |
| Ovgp1 | -1.54 | -0.53 | -0.44 | -0.65 | -0.28 | 1.71 | -0.36 | 0.91 | 0.49 | 0.59 | -0.13 | -0.35 | -2.23 | -0.28 | 1.07 | 0.73 | 0.96 | 1.83 | -0.52 | -0.45 |
| Tbck | 0.05 | -2.81 | -0.32 | -2.42 | -0.51 | 0.42 | 0.31 | 0.50 | -0.55 | -0.15 | 0.82 | 0.66 | 0.70 | -0.02 | 0.68 | 0.71 | 0.54 | -3.51 | 0.32 | 0.47 |
| Tmem217 | -0.08 | -0.01 | -2.91 | -0.34 | 0.10 | -0.40 | 0.95 | 0.64 | 0.79 | 1.23 | 0.23 | 1.03 | 0.82 | -1.02 | -0.96 | -0.45 | 0.64 | 1.28 | 0.28 | 0.86 |
| Per1 | 0.40 | -1.14 | -0.02 | 0.04 | 0.32 | 0.55 | 1.37 | 1.24 | 1.02 | 1.84 | 0.25 | 0.26 | -1.54 | 0.20 | 1.38 | 0.29 | -0.35 | -0.50 | 0.96 | 1.02 |
| Fam45a | -0.04 | 0.92 | 0.21 | -0.93 | -1.28 | 1.25 | 0.15 | 0.94 | 1.62 | 1.31 | -0.17 | 1.21 | -0.45 | -0.41 | 0.14 | 0.83 | -1.37 | -0.11 | 1.45 | 0.70 |
| Oxr1 | -0.01 | -0.50 | -1.27 | -2.18 | -0.87 | 0.15 | -0.38 | -0.20 | 0.27 | 1.74 | 1.79 | 1.56 | 1.47 | 0.18 | 0.55 | 1.00 | 0.58 | 0.18 | -1.88 | -1.63 |
| Zfp566 | -0.09 | -1.25 | -0.12 | -0.77 | -2.35 | 0.43 | 1.18 | -0.96 | 0.52 | 0.63 | 0.65 | -1.46 | -1.67 | 1.08 | 0.40 | 0.70 | 0.47 | -0.65 | 0.07 | -0.35 |
| Gm38604 | -1.62 | 0.71 | -0.96 | -0.68 | -0.55 | 0.78 | 1.13 | 1.28 | 0.09 | -0.04 | 0.46 | -0.89 | 0.44 | -0.28 | -2.23 | 1.21 | 0.26 | 0.69 | -0.53 | 0.25 |
| Cradd | 1.67 | -0.35 | -0.77 | -1.38 | -1.00 | 1.62 | 0.73 | 0.76 | 0.71 | 0.60 | 0.61 | -0.01 | -1.25 | -0.46 | 0.69 | 0.71 | -2.37 | -1.34 | -0.04 | -0.16 |
| Sowahb | 0.14 | -0.62 | -1.34 | -0.81 | -1.60 | 1.26 | -0.56 | 1.34 | -0.82 | 0.79 | 0.26 | -0.71 | -1.95 | 2.33 | 0.84 | -0.82 | -0.65 | 0.14 | -1.17 | -0.13 |
| Gxy1t1 | 0.28 | -1.07 | -1.14 | -0.50 | 0.74 | 1.35 | 1.10 | 1.09 | 1.05 | -0.06 | -0.34 | -0.78 | -0.29 | 1.16 | 0.47 | 0.37 | 0.76 | -0.19 | -0.98 | 1.70 |
| Zfp78 | 0.09 | -2.31 | -0.87 | 0.49 | 0.05 | 0.78 | 0.36 | 1.83 | -0.34 | 1.01 | 0.83 | 1.11 | -0.85 | -0.20 | 1.29 | 0.29 | 0.53 | -0.48 | -0.06 | -0.26 |
| Wdr6 | -0.19 | 0.78 | -0.50 | -0.51 | -0.11 | 2.45 | 1.95 | 0.70 | 0.46 | 0.07 | 0.93 | -0.42 | 0.71 | -0.43 | 0.16 | 0.15 | 1.85 | 0.79 | 0.65 | -0.83 |
| Rangap1 | 0.03 | -0.23 | -1.92 | -0.07 | -0.63 | 0.62 | 0.78 | 0.52 | 0.54 | 0.88 | 0.26 | 1.52 | 0.28 | 0.41 | -0.44 | -0.19 | -0.33 | -2.29 | 0.16 | -0.11 |
| Krt42 | -0.28 | -0.25 | -1.06 | -0.11 | -2.28 | 0.30 | 0.04 | 1.61 | -0.41 | 0.63 | -1.28 | 0.78 | -1.99 | 0.49 | 0.51 | -1.02 | -0.19 | -1.07 | 0.47 | -0.13 |
| Patl2 | -0.71 | -2.61 | -1.46 | -1.06 | 0.35 | 0.65 | 0.36 | 1.04 | -1.21 | -0.32 | -0.02 | 1.64 | -0.45 | 0.43 | -2.36 | -0.58 | 1.08 | 0.05 | 0.19 | -0.65 |
| Map3k10 | -0.21 | -0.14 | -2.88 | -1.23 | -0.34 | -0.33 | 0.61 | 1.20 | -0.61 | 0.33 | 0.45 | -0.37 | -0.13 | 1.59 | 0.75 | -0.42 | -0.44 | 1.11 | -0.84 | -1.28 |
| Nnt | -0.13 | 0.41 | -1.23 | -0.15 | -2.71 | 0.23 | 0.65 | 0.73 | 0.31 | 0.19 | 0.76 | 0.71 | -0.52 | 0.10 | 0.43 | -0.44 | 0.13 | -0.11 | 0.30 | 0.22 |
| Zfr | -0.77 | 0.39 | 0.38 | -1.65 | -1.78 | 0.44 | 0.50 | 0.31 | 0.42 | 0.81 | 0.25 | -0.32 | 0.60 | 0.26 | 0.62 | 0.20 | 0.87 | -4.91 | 0.09 | 0.15 |
| Kcnq5 | 0.16 | -0.29 | -1.68 | -1.81 | -1.29 | 0.47 | 0.67 | 0.20 | 0.12 | -0.47 | 1.70 | -0.39 | 0.37 | 1.10 | -2.05 | -0.60 | 0.27 | 0.35 | -0.34 | -1.85 |
| Ehmt1 | -0.45 | -2.13 | 0.07 | -1.23 | -0.80 | 0.85 | -0.87 | -0.87 | 0.58 | 1.62 | 0.67 | 0.41 | -2.61 | -0.93 | 0.97 | -0.67 | -0.16 | 0.19 | -0.59 | 0.24 |
| Tmem189 | -1.05 | -0.44 | 0.21 | -1.14 | 0.71 | 0.24 | 0.78 | 0.90 | 1.14 | 1.09 | 1.29 | 0.44 | 0.55 | -0.65 | 0.82 | 0.64 | 0.06 | -0.23 | -0.71 | 0.41 |
| Nek9 | 0.32 | 0.32 | -0.85 | -0.46 | -1.79 | 0.07 | 0.29 | 0.61 | 1.01 | 1.49 | -0.96 | 0.07 | 0.45 | -0.05 | -0.25 | 1.55 | -0.15 | -0.30 | 1.94 | 1.23 |
| Fam49b | -0.78 | -1.00 | -1.82 | 0.19 | -1.58 | 0.60 | 0.48 | -1.15 | -0.62 | 1.47 | 0.34 | -0.63 | -0.82 | 0.84 | -1.17 | 0.94 | -0.69 | 0.70 | -0.67 | 0.37 |
| Defb10 | -0.73 | 0.09 | -0.72 | -2.13 | -0.49 | 0.30 | -0.28 | 0.22 | 0.59 | 0.91 | -0.48 | 0.50 | 0.29 | -1.86 | 1.02 | -0.16 | -0.67 | 0.04 | -2.42 | 0.89 |
| Sae1 | -0.17 | -0.47 | -1.57 | -0.89 | 0.17 | 0.00 | 0.73 | 0.27 | 1.12 | 0.59 | -0.61 | 0.56 | 0.20 | 0.60 | -0.68 | 1.34 | 0.86 | -0.78 | 0.95 | -1.09 |
| Rab11fip1 | -0.55 | 0.06 | -0.33 | -2.10 | -1.41 | 0.97 | 0.30 | -0.06 | 0.16 | -0.12 | 0.54 | 0.68 | -0.50 | 0.74 | 0.55 | -0.12 | -0.01 | 0.82 | 1.12 | -1.66 |
| Kdm6b | 0.63 | -1.62 | -0.38 | 0.00 | -1.92 | 0.74 | 0.74 | 0.44 | -0.49 | 0.86 | -1.48 | 0.24 | -1.95 | 0.70 | -0.49 | -0.47 | 0.96 | -0.29 | 0.33 | 0.91 |
| Fbxl14 | 0.67 | -0.16 | -0.07 | 0.16 | -1.85 | 0.87 | 1.32 | 0.98 | 0.91 | 0.20 | 0.02 | -0.17 | 0.65 | 0.17 | -0.49 | 0.76 | 0.51 | -0.48 | 1.13 | 1.14 |
| Ccdc88a | -1.23 | -0.74 | -1.05 | 0.61 | -1.22 | 0.78 | -1.05 | 1.20 | 0.80 | 1.13 | 0.39 | -0.22 | -0.44 | 0.04 | 0.04 | -0.84 | -0.47 | -0.13 | 0.66 | 0.31 |
| Cxcl16 | -0.23 | -0.20 | -0.83 | -0.29 | -1.65 | 0.96 | -0.49 | 1.27 | -0.71 | 1.26 | 0.77 | 0.34 | -0.62 | -0.73 | -1.52 | 1.20 | -0.11 | 0.51 | 0.61 | 0.67 |
| Ccdc122 | 0.64 | 0.77 | -1.39 | -0.75 | -1.25 | 1.59 | 0.40 | 0.00 | 0.90 | 0.56 | -1.37 | 0.15 | -1.46 | -0.23 | 0.16 | 0.75 | -0.10 | -0.49 | 1.78 | 0.39 |
| Ccdc138 | -1.06 | -1.68 | -0.30 | 0.24 | -0.53 | -0.06 | 0.89 | 1.39 | -0.56 | 0.39 | 0.26 | 0.69 | 0.62 | -0.10 | -1.22 | 1.88 | -0.50 | -0.92 | -0.88 | -1.19 |
| Emp2 | 0.28 | -0.84 | -1.28 | -2.30 | -1.42 | 0.73 | -0.76 | -0.86 | 0.05 | 0.44 | 0.78 | 0.50 | -2.62 | 0.31 | -0.33 | 0.35 | 0.18 | 0.70 | -1.63 | 0.96 |
| D10Jhu81e | -1.93 | -0.28 | 0.43 | -0.53 | -0.03 | 0.72 | 1.21 | 0.41 | -0.20 | 0.65 | 0.36 | -1.57 | 0.13 | 0.01 | -0.65 | -1.10 | -0.67 | -1.44 | 1.62 | 1.63 |
| Cr2 | 0.28 | -1.55 | 0.31 | -0.14 | -1.74 | 0.85 | 0.21 | 0.23 | 0.24 | 0.71 | 0.45 | 1.20 | -0.73 | -0.19 | 0.20 | 0.26 | -1.13 | 0.35 | 1.01 | |

| | | | | | | | | | | | | | | | | | | | | |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Mastl | -4.49 | -0.07 | 0.24 | -2.20 | -1.28 | 0.38 | 0.68 | 0.69 | 0.79 | -0.43 | 0.21 | 0.22 | 0.19 | 0.22 | -0.26 | 0.27 | -0.03 | -1.00 | 0.78 | -1.57 |
| C78760 | -1.13 | -2.25 | -1.45 | -1.72 | -0.71 | 0.53 | -0.03 | 0.98 | 0.25 | 0.20 | 0.29 | -0.01 | -1.26 | 1.41 | 0.76 | 0.17 | 1.78 | -0.66 | 0.64 | 1.10 |
| Etl4 | -0.60 | -1.74 | -1.05 | -0.86 | -2.34 | 0.13 | 0.27 | 0.54 | 0.25 | 1.11 | 0.48 | 0.31 | 0.05 | 0.52 | 0.34 | 1.00 | -0.06 | -0.09 | 0.34 | 1.24 |
| Ppp2r2b | 0.33 | -3.17 | -1.33 | -2.11 | -1.09 | 0.51 | 0.36 | -0.01 | -0.51 | 1.09 | -0.01 | 0.95 | 0.65 | -0.21 | 0.26 | 0.69 | 0.83 | 0.86 | 0.69 | 0.26 |
| Heatr1 | -1.58 | -4.25 | -0.52 | -1.65 | -0.32 | 0.31 | 0.28 | 0.51 | -0.89 | -0.30 | 0.87 | 0.84 | -1.33 | 0.58 | 0.74 | 0.16 | 1.18 | -0.18 | 0.23 | 0.81 |
| AA415038 | -3.21 | -1.30 | -1.76 | -1.01 | -0.66 | -0.15 | 0.31 | 0.09 | -0.10 | 0.06 | 0.29 | 0.31 | -0.20 | 0.35 | 0.69 | 0.06 | -0.21 | -0.61 | 0.08 | 0.62 |
| Vax1 | -1.68 | -1.78 | 1.29 | -1.98 | -0.83 | 1.40 | 1.19 | 0.63 | -0.79 | 0.34 | -0.06 | -1.75 | 0.80 | -0.30 | 0.73 | 0.47 | -0.17 | -0.27 | -0.33 | -0.04 |
| Foxo3 | -2.29 | -1.80 | -0.57 | -1.23 | -1.01 | -1.36 | 0.29 | 0.17 | 0.09 | 1.60 | 0.25 | 1.72 | 0.08 | 0.31 | 0.63 | -0.34 | 1.19 | 0.01 | -0.11 | 0.80 |
| Ass1 | 0.91 | -2.96 | -0.25 | -1.71 | -2.06 | 0.70 | -0.38 | 1.24 | 0.52 | -0.50 | 0.43 | -0.02 | -0.16 | -1.40 | 1.07 | 0.15 | 1.22 | -0.25 | -0.60 | 0.73 |
| Piga | -1.53 | -0.04 | -0.90 | -1.46 | -1.89 | -0.32 | 0.10 | -1.25 | 1.32 | 1.91 | 2.46 | -0.08 | -0.21 | -0.33 | 1.42 | 0.60 | 1.28 | -0.46 | 1.07 | 0.56 |
| C80998 | -1.31 | -1.43 | -2.20 | -1.56 | -0.54 | 0.19 | 0.57 | 0.04 | 0.06 | -0.36 | -0.06 | -0.63 | -1.41 | 0.83 | 1.92 | 1.22 | 0.15 | -0.10 | -0.01 | 1.16 |
| Syp | -2.93 | -3.11 | 0.79 | -0.76 | -0.04 | 0.62 | -0.01 | 0.13 | -0.18 | 0.88 | -1.20 | -1.57 | 0.61 | 1.11 | 0.37 | 0.05 | -0.44 | 0.34 | -2.10 | 0.14 |
| Arhgef18 | -0.86 | -1.25 | -2.52 | -3.12 | -0.37 | -0.31 | -0.18 | -0.05 | 0.74 | -0.87 | 0.71 | 1.31 | 0.81 | 0.52 | 0.80 | -1.30 | 0.84 | 0.08 | -1.15 | 0.19 |
| Cwc27 | -0.89 | -0.44 | 0.26 | -2.47 | -1.01 | 0.92 | 0.08 | 0.01 | 1.61 | 0.18 | 0.02 | -0.70 | -0.32 | 0.66 | 0.92 | 0.40 | 0.06 | 1.48 | 1.10 | 1.12 |
| St8sia4 | -1.89 | -0.67 | -1.77 | -0.50 | -0.94 | -0.10 | 0.61 | 1.56 | -0.96 | 0.42 | -0.33 | 0.17 | 0.00 | 2.03 | 1.21 | -1.35 | 0.42 | 0.25 | -0.20 | -1.46 |
| Picl1 | -0.58 | -4.58 | -1.72 | -0.80 | -1.59 | -0.57 | -0.17 | -0.44 | -0.28 | -0.52 | 0.77 | 0.53 | 0.56 | 0.81 | 0.48 | 0.52 | 0.58 | 0.51 | 0.65 | 0.07 |
| Lrch3 | -1.04 | -2.22 | -1.60 | -1.86 | -2.21 | -0.40 | -0.86 | -0.55 | 0.88 | -0.75 | 0.71 | -1.42 | 0.42 | 0.40 | 0.14 | 1.36 | 0.63 | -0.43 | 1.04 | 1.19 |
| Vill | -0.61 | -2.46 | 0.01 | 0.10 | -3.59 | 0.58 | -0.48 | 0.33 | -0.19 | 0.45 | 0.19 | 0.34 | 0.71 | -2.77 | 0.01 | 0.72 | 0.20 | 1.02 | 0.30 | -0.40 |
| Ice2 | -1.99 | -0.68 | 0.58 | -1.01 | -0.96 | 1.14 | 0.56 | 0.20 | 0.63 | 0.59 | 1.38 | 1.00 | 0.51 | -0.25 | 0.03 | -0.24 | 0.23 | 0.38 | -0.35 | 0.50 |
| Gm14964 | -0.58 | -2.54 | -0.92 | -1.48 | -1.49 | 0.01 | 1.29 | 0.07 | -0.51 | -0.72 | -0.68 | -0.23 | 0.49 | 1.90 | -1.12 | 0.28 | -0.40 | -0.26 | -0.65 | 0.13 |
| Erlc1 | -2.17 | -1.19 | -1.39 | -1.74 | -2.05 | 0.35 | -0.84 | -0.42 | 0.48 | -1.00 | 0.84 | 0.54 | -0.31 | 0.01 | 1.50 | 0.08 | 0.30 | 0.37 | -0.01 | 0.49 |
| Strbp | -0.11 | -2.49 | -1.86 | -2.11 | -1.33 | 0.29 | -1.69 | -0.34 | 0.13 | 0.75 | -0.09 | -0.26 | -1.43 | 0.18 | 0.61 | -0.51 | 0.54 | 0.10 | -0.53 | -0.96 |
| Tango2 | -1.91 | -1.81 | -1.24 | 0.92 | -1.82 | 1.16 | -0.65 | -0.02 | 0.55 | 0.07 | -0.48 | 0.38 | 1.14 | 0.82 | -1.00 | -0.49 | 0.60 | 0.23 | 0.50 | 1.89 |
| Zdhc21 | -2.69 | -0.76 | -0.95 | -1.05 | -0.25 | 0.78 | -0.12 | 0.04 | 2.07 | -1.53 | -0.29 | -0.35 | 0.41 | -0.21 | -0.20 | -0.11 | 0.48 | 0.68 | 0.87 | 0.61 |
| C80425 | -3.76 | -2.10 | -0.15 | -1.64 | -0.69 | -0.60 | -0.94 | -0.27 | 0.40 | -0.05 | 0.46 | 0.64 | 0.58 | 0.81 | 0.57 | 1.27 | -0.03 | 0.65 | -0.40 | 0.64 |
| Prrg1 | -0.81 | -1.79 | -1.48 | -0.47 | -1.13 | -0.33 | 1.09 | -0.01 | 1.17 | -0.72 | 0.09 | 0.11 | 0.53 | 0.46 | 0.42 | 0.04 | 0.62 | -0.37 | -1.25 | -0.73 |
| Arx | -1.43 | -3.34 | -2.51 | -1.12 | -0.97 | -0.44 | -1.12 | -0.85 | -0.30 | -0.09 | 0.10 | 0.51 | 0.01 | -0.44 | 0.22 | 0.96 | 0.32 | -0.21 | 1.54 | 1.80 |
| Sp110 | -3.00 | -1.59 | -0.16 | -0.10 | 0.32 | -0.30 | -0.18 | 0.97 | 0.43 | 1.11 | 0.50 | -2.72 | -0.49 | -0.29 | 0.55 | -0.86 | -0.29 | 0.48 | 0.91 | 1.45 |
| Fzd4 | -0.01 | -1.19 | 0.41 | 0.48 | -2.29 | 0.79 | 1.09 | 1.40 | 1.50 | -0.88 | 0.72 | -3.05 | 1.24 | 0.55 | 1.20 | 0.89 | -0.23 | 0.73 | -0.10 | 0.29 |
| Pias1 | -1.16 | -1.73 | -1.24 | -1.79 | 0.58 | -1.25 | 0.23 | -0.25 | 1.05 | 1.34 | -0.43 | 1.23 | -0.59 | 1.10 | 0.71 | 1.42 | -0.44 | 0.41 | 0.85 | -1.66 |
| Ata1 | -0.39 | -1.06 | -2.46 | -0.14 | -1.25 | -0.40 | -0.60 | 1.24 | 0.50 | 0.40 | -1.13 | -0.35 | 0.93 | 0.32 | 0.31 | 0.86 | 1.62 | 0.21 | 0.38 | 0.12 |
| Elmsan1 | -1.64 | -1.54 | -0.92 | -0.54 | -0.74 | 0.99 | 0.42 | -0.45 | -0.07 | 0.05 | -1.62 | -0.97 | -0.59 | 0.58 | 1.92 | 0.52 | 0.99 | 1.11 | -0.16 | -0.04 |
| Wdr76 | -0.46 | -2.43 | 0.58 | 0.08 | -1.80 | 0.54 | 0.04 | 0.61 | 0.60 | 0.49 | -0.06 | 1.03 | 0.42 | 0.56 | 0.64 | -2.71 | -0.20 | 0.29 | 0.42 | 0.49 |
| D15Wsu12c | -0.93 | -1.61 | -0.35 | -1.78 | -1.65 | 0.62 | -1.03 | 0.75 | -0.36 | -0.01 | 0.15 | -1.07 | -0.96 | -0.01 | -0.19 | -0.73 | -0.96 | 1.13 | 0.75 | 1.01 |
| Rnf217 | -1.74 | -0.38 | -0.56 | -0.77 | -1.72 | 0.97 | 0.19 | 0.74 | -1.86 | 1.02 | 0.61 | -0.65 | 0.11 | 0.65 | 0.10 | 1.11 | 0.37 | 0.54 | -0.12 | -0.10 |
| AW555355 | -2.39 | -2.63 | -1.18 | -1.50 | -0.60 | -0.52 | -1.13 | -0.10 | 0.43 | -0.77 | -0.11 | -0.39 | -0.59 | 0.23 | 0.29 | 0.26 | -0.69 | 0.19 | 0.55 | 0.23 |
| Cd200r4 | -2.11 | -1.49 | -1.39 | 0.21 | -1.30 | -1.16 | -0.50 | 0.70 | 0.03 | 0.98 | -0.09 | 0.75 | 0.25 | 0.48 | 0.70 | 0.86 | 0.75 | 0.03 | 1.33 | 1.23 |
| Gpatch8 | -0.67 | -2.38 | -0.43 | -1.01 | -0.75 | 0.58 | 0.25 | -0.97 | 0.34 | 0.55 | 0.51 | -1.14 | -1.57 | -0.06 | -0.17 | -1.66 | 0.75 | 0.68 | -0.21 | -0.20 |
| LOC553089 | -2.58 | -2.00 | -2.80 | -0.49 | 0.07 | -0.27 | -0.58 | 0.03 | 0.21 | -1.22 | -0.17 | 0.44 | -0.31 | 0.57 | 1.03 | -0.40 | 0.75 | 0.97 | -0.03 | 0.90 |
| Amy1 | -1.47 | -1.09 | -1.18 | -1.28 | -1.37 | 0.48 | -0.57 | -0.21 | 0.15 | -0.32 | -0.07 | 0.34 | 0.60 | 0.38 | 2.44 | 0.82 | 0.58 | 1.14 | 1.05 | 0.39 |
| Trim44 | -1.15 | -0.73 | -1.12 | -0.83 | -2.01 | -0.30 | -0.08 | -0.66 | 0.80 | 0.14 | 0.07 | 0.42 | 0.46 | 2.84 | 0.48 | -1.77 | 0.46 | 0.56 | -0.70 | -0.15 |
| Nampt | -2.07 | 0.61 | -1.88 | -2.45 | -1.58 | -0.20 | -0.62 | -0.64 | -0.65 | 0.46 | 0.64 | 1.05 | 0.19 | -0.20 | 0.20 | 1.34 | 1.09 | 1.50 | 0.28 | 1.16 |
| Thbs2 | -2.10 | -1.15 | -0.51 | -0.49 | -1.39 | 0.44 | -0.41 | -0.46 | 0.95 | -0.46 | -0.07 | 1.13 | 0.08 | -1.52 | 0.84 | 0.27 | 0.85 | 0.26 | 1.68 | 1.19 |
| Slc40a1 | 0.17 | -1.03 | -0.63 | -0.39 | -0.59 | 0.02 | 1.24 | -0.10 | 1.05 | 1.01 | -0.36 | -0.57 | 0.86 | 0.79 | 0.43 | 0.32 | -0.98 | 1.39 | 0.39 | 0.61 |
| D93000180 | -0.67 | -0.49 | -2.32 | -2.30 | -1.74 | -0.59 | -1.43 | -1.09 | 0.35 | 0.89 | 1.03 | 0.28 | -0.21 | -0.37 | 1.61 | -1.01 | -0.77 | 0.62 | -0.43 | -0.67 |
| Ankr33b | -1.65 | -1.64 | -1.58 | -2.32 | -1.65 | -0.69 | -1.84 | -0.26 | -0.85 | 0.40 | 0.37 | 0.59 | -0.04 | 0.13 | 0.15 | 0.15 | 0.36 | 0.41 | 0.18 | -1.34 |
| Nr1d2 | -1.26 | -1.15 | -1.90 | -1.05 | -0.35 | -0.43 | 0.14 | -0.35 | 0.23 | 0.30 | 1.07 | 0.70 | 0.81 | 0.77 | 1.42 | -0.02 | -0.26 | 1.49 | 1.18 | 2.65 |
| Tnfaip6 | -1.79 | -0.88 | -0.82 | -0.93 | -1.65 | 0.17 | 0.35 | 0.27 | 0.17 | -1.50 | 0.45 | 0.59 | 0.69 | -0.56 | 0.58 | 1.45 | 0.13 | 0.71 | 2.41 | 1.71 |
| Bvht | -1.14 | -0.69 | -1.45 | -1.39 | -2.38 | -1.46 | 0.98 | -0.02 | 0.14 | -1.27 | 0.65 | -1.72 | -0.94 | 1.39 | 1.39 | -0.33 | 0.44 | -0.23 | 0.91 | -0.49 |
| BC028789 | -1.26 | 0.51 | -1.41 | -1.98 | -0.50 | 0.56 | 0.47 | 0.18 | -0.91 | 0.49 | 0.30 | -1.47 | 1.63 | -1.47 | 0.45 | 1.67 | 0.37 | 1.00 | -0.88 | 0.92 |
| Mfsd2b | 0.33 | -2.16 | -0.35 | -1.01 | 0.33 | 0.87 | 0.49 | 0.60 | -0.04 | 0.55 | 0.50 | 0.55 | 0.53 | 0.02 | 1.05 | 0.44 | 1.03 | 0.66 | 0.49 | 0.39 |
| Plk4 | -0.71 | -1.24 | -1.75 | -1.20 | -2.37 | -1.33 | -1.41 | 0.17 | 0.67 | -0.06 | 0.76 | 1.08 | 0.27 | -0.26 | 0.33 | 0.67 | 0.75 | 0.70 | 0.57 | 1.03 |
| Eif1a | -1.26 | -0.19 | -0.65 | -0.31 | 0.29 | 0.31 | 1.01 | -0.26 | -0.66 | -1.20 | 1.22 | -1.28 | 1.75 | -0.58 | 0.81 | 1.04 | 1.25 | -0.34 | 1.18 | 0.49 |
| Lonp2 | -1.27 | -1.09 | 0.33 | -1.43 | 0.56 | 0.77 | -0.03 | 0.20 | 0.40 | 1.03 | -1.27 | 0.46 | 0.61 | -0.85 | 0.88 | 0.26 | -0.78 | 0.48 | -0.61 | 0.96 |
| Slc44a1 | -1.58 | -3.04 | -0.34 | -0.56 | -0.25 | 0.23 | -0.03 | -0.22 | -0.44 | -0.09 | -0.45 | -0.16 | 0.64 | 1.05 | 1.04 | 1.23 | 0.28 | 1.21 | 0.49 | 0.86 |
| Nkain2 | -1.91 | -0.04 | -1.13 | -1.99 | -0.10 | 0.71 | -1.05 | -0.10 | 0.51 | -0.04 | 0.09 | 0.69 | 0.13 | 0.52 | 1.49 | -0.86 | 1.69 | 1.57 | -0.93 | -1.70 |
| Polr3e | -0.78 | -0.77 | -1.12 | -1.33 | -1.98 | -0.88 | -0.21 | 1.29 | -1.40 | 0.38 | 0.16 | 0.24 | 0.13 | 0.65 | 1.12 | 1.13 | -1.14 | 1.19 | 1.10 | 0.49 |
| Zfp942 | -0.62 | 0.48 | -0.68 | -0.24 | -0.11 | 0.28 | 0.51 | 0.80 | 2.28 | 0.08 | -0.87 | 0.26 | 2.69 | 0.08 | 0.93 | 0.85 | 0.76 | 0.17 | 1.24 | -0.20 |
| Bcl2 | -2.09 | -0.75 | 0.38 | -1.24 | -0.54 | 0.03 | -0.08 | -0.19 | 0.61 | 0.46 | -0.77 | -0.88 | -0.17 | 0.20 | -0.05 | 0.44 | -0.78 | -0.49 | 0.88 | 2.08 |
| Figl | -2.23 | -0.39 | -0.53 | -0.23 | -0.78 | 0.42 | 0.27 | -0.23 | 0.33 | 0.11 | 0.92 | 0.03 | -0.91 | 0.25 | -0.04 | 0.42 | -0.24 | 0.55 | 0.75 | 0.30 |
| Six4 | -0.25 | -2.01 | 0.44 | -0.28 | -1.47 | 0.11 | 0.39 | -0.46 | 1.08 | 0.36 | -0.22 | 0.88 | -0.46 | 1.13 | 0.91 | 0.85 | 1.13 | -0.90 | 0.35 | -1.11 |
| Rhou | -1.11 | 0.06 | -0.34 | -1.29 | -1.64 | 0.28 | -1.08 | 0.17 | 0.70 | 0.62 | 0.06 | 0.85 | -0.19 | 1.04 | 0.67 | 1.57 | 0.87 | 0.20 | 1.36 | 1.77 |
| Zfp189 | -1.86 | -1.56 | -1.57 | -0.26 | -0.67 | 0.28 | 0.10 | -0.48 | -0.14 | -0.68 | 0.30 | -0.53 | 0.80 | 0.92 | 0.30 | -0.28 | 1.21 | 1.53 | 0.92 | -1.16 |
| Gpr158 | -1.12 | -1.50 | -1.73 | -1.31 | -2.82 | 0.01 | -0.40 | -0.83 | -0.78 | -1.70 | 0.15 | 0.91 | 0.47 | 0.83 | 1.20 | 0.27 | | | | |

| | | | | | | | | | | | | | | | | | | | | |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Rpl8 | -0.36 | -1.05 | -1.67 | -1.64 | -0.46 | -0.03 | -0.65 | -0.61 | 0.01 | 0.17 | -0.25 | 0.64 | -0.97 | -1.40 | 0.83 | 1.85 | -1.06 | 1.20 | -0.71 | 0.79 |
| Lmbr1 | -0.84 | -0.65 | -1.42 | 0.07 | -0.23 | 0.19 | 0.14 | -0.24 | 0.95 | -0.21 | 0.81 | 0.11 | 1.54 | -0.21 | 0.32 | 0.42 | -0.37 | 1.04 | -1.51 | -0.89 |
| Fbxo46 | -0.57 | -1.19 | 0.12 | -1.06 | -0.40 | -0.10 | 0.33 | 0.33 | 0.42 | -0.20 | 0.48 | 1.18 | 0.88 | 1.09 | 0.69 | -0.10 | -0.81 | 0.57 | 0.34 | 0.84 |
| Ldhd | -0.77 | -1.36 | -0.77 | -0.87 | -0.94 | -1.09 | -0.34 | 0.24 | 0.33 | -0.06 | -0.22 | 0.59 | 0.19 | -0.89 | 0.12 | 0.51 | -0.89 | -0.61 | 1.16 | 0.97 |
| Tcerg1 | -1.60 | -1.61 | -1.92 | -1.83 | -2.14 | -1.22 | -0.97 | -1.35 | -0.66 | -1.68 | 0.91 | 1.33 | 0.36 | 0.42 | 0.41 | 0.33 | 0.62 | 0.78 | -0.07 | 0.11 |
| Echs1 | -1.00 | -1.19 | -1.28 | -1.01 | -1.08 | -0.31 | -0.17 | -0.55 | -0.96 | -0.61 | -0.18 | 0.22 | -0.48 | 1.08 | -0.72 | 1.11 | -0.03 | -0.12 | 1.27 | 2.22 |
| Mdh2 | 0.20 | -0.27 | -0.99 | -1.64 | -1.64 | 0.61 | -0.39 | 0.48 | 3.09 | 1.64 | 0.55 | 1.48 | -0.72 | 0.15 | 0.76 | -0.99 | -0.55 | 0.37 | -1.09 | -1.74 |
| Rab33a | -0.40 | -0.72 | 0.95 | -0.84 | -0.54 | 1.88 | 0.57 | 0.91 | 1.21 | 1.66 | 0.26 | 1.78 | 0.05 | 0.21 | 0.60 | 0.37 | -1.15 | -0.67 | -1.49 | -1.70 |
| Hr | -1.60 | -0.27 | -0.59 | -1.06 | -0.74 | 0.25 | 1.02 | 0.47 | 0.73 | 0.73 | 2.22 | 0.53 | 1.00 | 0.55 | -0.10 | 0.02 | -0.57 | -1.14 | -1.47 | -1.74 |
| Tmem170b | -0.63 | 0.14 | -1.04 | 0.25 | 0.07 | 1.80 | 0.72 | 1.63 | 1.87 | 0.10 | 0.14 | -0.25 | -0.78 | 0.74 | -0.46 | 0.37 | -0.58 | 0.91 | -0.46 | -1.15 |
| Dcaf12l1 | -0.25 | -0.28 | -1.05 | -1.21 | -0.10 | 0.84 | -1.25 | 1.64 | 1.19 | 1.85 | 0.62 | 0.18 | 0.07 | -0.62 | 0.93 | -0.53 | 0.21 | 0.44 | -1.63 | -1.31 |
| Fat4 | -1.66 | 0.28 | 0.10 | -0.51 | 0.74 | 1.50 | 1.23 | 1.21 | 0.82 | 0.87 | 0.04 | 0.89 | -0.33 | 0.04 | 1.03 | -0.31 | 0.72 | 1.13 | -1.95 | -2.64 |
| Ccdc62 | -0.78 | -0.18 | 0.87 | -0.35 | -0.07 | 1.52 | 0.51 | 0.74 | 1.47 | 1.88 | 0.90 | 1.32 | -0.68 | -1.71 | 0.68 | -0.29 | -0.34 | 0.15 | -0.97 | -0.08 |
| Hp1bp3 | 0.59 | 0.06 | -0.34 | -1.26 | -1.20 | 1.52 | -0.68 | 1.20 | 1.50 | 0.79 | 0.07 | 1.11 | 0.69 | 0.83 | 1.42 | 0.55 | 0.38 | 0.81 | -1.73 | -1.46 |
| Zbtb11os1 | 0.38 | -0.37 | 0.70 | -1.11 | 0.35 | 1.45 | 1.02 | -0.26 | 2.21 | 1.90 | -0.29 | 0.96 | -0.52 | -1.26 | 0.68 | 0.28 | -0.53 | -0.16 | -1.97 | 0.06 |
| Gramd4 | -0.18 | -0.67 | -0.90 | 0.20 | -0.59 | 0.54 | 0.94 | 1.39 | 1.70 | -0.40 | 0.31 | -1.53 | -1.45 | 0.05 | 0.62 | -1.51 | 0.16 | -1.58 | -1.50 | -0.53 |
| Rab11fp4 | -2.22 | 0.64 | 0.23 | 0.52 | -0.56 | 1.05 | 1.39 | 0.36 | 0.52 | 1.44 | 0.84 | 0.99 | -1.79 | -0.86 | 0.12 | 1.08 | -0.47 | 1.01 | -0.84 | -1.51 |
| Atxn1l | -0.06 | 0.61 | 0.06 | 0.18 | 0.45 | 1.76 | 2.06 | 0.81 | 0.88 | 1.77 | 0.60 | 0.27 | -0.82 | -0.15 | -0.74 | -0.60 | 0.52 | 0.34 | -0.78 | -0.29 |
| Ascc2 | 0.03 | 0.45 | 0.93 | -0.24 | 0.21 | 0.37 | 1.33 | 2.56 | 1.75 | 1.37 | 0.13 | 0.23 | -1.91 | 0.90 | 1.20 | -0.40 | -0.24 | -0.19 | 0.53 | -0.55 |
| Dll1 | -0.80 | -2.11 | -0.87 | -0.36 | 0.71 | 1.31 | 0.99 | -0.53 | 0.40 | 0.40 | 0.23 | 1.28 | 0.54 | -1.09 | 0.37 | 0.98 | -0.62 | -0.04 | -0.82 | -1.96 |
| Ccno | -0.71 | 0.25 | 0.86 | -1.32 | -1.06 | 2.00 | 0.79 | 0.92 | -0.05 | 0.31 | 0.06 | 1.16 | -1.51 | 0.45 | 0.92 | 0.08 | -0.16 | 1.08 | -0.85 | -0.34 |
| Herc3 | -2.76 | -0.69 | -0.47 | -0.85 | -0.35 | 1.01 | -0.97 | -0.23 | 0.93 | 0.00 | -0.34 | -1.98 | -0.22 | 0.84 | -0.21 | 0.56 | 0.18 | 0.77 | -2.51 | -0.88 |
| Ripk2 | -0.40 | -1.31 | -0.01 | 1.16 | -0.14 | 1.20 | 1.12 | 0.86 | 1.32 | 0.63 | -0.05 | 0.10 | 0.14 | 0.52 | 0.29 | 0.38 | -0.47 | 0.90 | -3.25 | -0.26 |
| Hdgfrp3 | -0.48 | 0.96 | 0.29 | -0.87 | 0.50 | 1.98 | 0.69 | 0.02 | 1.46 | 2.10 | 0.74 | -0.22 | 0.77 | 0.09 | 0.43 | -0.43 | -0.13 | 0.91 | -1.58 | -1.88 |
| Pgrmc1 | -0.84 | 0.33 | -0.92 | -0.23 | -0.29 | 1.46 | 0.59 | 1.46 | -0.43 | 0.70 | 1.02 | -0.25 | 0.36 | 0.59 | -0.46 | -0.87 | 1.27 | 0.70 | -1.69 | -2.07 |
| Fanca | 0.83 | -0.68 | -0.17 | -0.58 | -0.17 | 1.08 | 0.67 | 1.86 | 0.53 | 0.76 | -1.91 | 1.32 | 0.87 | 0.12 | -0.65 | 0.23 | 0.04 | 0.85 | -0.06 | -1.25 |
| Scamp5 | -0.71 | 0.97 | 0.90 | -0.21 | -0.47 | 1.60 | 1.24 | 1.52 | 0.32 | 1.42 | -0.33 | 0.69 | -0.65 | 0.98 | -0.22 | 0.06 | -0.41 | 0.11 | -2.01 | -1.30 |
| Wnt7a | 0.10 | -0.44 | 0.57 | -0.01 | -1.64 | 0.90 | 0.75 | 0.29 | 0.52 | 1.60 | 0.93 | 1.44 | -1.28 | -0.34 | -0.39 | -1.12 | 1.00 | 0.19 | -1.00 | -0.22 |
| Hnrnpd | 0.27 | 0.52 | -1.50 | -0.59 | 0.27 | 2.08 | 0.13 | 1.16 | 0.03 | 0.98 | -0.49 | -1.37 | 0.00 | 1.26 | 0.93 | -0.90 | 0.51 | 0.57 | -1.15 | -1.22 |
| Wnk3 | 0.66 | 0.28 | 1.57 | -0.39 | 0.49 | 1.28 | 2.09 | 1.50 | 1.57 | 1.57 | -0.50 | -0.18 | -1.74 | 0.20 | 0.03 | -0.95 | 0.63 | 0.17 | -0.53 | -0.60 |
| AU019559 | -2.14 | -0.31 | 0.17 | -0.56 | -0.20 | 0.54 | 0.50 | 0.84 | -0.01 | 0.46 | -0.63 | -1.00 | -1.69 | -0.06 | 0.74 | -1.41 | -0.27 | 0.48 | -1.19 | -1.63 |
| Capn6 | 0.58 | 0.37 | 0.59 | 0.10 | -0.86 | 1.40 | 0.34 | 1.28 | 1.57 | 1.55 | -0.32 | 1.12 | -1.63 | -0.04 | -0.28 | 0.12 | 0.43 | -1.80 | -2.54 | 0.04 |
| Zkscan16 | -0.25 | 0.20 | 0.67 | -0.01 | 0.53 | 1.40 | 1.21 | 1.02 | 1.42 | 1.40 | 0.51 | 0.42 | 0.00 | -0.19 | 0.83 | -0.68 | 0.59 | 0.83 | -2.53 | -2.22 |
| Smco4 | -0.26 | 1.28 | -0.70 | 0.91 | -0.65 | 1.70 | 1.24 | 0.67 | 1.27 | 0.93 | -2.04 | 0.66 | -2.89 | -0.20 | 0.90 | -0.44 | 0.01 | -0.06 | -1.49 | -0.37 |
| Cyp4x1 | -0.55 | 0.24 | -0.09 | -0.48 | -0.35 | 0.82 | 0.71 | 0.13 | 0.93 | 1.35 | 0.03 | 0.52 | 2.02 | 0.57 | 0.97 | -0.46 | 1.85 | 0.18 | -0.33 | -3.03 |
| lpo5 | 0.08 | 1.21 | -0.13 | -0.07 | 0.89 | 0.66 | 2.24 | 1.46 | 0.89 | 1.89 | 0.66 | 0.56 | 0.30 | 0.43 | -0.69 | -0.80 | 0.97 | 0.68 | -0.79 | 0.13 |
| Acvr2a | -0.98 | 0.88 | -0.33 | 0.13 | 0.51 | 1.71 | 0.96 | 0.84 | 0.99 | 0.85 | -0.46 | 0.78 | -0.84 | 0.38 | 0.48 | -0.60 | -0.59 | 0.51 | -2.10 | -1.22 |
| Strn4 | 0.78 | 1.36 | 0.23 | 1.10 | -0.26 | 1.53 | 1.52 | 1.27 | 0.96 | 2.97 | -0.11 | 0.44 | -0.84 | 0.11 | -0.39 | -0.98 | -0.67 | 0.31 | -1.35 | -2.55 |
| Dffb | -0.32 | 0.20 | -0.70 | -0.43 | -1.21 | -0.80 | -0.18 | 0.90 | 1.19 | 1.47 | -0.35 | 1.38 | 0.03 | 0.36 | 1.14 | -1.56 | 0.14 | 0.34 | -0.70 | -2.24 |
| Rab36 | 1.07 | 0.35 | 0.46 | -0.26 | 0.95 | 0.66 | 2.45 | 2.01 | 0.82 | 1.65 | 0.90 | -0.01 | -0.70 | 0.09 | 1.31 | -0.95 | -0.70 | -1.13 | -1.18 | -1.63 |
| Slc25a27 | -1.73 | -1.22 | 0.09 | -0.07 | 1.10 | -0.35 | 1.27 | 0.92 | 0.10 | 0.24 | 0.37 | 0.87 | -0.98 | 1.18 | 1.38 | -1.55 | 1.00 | -0.20 | 0.74 | -2.49 |
| Gm10523 | 0.13 | 0.39 | -0.96 | -0.40 | -0.39 | 1.20 | 1.01 | 1.51 | 0.41 | -0.37 | 0.19 | 0.17 | -0.39 | -0.66 | 1.50 | 0.12 | -0.95 | -1.48 | -1.93 | -0.35 |
| Ptprs | 0.75 | -0.06 | 0.24 | 0.36 | 0.51 | 1.95 | 1.45 | 1.35 | 1.04 | 0.97 | -0.40 | -0.06 | -0.21 | 0.02 | -0.36 | -2.03 | -0.06 | 0.00 | -1.16 | -0.77 |
| Tab3 | -0.10 | 1.67 | -0.62 | -0.20 | -0.09 | 1.55 | 0.76 | 0.83 | 0.51 | 1.89 | 0.70 | 1.90 | -0.38 | 1.54 | 1.98 | -0.64 | -0.13 | -1.75 | -1.79 | -1.79 |
| Astn1 | 0.64 | 0.72 | 0.68 | 0.72 | 0.64 | 1.94 | 0.67 | 1.53 | 2.05 | 1.99 | 0.02 | 0.83 | -1.01 | 0.01 | 0.19 | -1.32 | -0.41 | -0.60 | -2.31 | -1.60 |
| Zfp781 | 0.39 | -0.32 | 0.01 | 0.35 | -1.01 | 0.85 | 0.54 | 0.64 | 1.17 | 0.88 | -0.35 | -0.26 | -0.04 | 2.11 | 0.09 | -1.49 | 0.49 | -0.73 | -0.92 | -0.48 |
| Arnt2 | -1.07 | -0.14 | -0.10 | 0.06 | 0.17 | 0.67 | 0.64 | 0.45 | 0.91 | 0.89 | 0.57 | -0.28 | -0.10 | 0.09 | 0.77 | -0.10 | 0.42 | 0.98 | 0.48 | -0.86 |
| Rwdd2a | -0.07 | -0.13 | -0.38 | -0.76 | -1.29 | 0.35 | 0.01 | 0.03 | 1.22 | 0.30 | 1.10 | 0.71 | 1.18 | 0.11 | 0.05 | 0.45 | 0.87 | -1.10 | -2.06 | 0.71 |
| Resp18 | 0.31 | 0.31 | 0.06 | 0.67 | -0.39 | 1.47 | 1.31 | 0.89 | 0.17 | 1.52 | 0.69 | -0.22 | -0.48 | -0.48 | 0.44 | -0.04 | 0.54 | 0.02 | -1.66 | -1.32 |
| Ddx27 | -0.26 | 1.22 | -0.07 | 0.34 | -0.28 | 1.20 | 0.93 | 1.90 | 0.69 | 0.62 | -0.37 | 1.21 | -0.38 | -0.35 | 1.21 | -0.33 | 0.94 | 0.28 | -1.14 | -0.52 |
| Mef2d | -0.42 | -0.06 | 0.73 | -0.36 | 0.77 | 1.55 | 0.40 | 0.66 | 1.17 | 1.23 | 0.22 | -0.51 | -1.02 | -0.73 | 0.11 | -1.84 | -0.55 | -0.24 | -4.17 | -1.22 |
| Elfn2 | 0.78 | -0.53 | -0.20 | 0.20 | 0.90 | 1.41 | 1.99 | 0.34 | 1.12 | 0.62 | 0.15 | 0.40 | -0.69 | -0.96 | -0.27 | -2.33 | 1.07 | 0.50 | -1.83 | -0.72 |
| Pcbp2 | 1.38 | -0.07 | -0.22 | -0.54 | 0.58 | 0.61 | 0.97 | 1.67 | 1.25 | 0.97 | 0.16 | 0.10 | -0.48 | -0.22 | 0.72 | 0.34 | -1.32 | -0.17 | -2.35 | -1.26 |
| Frs2 | 0.69 | 0.17 | 0.61 | 1.09 | 0.18 | 1.61 | 1.32 | 0.71 | 2.06 | 1.39 | -0.17 | -1.24 | -1.24 | 0.54 | -0.42 | 0.55 | 1.56 | 1.42 | -0.80 | -1.00 |
| St6gal2 | -0.63 | 0.72 | 0.09 | 0.84 | 0.75 | 1.47 | 0.85 | 1.27 | 1.42 | 1.08 | 0.56 | -0.34 | -0.20 | 0.66 | -0.11 | -0.27 | 0.63 | 0.95 | -1.63 | -1.21 |
| Smarcd1 | 0.34 | -0.42 | 0.83 | 0.95 | 0.89 | 1.63 | 1.32 | 0.85 | 1.37 | 1.70 | 0.87 | -0.15 | -2.31 | 0.28 | -1.25 | -1.35 | 0.10 | 0.04 | -2.02 | 0.15 |
| Pi4k2b | 0.21 | -0.71 | -0.45 | -0.18 | 0.35 | 0.12 | 1.19 | 0.58 | 0.81 | 0.79 | 0.78 | -0.48 | -2.63 | 0.16 | 0.77 | 0.69 | 1.34 | -0.71 | -3.68 | 0.50 |
| Rapgef1 | 0.42 | 0.85 | 0.90 | -0.51 | 0.56 | 1.74 | 0.62 | 1.43 | 1.16 | 1.52 | -1.49 | 0.17 | 0.10 | 0.42 | 0.29 | -1.35 | 0.39 | 1.09 | -1.15 | -2.55 |
| Slitrk5 | 1.12 | -0.43 | 0.19 | 0.12 | 1.00 | 0.85 | 1.60 | 1.14 | 1.82 | 0.85 | 1.40 | -0.45 | 0.12 | 1.07 | 0.38 | -0.74 | -1.38 | -0.47 | -0.76 | -2.08 |
| lqca | -0.74 | 0.42 | 0.60 | 0.27 | -0.16 | 1.61 | 0.32 | 1.56 | 0.69 | 0.47 | -1.46 | -2.21 | -0.76 | -0.07 | 0.10 | 1.14 | 0.09 | -0.08 | -1.79 | -1.25 |
| Gm9899 | 0.71 | 0.54 | 1.20 | -0.63 | 0.48 | 1.94 | 0.95 | 1.34 | 1.03 | 1.29 | 0.50 | 0.12 | -1.16 | -2.14 | -0.67 | -1.43 | -0.24 | 1.10 | -1.80 | -1.05 |
| Pcdhb17 | -0.32 | 0.74 | -0.34 | 0.35 | 0.38 | 1.50 | 0.82 | 1.22 | 0.81 | 0.70 | -1.20 | 1.62 | -0.61 | 1.08 | -1.68 | -1.86 | -0.64 | 0.56 | -1.24 | -1.05 |
| Cul3 | 0.07 | 0.60 | 0.57 | -0.37 | -0.22 | 1.49 | 0.96 | 0.53 | 0.57 | 1.33 | 0.65 | -0.63 | 0.06 | 1.04 | -0.18 | 0.10 | 0.43 | 0.70 | 0.72 | -1.97 |
| Rbbp6 | 0.44 | 0.68 | 0.44 | 0.09 | -1.31 | 0.87 | 0.75 | 1.05 | 0.87 | 0.98 | 0.70 | 0.71 | 0.48 | -0.52 | 0.09 | 0.35 | 0.33 | 0. | | |

| | | | | | | | | | | | | | | | | | | | | |
|--------|------|-------|------|-------|-------|------|------|------|------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| Nsdhl | 0.51 | 0.62 | 0.40 | 0.58 | 0.73 | 1.54 | 0.59 | 1.20 | 1.64 | 1.30 | -0.45 | 0.24 | -0.03 | 0.24 | 0.10 | -1.49 | 0.48 | -0.31 | -2.43 | -2.89 |
| Mrps31 | 0.62 | -0.43 | 0.24 | -0.17 | -0.25 | 0.38 | 0.68 | 1.03 | 0.71 | 0.50 | -0.02 | 0.77 | 0.31 | 0.31 | -1.23 | 0.40 | 0.52 | -0.31 | 0.09 | -4.78 |
| Efnb2 | 0.14 | -0.17 | 0.10 | 0.49 | 0.24 | 0.85 | 0.58 | 1.05 | 0.30 | 1.24 | 0.24 | 1.17 | 0.28 | 0.32 | 0.61 | 0.51 | 0.69 | -0.23 | -1.81 | -1.65 |
| Scly | 1.11 | 0.51 | 0.49 | 0.43 | 0.95 | 1.26 | 0.90 | 1.68 | 1.38 | 1.44 | -0.79 | 0.25 | 0.03 | -0.31 | 0.19 | -0.44 | -1.89 | -0.73 | -1.17 | -2.61 |

Supplementary Table 2. List of genes exclusively downregulated in the hippocampus of P301S mice at 3 months, compared to 3-month-old WT mice.

| Gene symbol | WT_1_3M | WT_2_3M | WT_3_3M | WT_4_3M | WT_5_3M | Tau_1_3M | Tau_2_3M | Tau_3_3M | Tau_4_3M | Tau_5_3M | WT_1_9M | WT_2_9M | WT_3_9M | WT_4_9M | WT_5_9M | Tau_1_9M | Tau_2_9M | Tau_3_9M | Tau_4_9M | Tau_5_9M |
|-------------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|
| Sdf2l1 | 1.96 | 0.73 | 1.60 | 1.58 | 1.31 | -0.46 | -0.26 | 0.12 | -0.82 | -0.75 | -0.79 | 0.70 | -0.76 | -0.29 | -1.38 | -0.50 | -0.97 | -2.58 | -0.30 | 0.66 |
| Manf | 1.32 | 0.15 | 1.99 | 1.98 | 1.62 | -0.82 | 0.50 | -0.40 | -0.31 | -1.17 | -0.60 | 1.34 | -0.84 | -0.32 | -0.35 | -0.57 | -1.36 | -0.88 | 0.30 | -0.26 |
| Bok | 2.18 | 1.16 | 1.16 | 1.08 | 1.05 | -1.09 | 0.28 | -0.32 | -1.80 | 0.84 | -0.19 | 0.53 | 1.21 | -0.49 | -0.39 | -0.07 | -0.15 | -0.99 | -0.35 | 0.56 |
| Pdia4 | 1.14 | 1.03 | 1.84 | 0.60 | 0.46 | -1.14 | 0.58 | -0.67 | -1.09 | -0.92 | -0.89 | -0.61 | -0.83 | -0.71 | -0.71 | 1.52 | -1.35 | -1.44 | 0.70 | 0.24 |
| Ypel5 | 0.30 | 0.32 | -0.04 | 2.23 | 1.17 | -0.93 | 0.94 | -0.41 | -2.32 | -0.01 | -1.10 | 0.25 | -1.13 | 0.40 | -0.95 | -0.86 | 0.86 | -1.73 | 0.24 | 0.76 |
| Rasl12 | 1.10 | 1.21 | 1.04 | 1.24 | 0.45 | -0.89 | 1.13 | -0.17 | -0.56 | -1.15 | 0.86 | 0.44 | 0.35 | -0.07 | -0.54 | 0.09 | -1.36 | -0.17 | -0.80 | 0.62 |
| Ubash3b | 1.43 | -0.37 | 0.95 | 1.75 | 0.08 | -0.57 | -1.35 | -0.46 | 0.13 | -0.56 | 0.26 | -0.61 | 0.16 | -1.36 | -0.11 | -1.18 | -0.77 | 0.94 | 1.48 | 0.51 |
| Zfp983 | 0.74 | 0.76 | 0.38 | 0.54 | 1.06 | -1.20 | -0.35 | -2.19 | 1.20 | -0.60 | -0.95 | -1.15 | 0.18 | -2.61 | -0.13 | 0.53 | -0.81 | -0.20 | 0.25 | -0.14 |
| Ube2z | 0.73 | 2.01 | 0.08 | 2.17 | 1.21 | -0.44 | -0.11 | 1.40 | -0.74 | -0.55 | -0.12 | -1.62 | 1.02 | -0.18 | -0.21 | -0.41 | 0.04 | -1.80 | 0.81 | 0.91 |
| Capzb | 1.24 | 1.84 | 0.97 | 1.43 | 1.23 | -0.17 | 0.47 | 1.28 | -0.51 | -0.82 | -0.01 | 0.07 | -0.73 | -0.21 | -0.13 | 0.49 | 1.05 | -1.57 | -0.53 | 0.09 |
| Snx12 | 1.42 | 1.90 | 1.11 | 1.86 | 0.66 | -0.37 | 1.32 | 0.91 | -1.04 | -0.27 | 0.30 | -0.19 | 0.12 | -0.51 | 0.29 | 1.28 | -0.46 | 0.26 | 0.84 | -0.20 |
| Rbm28 | 0.56 | 0.93 | 1.26 | -0.10 | 0.16 | 0.82 | -0.79 | -0.46 | -1.25 | -1.79 | -0.97 | 0.21 | -0.90 | 0.60 | -0.79 | 0.04 | -0.29 | -1.17 | -1.36 | 0.49 |
| Faap24 | 1.42 | 1.05 | -0.07 | 1.20 | 0.78 | -0.94 | 0.74 | -0.62 | 0.00 | -1.09 | -2.03 | 0.95 | 0.21 | 1.26 | -1.45 | 0.28 | -0.76 | -0.28 | 0.56 | -0.37 |
| Scarb1 | 0.11 | 1.59 | 1.44 | 2.12 | 1.17 | 0.08 | 0.08 | -1.32 | 1.31 | 0.21 | 0.23 | -1.12 | -0.57 | -2.45 | -2.16 | 0.20 | -1.61 | -0.19 | -0.79 | -1.80 |
| Sema5b | 1.50 | 1.07 | -0.35 | 1.08 | 0.66 | 0.86 | -1.83 | 0.86 | -1.28 | -0.64 | -1.24 | -0.48 | -1.16 | -0.81 | -1.23 | -0.13 | -0.77 | 0.26 | 0.48 | 0.56 |
| Qsox1 | 1.11 | 1.14 | 0.73 | 0.18 | 0.77 | -0.31 | -0.06 | -1.44 | -0.35 | 0.16 | 0.10 | -0.35 | 0.26 | 0.57 | -0.57 | -1.82 | 1.04 | -0.55 | 0.83 | 1.21 |
| H2afv | 0.93 | 1.06 | 0.51 | 0.64 | 0.17 | -0.42 | 0.04 | -0.79 | -0.92 | -0.49 | -0.34 | -0.70 | 2.28 | -0.11 | -0.13 | -1.25 | 0.03 | -1.75 | 0.08 | 0.84 |
| Uap1 | -0.44 | 1.37 | 1.36 | 1.91 | 1.58 | -0.83 | 0.34 | 0.37 | 0.09 | -0.04 | 0.26 | 0.73 | -0.83 | -2.05 | -0.46 | 1.47 | 1.39 | -1.50 | 1.07 | -0.27 |
| Perp | 1.42 | 1.17 | 0.70 | 2.25 | 0.63 | -0.33 | -0.64 | -0.04 | 1.10 | 0.29 | -0.50 | -1.61 | 0.29 | -1.89 | 0.02 | -0.53 | 0.20 | -0.44 | -0.15 | -0.59 |
| Cox7c | 0.35 | -0.98 | 0.75 | 1.74 | 1.81 | -1.02 | -0.18 | -0.38 | 0.54 | -1.09 | 0.75 | -0.07 | -0.73 | -1.11 | 0.16 | -0.24 | 0.37 | 0.30 | 0.44 | 1.35 |
| Elf1 | 1.40 | 0.93 | 1.38 | 2.12 | 1.10 | 0.64 | -0.12 | 0.60 | 0.05 | -0.02 | 0.60 | -0.87 | 0.28 | 0.02 | 0.59 | -0.24 | -0.20 | -0.40 | 0.79 | 0.74 |
| Vti1b | 1.43 | 0.65 | -0.03 | 0.44 | 0.81 | -0.21 | -0.32 | -0.56 | -1.00 | -0.35 | -0.67 | -0.51 | -1.67 | 0.10 | -0.48 | -0.13 | -1.38 | -2.10 | -0.71 | -0.03 |
| Capn3 | -0.15 | 0.95 | -0.13 | 0.50 | 1.68 | -0.92 | -0.34 | 0.08 | -0.13 | -1.52 | -0.70 | 0.30 | -1.28 | -0.32 | -0.11 | -0.44 | 0.21 | -0.58 | -0.93 | 0.40 |
| Eed | 1.52 | 0.95 | 0.52 | 0.60 | -0.39 | 0.52 | -1.42 | -0.74 | -0.48 | -0.24 | 0.18 | 0.84 | -0.23 | -0.29 | -3.23 | 0.70 | -0.47 | -1.09 | 0.89 | -0.72 |
| Mns1 | 1.02 | 0.62 | 0.60 | 0.63 | 1.13 | -1.36 | 0.92 | -0.77 | -1.18 | 0.87 | -1.35 | 0.73 | 0.61 | -1.32 | 1.31 | -1.12 | 0.34 | -1.18 | 0.03 | 1.35 |
| Kcns3 | 0.99 | 1.51 | 1.05 | 0.86 | 1.70 | -0.20 | 0.90 | -0.43 | 0.27 | 0.08 | 0.58 | -2.30 | -0.39 | 1.19 | 0.84 | -1.15 | 1.05 | 0.43 | 0.62 | 0.46 |
| Ppp2r5a | 1.62 | 1.19 | 1.00 | 1.25 | 1.85 | 0.29 | 0.77 | 0.36 | -0.94 | 0.95 | -0.60 | -0.72 | -0.46 | -0.54 | -1.48 | 0.32 | -0.19 | -2.67 | 1.10 | 1.56 |
| Rngtt | 1.57 | 0.95 | 0.97 | 1.36 | 1.35 | -0.27 | 0.28 | 1.06 | -0.58 | 0.26 | -0.30 | 1.12 | 0.29 | 0.09 | -0.57 | -0.63 | -0.65 | -1.72 | -0.16 | 0.35 |
| Nudc | 1.34 | 2.24 | 1.66 | 1.39 | 1.19 | -0.65 | -0.18 | 1.00 | 2.01 | 0.17 | -1.24 | -0.35 | -1.26 | 0.01 | 0.33 | -0.46 | -0.59 | -1.06 | -1.04 | 0.77 |
| Mrpl52 | 1.29 | 1.34 | 0.90 | 0.74 | -1.09 | -1.31 | 0.34 | -0.99 | -0.49 | 0.27 | 0.13 | 1.11 | -1.09 | 0.76 | -1.27 | -0.30 | 0.51 | -0.68 | 0.08 | 0.53 |
| Sec24a | 0.73 | 0.31 | -0.26 | 0.80 | 0.64 | -1.49 | 0.16 | 0.13 | -1.65 | -0.28 | 0.64 | -1.27 | -0.99 | -1.04 | 0.21 | 0.23 | 0.70 | -0.76 | -0.43 | 0.58 |
| Apln | 1.51 | 1.44 | 0.15 | -0.14 | 0.63 | -0.40 | 0.15 | 0.19 | -0.52 | -1.09 | 0.77 | -1.92 | -0.90 | -1.34 | 0.85 | -1.26 | -0.75 | -1.61 | -1.01 | 0.59 |
| Yipf6 | 0.29 | 0.61 | 0.33 | 1.12 | 0.10 | -0.13 | -1.07 | 0.68 | -2.12 | -0.16 | -1.41 | -2.40 | 0.86 | 0.24 | -1.22 | -1.90 | 0.06 | -0.32 | -0.09 | 0.45 |
| Cnpy4 | 2.29 | 0.68 | -0.75 | 0.60 | 1.00 | -0.73 | -0.22 | 0.04 | -0.35 | -0.12 | -1.19 | 0.59 | -2.21 | 0.13 | 1.47 | 0.61 | 0.15 | -0.98 | 0.73 | -0.10 |
| Lman2 | 1.05 | 0.35 | 1.39 | 0.85 | 0.93 | -0.04 | -0.24 | -0.66 | 0.52 | -0.21 | -1.12 | -1.34 | 0.55 | 0.80 | -1.36 | -0.26 | -0.86 | -0.02 | 0.09 | 0.27 |
| Timmdc1 | 1.36 | 0.98 | 0.14 | 1.05 | 0.28 | -0.50 | 1.37 | -0.25 | -0.83 | -1.08 | 0.10 | -0.79 | -0.54 | -0.97 | -1.99 | -1.10 | 0.67 | -2.51 | -0.93 | -1.17 |
| Eif4ebp3 | 1.10 | -0.99 | -0.56 | 1.11 | 0.87 | 0.75 | -0.10 | -0.51 | 1.32 | 1.74 | 0.71 | -0.64 | -1.37 | 0.52 | -0.64 | 0.70 | 0.78 | -0.21 | 1.11 | 2.06 |
| St5 | 1.47 | 2.24 | 2.03 | 1.51 | 1.40 | 0.59 | 0.42 | 0.89 | 1.07 | 0.64 | -0.50 | -0.35 | -0.43 | -0.93 | -1.66 | 0.17 | 0.30 | -0.56 | -0.26 | -1.02 |
| Galt | 0.45 | 0.80 | 1.36 | 1.07 | 1.58 | -0.08 | 0.30 | 0.74 | -0.29 | -0.40 | -1.92 | -0.12 | -0.98 | 0.32 | 0.87 | 0.20 | 0.20 | -2.22 | -1.26 | -0.39 |
| Ryk | 0.52 | 1.48 | 0.88 | 1.43 | 1.84 | 0.78 | 0.42 | 0.76 | 0.30 | -1.07 | 0.05 | -1.01 | -1.10 | -0.41 | -1.50 | 0.61 | 0.33 | -1.18 | 0.57 | 1.33 |
| Vps18 | 0.95 | 1.14 | 1.39 | 0.13 | 0.11 | -0.20 | 0.59 | -0.07 | -0.54 | -1.00 | 0.48 | 0.78 | -2.24 | -2.58 | -0.08 | 0.07 | 0.01 | -0.92 | 1.16 | -0.91 |
| Slc25a26 | 1.84 | 0.55 | 0.57 | 1.12 | 0.69 | -0.34 | -0.15 | -0.83 | 0.13 | 1.04 | -0.80 | 0.01 | 0.59 | 0.44 | -3.96 | -0.27 | 0.47 | -1.50 | 0.07 | -0.69 |
| Rps6ka1 | 0.16 | 0.99 | 1.06 | 1.71 | 0.41 | -0.95 | -0.37 | 0.58 | -0.26 | 0.42 | 0.06 | -1.02 | 0.18 | -0.98 | -0.72 | 1.22 | -0.90 | 0.53 | 1.56 | 1.65 |
| Creb3l2 | 1.20 | 0.88 | 0.42 | 0.79 | 0.00 | -0.44 | 0.33 | -1.60 | 0.40 | -0.29 | -1.87 | -0.61 | -0.27 | -1.47 | -0.43 | 0.58 | -0.04 | -1.32 | 2.28 | 2.26 |
| Inhba | 1.28 | 0.32 | 0.36 | 1.25 | 0.64 | -0.79 | -0.13 | -0.12 | 0.25 | -0.22 | 0.56 | -0.05 | -0.60 | -0.34 | -0.59 | 1.07 | -1.99 | 0.28 | 0.70 | 0.54 |
| Slc16a9 | 0.83 | 0.50 | 0.36 | 0.98 | -0.38 | 0.35 | -0.60 | -0.02 | -0.85 | -1.34 | 0.32 | 0.61 | 0.12 | -0.23 | -0.22 | -1.01 | -1.02 | -0.77 | 0.19 | 0.30 |
| Jtb | 1.77 | 0.78 | 0.24 | 0.22 | -0.09 | -0.16 | -0.52 | -0.63 | -0.75 | 0.21 | -1.10 | -1.84 | -2.12 | 0.61 | -0.26 | 0.86 | 0.39 | 0.33 | 0.51 | 2.11 |
| Gcc1 | 2.30 | 0.52 | 2.31 | 0.42 | 1.57 | 1.06 | 0.55 | 0.33 | -0.18 | 0.62 | -0.10 | -0.34 | -1.75 | 0.25 | 1.00 | 0.06 | -0.21 | -0.03 | 2.08 | -1.17 |
| Eri1 | 1.38 | 0.78 | 1.16 | -0.18 | 1.30 | -0.34 | 0.18 | -0.30 | 0.02 | 0.13 | -0.35 | 0.16 | -1.27 | 0.48 | 0.92 | 1.49 | 0.35 | -0.81 | 0.14 | 1.33 |
| Lgals4 | 0.66 | 0.18 | 0.64 | 0.43 | 0.95 | 0.09 | -0.73 | -1.60 | 0.54 | -0.09 | 0.62 | -0.09 | -0.12 | -0.25 | -0.69 | -0.78 | 0.13 | -1.99 | 0.04 | 1.70 |
| Srxn1 | 2.23 | 0.95 | 1.42 | 1.31 | 1.21 | 0.55 | 1.33 | 0.16 | -0.13 | 0.59 | 0.55 | 1.23 | -1.06 | -0.91 | -0.95 | 0.07 | -2.24 | -0.43 | 0.18 | 0.94 |
| Zfp27 | 0.42 | -0.28 | 1.38 | 1.21 | 1.03 | -0.96 | 0.98 | -0.30 | -0.06 | -0.49 | 0.25 | 0.44 | -1.21 | -0.25 | 0.01 | -0.25 | 0.00 | 0.46 | 0.26 | 0.51 |
| Cenpp | 1.00 | 1.44 | 1.53 | 0.27 | 1.15 | -0.64 | 0.21 | 0.01 | 0.52 | 0.73 | 1.36 | -0.25 | -0.26 | 0.21 | 0.56 | 0.36 | -1.12 | -0.18 | 0.27 | 0.90 |
| Wbscr22 | 1.15 | 0.90 | 1.00 | 0.34 | 1.91 | -0.59 | 0.73 | 0.55 | -0.64 | 0.74 | -0.03 | -0.36 | -0.12 | -1.04 | -0.51 | -1.01 | -1.43 | -1.11 | 1.16 | 0.84 |
| Pycrl | 1.86 | 1.36 | 1.75 | 1.02 | 0.64 | -0.24 | 0.58 | 1.13 | 0.43 | 0.21 | -2.39 | -1.36 | -0.01 | -0.13 | -0.69 | -0.84 | 0.54 | 0.70 | -1.63 | 1.08 |
| Commf4 | 0.31 | 0.57 | 0.58 | 1.14 | 1.14 | -0.55 | 0.63 | -0.57 | -0.64 | 0.37 | -0.21 | 0.75 | -1.71 | -1.29 | 0.83 | -0.75 | 0.78 | -1.34 | -0.24 | 0.58 |
| Dhodh | 0.91 | 1.17 | 1.21 | 0.76 | 1.33 | -0.29 | 0.64 | 0.64 | -0.03 | 0.00 | 0.06 | 0.08 | 2.20 | 0.56 | 0.78 | -1.27 | -0.47 | -0.12 | -0.02 | 0.84 |
| Mdc1 | 0.18 | 1.60 | 0.71 | 1.57 | 0.22 | -0.14 | -0.56 | -0.17 | 0.36 | 0.40 | -0.67 | -1.15 | -0.19 | -2.80 | 0.28 | 0.14 | -0.10 | -0.42 | 1.52 | 1.14 |
| Usp19 | 1.97 | 0.50 | 2.39 | 1.75 | 1.64 | 0.60 | 1.34 | 0.57 | 0.81 | 0.57 | -0.23 | -0.45 | -1.35 | -0.27 | -2.39 | -1.49 | 0.20 | -1.00 | -0.55 | -0.15 |
| Fam101h | 1.44 | 1.08 | 1.01 | 1.01 | 1.13 | 0.43 | 0.28 | -0.84 | 1.32 | 0.20 | -0.35 | -0.84 | -0.22 | 0.38 | 1.10 | 0.25 | -1.05 | -2.86 | -0.97 | 0.64 |
| Ctla2a | 0.61 | 0.84 | -0.35 | 1.58 | 0.93 | -0.85 | 0.09 | 0.24 | 0.35 | -0.50 | -0.82 | 0.00 | -1.29 | 0.23 | 0.01 | 0.81 | 0.18 | -2.91 | 2.30 | 0.65 |
| Rnf145 | 2.09 | 1.94 | 2.01 | 1.82 | 0.54 | 1.23 | 0.95 | 1.27 | 0.31 | 0.41 | 0.37 | 0.14 | -0.65 | -0.85 | 0.10 | 0.80 | -0.32 | 0.05 | -0.12 | 0.11 |
| Phkg2 | 1.50 | 1.39 | 2.45 | 1.61 | 1.65 | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Yrdc | 0.32 | 0.43 | 0.62 | 0.30 | 0.42 | -0.63 | -0.16 | -0.63 | -0.05 | -0.06 | -1.68 | -0.24 | -0.49 | -0.54 | 0.03 | -0.35 | -0.32 | -1.07 | -2.32 | 0.43 |
| P1pp7 | 0.73 | 1.59 | 1.74 | 1.56 | 1.72 | 0.57 | 0.91 | 0.95 | 0.92 | 0.40 | -1.38 | -0.17 | -0.27 | -0.44 | -2.19 | -1.13 | 0.67 | 0.21 | 0.08 | 1.56 |
| Pomk | 1.85 | 1.80 | 1.84 | 1.22 | 1.45 | 0.93 | 0.70 | 1.21 | 0.87 | 0.99 | 0.40 | -0.28 | 0.40 | -1.20 | 0.63 | 0.64 | 0.22 | -0.10 | -0.87 | 0.31 |
| Cyp39a1 | 0.39 | 1.06 | 0.89 | 0.76 | 1.11 | -0.29 | -0.01 | 0.02 | 0.94 | 0.08 | -0.55 | -1.89 | -0.82 | 0.40 | 0.45 | 1.29 | -1.09 | -0.10 | 1.26 | 0.10 |
| Kcnn1 | 0.59 | 1.15 | 0.61 | 1.46 | 0.83 | 0.49 | -0.36 | 0.23 | 0.77 | 0.08 | -1.00 | 0.47 | -0.20 | -1.32 | -0.12 | -0.35 | 0.49 | -1.28 | -1.26 | -0.33 |
| Lamc1 | 1.18 | 0.98 | 1.18 | 1.62 | 1.49 | -0.08 | 0.80 | 0.98 | 0.38 | 1.00 | -1.25 | -1.67 | -1.05 | -1.31 | -0.66 | 0.00 | 0.93 | -0.26 | 0.88 | -0.48 |
| Hspb1 | 1.22 | 0.66 | 1.02 | 0.97 | 0.67 | 0.36 | 0.33 | 0.39 | 0.00 | 0.50 | -0.66 | 0.01 | -1.11 | -0.54 | -0.50 | 0.58 | -0.69 | -0.29 | 1.06 | 1.10 |
| Zfas1 | -0.68 | 0.82 | 0.18 | 0.70 | 0.92 | -1.81 | -1.02 | -0.90 | -3.66 | -1.50 | 0.34 | -0.76 | 0.70 | 0.27 | 0.22 | 0.28 | 0.68 | -0.23 | 1.77 | -0.03 |
| Hist3h2a | 0.97 | 0.78 | 0.26 | 1.82 | 0.75 | -1.82 | 0.40 | -1.24 | -2.22 | -0.74 | 0.52 | 0.04 | 0.08 | 0.66 | -0.44 | 0.43 | 0.28 | -1.74 | 0.26 | 0.71 |
| Dleu2 | 1.60 | 0.30 | 0.40 | 0.81 | 0.68 | -2.81 | 0.05 | -1.01 | -0.93 | -1.46 | -1.31 | 0.30 | 1.22 | 0.56 | 0.93 | 0.83 | -1.13 | -0.62 | 0.24 | 0.27 |
| Rpl17 | -1.67 | 0.42 | -1.58 | -0.10 | -1.76 | -1.38 | -1.22 | -1.17 | -2.04 | -1.99 | -0.25 | 0.39 | -0.88 | -0.40 | 0.64 | 1.17 | -0.19 | -0.15 | 1.46 | 1.20 |
| Bod1 | 0.96 | 0.87 | 0.74 | 1.22 | 0.62 | -1.52 | 1.23 | -0.53 | -3.23 | -0.34 | -0.63 | 0.96 | -0.72 | 0.25 | 0.33 | 0.05 | -0.02 | -0.31 | 0.09 | 0.43 |
| Pdia3 | 0.78 | -0.44 | 0.65 | 0.75 | 0.67 | -1.49 | 0.73 | -1.69 | -2.08 | -1.67 | -0.85 | 0.55 | -1.32 | -0.44 | -1.36 | 1.10 | -0.40 | -0.58 | 0.70 | 0.47 |
| Mrpl48 | 0.69 | 1.12 | 0.09 | -1.70 | -0.45 | -0.82 | -0.46 | -0.02 | 1.46 | 0.95 | 0.77 | 1.68 | -1.86 | 0.54 | 0.37 | 0.78 | 0.48 | -0.53 | 0.60 | 0.58 |
| Cx3cr1 | 0.48 | -0.08 | 0.61 | 0.23 | -0.62 | 0.34 | -1.93 | -3.18 | -3.19 | 0.11 | -1.31 | 0.65 | -1.17 | 0.07 | 0.70 | 0.65 | 0.17 | 0.46 | 0.84 | 1.12 |
| Cita | -0.47 | 1.43 | 0.89 | 1.53 | -0.41 | -1.36 | 0.09 | 0.16 | -0.98 | -3.23 | 0.05 | -0.65 | -0.28 | 0.10 | 0.43 | 1.53 | 1.02 | 0.24 | 1.23 | 1.50 |
| Cyct | 1.07 | -0.32 | 0.02 | 0.33 | 0.82 | -0.79 | 0.29 | -4.07 | -2.16 | 0.37 | 0.65 | 1.15 | 0.43 | 0.61 | -0.26 | -0.70 | -0.59 | 0.51 | 0.08 | -1.21 |
| Gja1 | 0.25 | 0.16 | -0.01 | -0.04 | 0.50 | -1.48 | -1.02 | -0.41 | -0.02 | -4.46 | 0.06 | 0.10 | -0.72 | 0.41 | 0.42 | -0.89 | -0.32 | -0.70 | 0.87 | 0.43 |
| Cct5 | 0.03 | 0.29 | 1.49 | 1.46 | 0.60 | -1.02 | 0.64 | 0.01 | -3.25 | -0.66 | 0.69 | 0.48 | -1.48 | 1.30 | 0.46 | 0.30 | 0.18 | -0.04 | -0.28 | 1.33 |
| Sparc1 | 0.50 | 0.82 | 2.14 | 0.56 | 0.34 | -0.11 | 0.10 | 0.64 | -2.16 | -2.21 | 0.82 | -0.91 | 0.39 | 0.45 | 0.90 | -1.73 | -0.04 | 1.35 | 0.90 | 0.75 |
| Sfmbt2 | 1.26 | 0.40 | 0.47 | 0.54 | 0.47 | -1.30 | -1.31 | -1.11 | -1.50 | 0.33 | -0.41 | -2.05 | 0.29 | -1.02 | 0.40 | 1.18 | 1.77 | -0.15 | -0.43 | -0.06 |
| Bri3 | -0.20 | 0.74 | 0.23 | 1.27 | -0.69 | -0.90 | -1.25 | -0.13 | -2.36 | -1.87 | -0.14 | 1.15 | -0.61 | 0.67 | -0.32 | 0.36 | -0.55 | 0.43 | 0.00 | 1.56 |
| Sec13 | -0.64 | 1.28 | 0.68 | 0.14 | 0.50 | -0.25 | -0.59 | -0.72 | -3.13 | -1.18 | -0.32 | -0.35 | -0.99 | -0.63 | 0.50 | 0.16 | -0.14 | 1.12 | 0.12 | 1.21 |
| Chordc1 | -0.27 | -0.43 | 0.24 | 0.40 | -0.47 | -2.45 | -0.74 | -1.73 | -1.97 | -1.41 | -0.04 | -0.13 | -0.19 | 0.50 | -0.20 | 0.22 | 0.54 | -0.83 | -0.03 | 0.50 |
| N4bp2 | -0.08 | 0.39 | 0.08 | 0.09 | 0.08 | -0.44 | -0.39 | -2.52 | -1.11 | -2.48 | -0.11 | 0.37 | -1.06 | 0.07 | 1.45 | -0.04 | -0.19 | -0.52 | 0.04 | 0.38 |
| Foxq1 | 0.66 | 1.30 | 0.88 | -0.18 | 0.40 | -0.04 | -0.15 | -0.99 | -1.45 | -1.81 | 0.06 | -0.03 | -1.00 | 0.67 | -0.32 | 0.37 | 0.11 | 0.12 | 0.21 | 0.24 |
| Rho | 0.77 | -0.89 | 1.26 | 1.03 | 0.36 | 0.35 | -0.72 | -2.31 | -1.47 | -0.75 | -1.71 | -0.71 | 0.29 | 0.34 | 0.09 | 1.76 | -0.95 | -1.11 | 0.76 | 0.19 |
| Mylip | 1.49 | 1.05 | -0.14 | 0.52 | 1.64 | 0.19 | 0.95 | -1.31 | -1.85 | -0.80 | 0.47 | 0.68 | -0.89 | 0.32 | 0.20 | 1.39 | -0.42 | -0.02 | 0.54 | 1.30 |
| Phospho | 0.84 | 0.89 | 0.46 | 0.48 | 0.00 | -0.45 | -0.82 | -1.26 | -1.86 | -0.26 | -0.48 | -0.09 | 1.27 | 0.26 | 0.79 | -1.01 | -0.78 | 2.52 | 0.90 | -0.35 |
| Pla2g4b | 0.41 | 0.63 | 0.63 | 0.82 | 0.61 | -0.16 | -1.44 | 0.67 | -3.41 | 0.16 | -0.24 | 0.08 | -0.81 | -1.75 | 0.05 | -0.07 | 0.35 | 0.69 | 0.25 | -0.05 |
| Dock8 | -0.11 | 0.06 | 0.38 | 0.63 | 1.59 | -0.77 | -0.59 | -2.61 | 0.28 | -0.94 | 0.08 | 0.33 | -0.68 | -0.38 | -0.37 | 0.45 | -0.66 | -0.17 | 2.03 | 0.76 |
| Eps15 | 0.95 | -0.10 | 0.67 | 0.89 | -0.21 | -0.02 | -0.72 | -1.97 | -1.58 | -0.58 | 1.29 | 0.52 | -2.48 | -0.61 | 0.37 | -0.57 | -0.93 | -0.31 | 2.16 | 1.19 |
| Fam46c | -0.47 | 0.51 | 0.05 | 0.28 | 0.07 | -1.57 | -0.46 | -0.15 | -0.31 | -4.06 | 0.47 | 0.39 | 0.40 | -0.89 | -0.52 | 1.44 | 0.41 | 0.64 | 1.72 | 1.69 |
| Mettl3 | 0.52 | -0.30 | 1.12 | -0.20 | 0.59 | -2.32 | -1.42 | -0.68 | -0.94 | 0.12 | 0.52 | 0.90 | -0.23 | 2.38 | -0.15 | -0.95 | -1.92 | -0.13 | -0.53 | |
| Hspa1b | 0.57 | -0.12 | 0.42 | 1.19 | 1.29 | -1.72 | 0.19 | -1.29 | -0.89 | 0.14 | 0.21 | 0.54 | -0.46 | 0.81 | -0.55 | 1.62 | 0.48 | -0.02 | 1.71 | 0.81 |
| Gm8273 | -0.49 | 1.32 | 0.35 | 0.13 | 0.87 | -0.61 | -1.59 | -1.76 | -0.19 | -0.57 | 0.22 | 0.92 | -0.65 | 0.09 | -0.09 | -0.56 | 0.37 | 0.17 | 0.15 | -0.22 |
| Bag1 | 0.11 | 1.25 | -0.04 | 1.18 | 0.61 | -1.61 | -0.49 | -0.25 | -0.68 | -0.63 | -1.28 | 0.65 | -0.84 | -0.65 | 0.83 | 3.23 | 1.05 | -0.06 | 0.98 | 0.43 |
| Cetn2 | -0.78 | 0.09 | 1.07 | 0.45 | -0.13 | -1.16 | -0.81 | -1.78 | -1.75 | -0.58 | 0.23 | 0.90 | 0.32 | 1.19 | 0.09 | 0.84 | 0.75 | -1.27 | -0.13 | 0.48 |
| Hint1 | 0.49 | -0.18 | 0.32 | -0.13 | 0.12 | -2.84 | -0.31 | -0.36 | -2.20 | -0.40 | 0.12 | 1.52 | -0.49 | 1.73 | 0.69 | 1.27 | -0.36 | -1.72 | 0.49 | 0.65 |
| Pom121 | 0.26 | -0.57 | 1.28 | 0.66 | 0.47 | -0.78 | -2.16 | -0.19 | -1.95 | 0.49 | 0.77 | -0.47 | -0.07 | -0.92 | 1.67 | 0.31 | 0.08 | 0.47 | 0.85 | -1.58 |
| Nhlrc2 | -0.19 | 0.11 | 0.68 | -0.11 | -1.31 | -2.56 | -0.38 | -0.61 | -3.18 | -0.75 | 0.80 | -0.76 | -0.67 | 0.49 | -0.50 | 1.33 | 0.19 | 0.59 | 0.77 | -0.34 |
| Lcn8 | 0.89 | 0.56 | 0.56 | -0.35 | 0.59 | 0.09 | 0.03 | -1.32 | 0.07 | -3.27 | 0.45 | -0.16 | -0.14 | 0.55 | -0.09 | 0.34 | -0.76 | -0.73 | -0.25 | 0.60 |
| Hspa1a | -0.21 | -0.92 | 0.43 | 1.19 | 1.47 | -1.88 | -0.85 | -1.47 | -0.91 | 0.41 | 0.59 | 0.59 | 0.08 | 0.42 | -0.54 | 1.38 | 0.35 | 1.48 | 1.84 | 0.86 |
| Ccd43 | -0.55 | 0.37 | -0.46 | 0.27 | 2.32 | -1.75 | 0.34 | -1.25 | -0.41 | -1.59 | -1.13 | 0.75 | 1.51 | 1.60 | 0.38 | 0.05 | -0.05 | -0.48 | 0.40 | -0.31 |
| Cyp26b1 | 0.41 | 0.81 | 0.70 | -0.02 | 0.44 | -1.18 | -1.01 | -1.32 | 0.57 | -1.29 | 1.87 | 0.03 | 0.19 | -0.27 | 0.34 | -1.06 | 0.44 | -1.37 | 0.22 | 1.31 |
| Socs4 | 0.08 | 0.00 | 0.32 | 0.27 | 0.51 | -2.01 | -0.40 | -2.94 | -0.08 | 0.01 | 0.42 | -3.93 | 0.97 | 0.50 | 0.22 | 0.29 | 0.56 | 0.40 | 0.88 | 0.41 |
| Ebf3 | -0.03 | 0.82 | 0.40 | -0.18 | 0.80 | 0.53 | -2.13 | -2.19 | 0.44 | -1.37 | 0.98 | -0.02 | 0.76 | 0.64 | 0.44 | 0.14 | -0.37 | -1.12 | 1.08 | 1.05 |
| Faap20 | 0.19 | 0.21 | 1.07 | 0.17 | 0.48 | -1.13 | 0.03 | -0.25 | -1.62 | -1.40 | 1.52 | -0.91 | -0.03 | -0.68 | -0.40 | 0.12 | -1.41 | -0.83 | 0.36 | 0.80 |
| Idnk | 1.01 | 0.27 | 1.29 | -0.52 | -0.03 | -1.77 | -0.08 | 0.16 | -1.41 | -1.35 | -0.15 | -0.20 | 0.67 | 1.62 | 0.95 | 0.68 | -1.05 | -1.38 | 1.27 | 0.43 |
| Msi3 | 0.55 | 0.90 | 1.12 | 0.70 | 0.94 | -2.31 | -0.35 | 0.84 | -0.36 | -0.04 | -0.46 | 0.29 | 1.03 | 0.74 | 0.07 | 0.83 | 0.48 | -1.06 | 0.93 | -0.15 |
| Tom7 | 0.51 | 0.69 | 0.75 | 0.23 | -0.80 | -1.51 | -0.33 | -1.71 | -0.61 | -0.87 | -0.48 | 0.46 | -0.74 | 0.20 | 0.62 | 1.26 | 0.50 | 0.20 | -0.55 | 0.86 |
| Yae1d1 | -0.03 | 0.34 | -1.21 | 0.46 | -0.22 | -1.15 | -2.39 | -0.62 | -1.66 | -1.25 | 0.41 | -2.89 | 1.37 | 1.62 | 0.98 | -0.06 | -0.28 | 0.41 | -0.18 | -0.19 |
| Ccdc73 | -0.24 | 1.13 | -0.52 | -0.02 | 0.48 | 0.31 | -3.45 | -0.91 | -1.05 | -0.48 | 0.39 | -0.05 | 0.05 | 0.41 | 1.18 | -1.07 | 0.64 | -1.26 | 0.81 | -0.31 |
| Zfp958 | -0.24 | 0.62 | 0.11 | 0.71 | 0.43 | 0.26 | 0.48 | -2.07 | -0.98 | -2.39 | 0.59 | -0.05 | 0.90 | 0.99 | 0.85 | 2.29 | 0.09 | -0.36 | 1.35 | -0.72 |
| Hspe1 | 0.84 | 0.72 | 1.15 | 0.63 | 0.45 | -0.10 | 0.23 | 0.23 | -2.05 | -0.85 | -0.77 | 0.19 | -0.67 | -0.22 | -0.28 | 1.03 | 1.05 | -0.88 | 1.02 | 2.14 |
| Pik3cg | 1.23 | -0.20 | -0.30 | 0.11 | -1.63 | -1.12 | -2.38 | -2.11 | -0.67 | -0.80 | -0.44 | 0.16 | -0.19 | -1.08 | -0.09 | -0.24 | 0.01 | -0.66 | 1.52 | 1.47 |
| Ccdc191 | 0.05 | 0.87 | 0.48 | -0.68 | -0.71 | -1.97 | -2.54 | -0.36 | 0.34 | -1.72 | -0.27 | -0.47 | 0.48 | 0.46 | -0.49 | 0.94 | -1.96 | 0.12 | -0.21 | -1.72 |
| Ythdc1 | 0.01 | -0.36 | -0.46 | 1.89 | 1.22 | -1.07 | -0.34 | -0.53 | -1.19 | -0.80 | -1.07 | -2.22 | 1.66 | 0.53 | 0.80 | 0.08 | 0.09 | 1.09 | 0.48 | 1.03 |
| Rpl29 | 1.58 | 1.34 | -1.16 | 0.73 | 0.84 | -1.16 | 0.35 | 0.34 | -0.63 | -1.65 | -1.11 | 0.63 | 0.40 | 0.70 | 0.85 | 0.02 | -0.23 | 0.79 | 0.87 | 1.31 |
| Zwint | -0.62 | -0.25 | 0.06 | 0.60 | 0.66 | -1.07 | -0.80 | 0.29 | -0.69 | -3.34 | -2.01 | 0.86 | 0.61 | 0.40 | 0.64 | 0.75 | 0.70 | 0.68 | 0.33 | 0.46 |
| Pigu | 0.45 | 1.10 | 0.82 | 1.06 | 1.31 | 1.29 | 0.16 | 0.12 | -1.38 | -1.52 | -1.10 | 1.58 | 0.45 | 0.25 | 0.38 | 0.37 | 0.74 | 0.27 | 0.56 | 1.13 |
| Smad1 | 0.57 | 0.50 | -0.29 | 0.02 | -0.09 | 0.28 | -1.86 | -1.86 | -1.03 | -0.81 | -1.35 | 0.82 | -0.61 | -1.83 | 0.58 | 0.42 | 0.52 | 0.54 | 1.88 | 1.92 |
| Rint1 | 0.37 | 0.31 | 0.15 | -0.77 | 0.74 | -2.09 | -0.64 | -0.97 | -0.96 | -0.49 | 1.22 | -0.59 | 1.14 | -0.01 | 0.44 | -1.31 | -1.22 | -0.30 | 0.36 | 0.57 |
| Fam58b | 0.64 | 0.23 | 0.76 | -0.36 | 1.45 | 0.44 | -1.04 | -1.73 | -0.77 | -0.10 | 0.21 | 1.13 | 1.06 | 0.47 | 0.61 | -0.10 | 0.77 | -0.69 | -0.08 | 1.15 |
| O | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-------|-------|
| Golm1 | 0.21 | -0.15 | 0.57 | 0.34 | 1.06 | -1.24 | -0.83 | -0.53 | -0.37 | -0.37 | -0.41 | 1.34 | -0.62 | -0.22 | -0.80 | 0.17 | -0.11 | -0.52 | 1.79 | 1.27 |
| Sec61b | -0.58 | 0.69 | -0.16 | 0.84 | -0.50 | -0.89 | 0.07 | -1.13 | -2.09 | -0.99 | -0.73 | 0.26 | 0.59 | -0.54 | -0.10 | 1.32 | 1.14 | 0.84 | 1.39 | 1.69 |
| Fuca1 | -0.89 | 0.59 | 0.46 | 0.52 | 0.17 | -1.36 | -1.05 | 0.03 | -0.65 | -1.42 | 0.35 | 0.74 | 0.29 | -0.51 | -1.07 | 1.51 | 0.78 | 0.46 | 2.55 | 0.61 |
| Pdss1 | 0.62 | 0.07 | 1.14 | 0.48 | -0.77 | 0.34 | -1.34 | -0.41 | -0.19 | -2.16 | 0.90 | -0.75 | -1.21 | 1.30 | 0.04 | -0.24 | -0.97 | 1.10 | -0.91 | 0.85 |
| Zswim7 | 0.36 | 0.66 | -0.28 | 1.44 | -0.02 | -1.00 | -0.98 | -0.30 | -0.76 | -0.05 | 1.45 | 0.38 | -1.05 | 0.17 | 2.15 | 0.83 | -0.64 | -0.07 | -0.30 | -0.26 |
| Diaph3 | 0.04 | 1.02 | 0.02 | 0.46 | 0.94 | -1.59 | 0.45 | -0.78 | -0.67 | -0.14 | 0.65 | -0.61 | -0.52 | 0.79 | -0.09 | 0.15 | 0.41 | 0.44 | 1.15 | 0.65 |
| Chd8 | -0.07 | 0.12 | 0.48 | 1.67 | 0.31 | -0.38 | -0.35 | -1.30 | -1.18 | 0.55 | 0.55 | -1.65 | 1.26 | -0.26 | 1.37 | -1.57 | 1.15 | 0.25 | 0.81 | 0.40 |
| Pigr | 0.46 | 0.13 | -0.50 | 1.29 | 0.30 | 0.21 | -0.11 | -1.61 | -1.74 | -0.24 | 0.69 | 0.15 | 0.02 | -0.60 | 0.24 | 0.65 | 1.51 | -2.24 | 0.45 | -1.27 |
| Aven | -0.39 | 0.31 | 0.85 | 1.24 | 0.29 | -0.93 | 0.09 | -0.27 | -0.83 | -0.90 | 0.71 | 0.26 | -0.56 | 1.70 | 1.21 | 0.79 | -0.21 | 0.80 | 0.20 | -0.13 |
| Mrrf | 0.75 | -0.26 | -0.50 | 0.19 | 1.40 | -0.02 | -0.41 | -0.75 | -0.98 | -1.35 | -0.95 | -0.72 | 1.11 | 0.16 | 2.06 | -0.84 | -0.39 | -1.26 | 0.55 | -0.69 |
| Zfp110 | -0.68 | 0.95 | 1.13 | 1.41 | 0.37 | -0.95 | -0.83 | -0.13 | -0.72 | 0.75 | 0.78 | 0.60 | 1.92 | 0.52 | 1.14 | 2.20 | -1.66 | 0.62 | 0.91 | 0.08 |
| Dubr | 1.41 | -0.57 | 0.92 | 0.37 | 0.33 | -0.89 | -1.37 | -0.75 | 0.56 | -0.11 | 0.41 | -0.26 | 0.07 | 1.14 | -1.26 | 0.34 | -0.72 | -0.01 | 0.41 | 0.92 |
| Tial1 | -0.88 | 0.30 | 0.75 | -0.29 | 0.71 | -1.30 | -0.44 | -1.14 | -1.08 | -0.46 | 0.03 | -0.18 | -0.95 | 1.62 | 2.00 | 0.31 | 1.20 | -0.15 | 0.39 | 0.78 |
| Lpar6 | 0.61 | -0.08 | -0.55 | -0.72 | -0.36 | -2.08 | -0.45 | -0.35 | -2.02 | -1.19 | -0.52 | 0.29 | 0.39 | -1.41 | 0.52 | 0.07 | 1.17 | -0.76 | -0.17 | 0.32 |
| Mageh1 | -0.42 | 1.03 | 0.25 | 0.07 | -0.55 | -0.95 | -0.42 | -0.04 | -1.41 | -1.69 | 0.27 | 0.43 | 1.31 | -0.70 | 0.86 | -0.65 | 0.41 | -2.22 | -0.09 | 1.13 |
| Pinx1 | 0.22 | -0.05 | 0.08 | 0.81 | 1.26 | 0.02 | -0.98 | -1.33 | -0.72 | 0.44 | 0.26 | -0.55 | 0.42 | 1.36 | 1.31 | 0.32 | 0.75 | -0.99 | 0.46 | -0.11 |
| Slc25a17 | -0.55 | 0.49 | 1.52 | -0.28 | -0.13 | -1.02 | -0.82 | -0.58 | -0.33 | -1.07 | 0.56 | -0.73 | 0.92 | 0.49 | -1.28 | 0.97 | 1.09 | -1.24 | -0.66 | 0.09 |
| Osgep | -0.10 | 0.44 | 0.08 | 0.23 | -0.57 | -0.60 | 0.09 | -2.08 | -0.93 | -1.23 | 0.37 | 0.93 | -0.70 | 0.41 | 0.71 | 0.06 | 0.23 | -1.29 | 0.27 | 1.63 |
| Mok | 0.67 | -1.04 | -0.25 | 0.66 | 1.41 | -1.03 | -0.65 | -0.03 | -1.04 | -0.56 | 0.18 | 1.88 | -0.59 | 0.66 | 0.97 | -1.50 | 0.55 | -0.17 | 0.48 | 0.62 |
| Ttc32 | 0.33 | 1.76 | 0.55 | 0.55 | -0.05 | -0.87 | -0.55 | -0.29 | 0.30 | -0.18 | -0.36 | 1.37 | -0.07 | 0.98 | -0.82 | 0.16 | -1.55 | -0.19 | 1.66 | 1.22 |
| Cacna2d | 0.50 | 0.78 | 0.52 | 0.61 | 0.30 | -0.96 | 0.61 | -1.10 | -1.00 | 0.46 | 1.60 | -0.04 | 0.48 | -0.59 | -0.57 | -1.10 | 0.14 | 0.64 | 0.74 | 1.19 |
| Ahsa2 | -0.33 | 0.88 | 0.99 | -0.61 | 0.86 | -0.49 | -0.92 | -0.23 | -1.43 | 0.18 | -0.25 | 0.62 | -0.10 | 0.66 | -0.08 | 0.16 | 0.93 | -1.42 | 0.49 | 0.79 |
| D10Wsu | 0.61 | -0.01 | -0.84 | -0.33 | 0.31 | -1.16 | 0.20 | -1.60 | -1.19 | -1.15 | 1.06 | -2.55 | 0.01 | -0.13 | 0.33 | -0.05 | 1.17 | 0.09 | 0.55 | -2.60 |
| Rpl10 | -0.04 | -0.21 | 0.61 | 0.00 | -1.15 | -1.02 | -1.02 | -1.36 | -0.48 | -1.36 | -0.78 | -0.35 | -0.29 | -0.11 | -0.04 | 1.32 | -0.13 | -0.13 | 1.94 | 2.76 |
| Cnn3 | 0.18 | 0.16 | 0.46 | 0.91 | 1.25 | -0.89 | 0.15 | -0.34 | -0.07 | -0.31 | 0.35 | -0.93 | 0.34 | 0.11 | 0.61 | 0.57 | -0.02 | -0.97 | 2.02 | 2.24 |
| Gm6607 | -0.01 | -0.10 | 0.32 | 0.51 | 0.88 | -0.07 | -0.24 | 0.01 | -1.20 | -1.27 | 0.25 | 0.71 | 0.74 | 0.73 | -0.23 | -0.13 | -0.54 | 0.04 | 0.23 | -0.44 |
| Aph1b | 0.40 | -0.09 | 0.69 | 0.62 | -0.57 | -0.30 | -0.56 | -0.05 | -1.10 | -1.23 | -3.07 | 0.95 | 0.58 | -0.01 | 0.73 | -0.25 | 0.99 | -0.08 | 0.64 | -1.43 |
| Oraov1 | -0.10 | -1.01 | -0.70 | 0.41 | 0.58 | -1.21 | -0.76 | -0.92 | -0.91 | -1.29 | -0.60 | 1.38 | 0.08 | -1.04 | -0.61 | 0.76 | -0.22 | -0.27 | 0.51 | 2.55 |
| Birc3 | 0.31 | 0.57 | 0.52 | 0.39 | 0.28 | -0.33 | -0.46 | -0.42 | -0.31 | -0.70 | -0.06 | -0.20 | -0.97 | -0.24 | -0.14 | 0.43 | 0.53 | 0.45 | 2.36 | 1.32 |
| Fam107a | 0.79 | -0.74 | 0.02 | 0.47 | -0.15 | -1.11 | -0.42 | -0.58 | -0.36 | -1.40 | -0.66 | 0.61 | 0.52 | -0.50 | -0.56 | -0.38 | -0.96 | -0.32 | 1.58 | 1.63 |
| Frem2 | 0.95 | -0.04 | 0.43 | 0.47 | 0.00 | -1.38 | -0.19 | 0.24 | -0.79 | -0.31 | -0.20 | -1.05 | 0.35 | -1.40 | 0.70 | 1.26 | 1.41 | -0.30 | 2.56 | 1.22 |
| Tcf7l1 | 0.85 | 0.15 | 0.70 | 1.11 | -0.01 | -0.35 | 0.16 | -1.03 | -0.44 | 0.24 | -0.36 | -1.01 | 0.00 | 0.35 | 0.03 | 0.94 | 0.32 | 0.63 | 1.81 | 2.17 |
| Rps3 | 1.32 | 0.89 | -0.10 | 1.27 | 0.10 | 0.30 | -0.16 | -0.27 | -0.53 | 0.01 | 1.04 | 0.52 | -0.99 | 1.32 | 0.22 | 1.41 | 0.30 | 0.19 | 0.30 | 1.02 |
| Parp14 | -0.06 | 0.12 | -0.03 | 0.34 | 0.13 | -0.97 | -1.81 | 0.00 | -0.76 | -0.07 | -0.91 | 0.33 | 0.25 | 0.20 | 0.22 | 1.41 | 0.30 | 0.86 | 2.21 | 2.01 |
| Pex11a | -0.16 | 0.29 | -0.64 | 0.15 | -0.40 | -0.71 | -0.09 | -1.12 | -1.93 | -0.99 | 0.28 | 1.00 | -0.88 | -1.03 | -1.55 | 0.09 | -0.09 | 0.46 | -1.29 | 1.06 |
| Slc7a6os | 0.36 | 0.82 | 0.66 | 0.03 | 1.16 | 0.02 | -0.05 | -0.71 | -0.79 | 0.55 | 1.07 | 1.04 | -0.97 | 0.21 | 0.36 | 0.98 | 0.00 | 1.15 | 1.32 | 0.35 |
| Arl4c | -0.68 | -0.48 | -0.30 | -0.48 | 0.07 | -0.97 | -1.18 | -1.28 | -1.69 | -0.71 | 0.43 | 0.15 | -0.18 | 0.25 | -1.92 | 1.05 | -0.19 | -1.71 | 1.01 | 1.33 |
| Hist1h2b | -0.28 | 0.12 | -0.40 | -0.22 | -0.18 | -0.92 | -0.28 | -0.80 | -1.40 | -0.74 | -1.02 | -0.33 | -0.03 | -0.98 | -1.02 | 0.82 | -0.05 | -0.66 | 1.26 | 2.09 |
| Fam26e | 0.23 | 0.34 | 1.51 | 1.05 | 1.15 | -0.72 | -0.99 | -1.21 | -1.08 | -1.41 | 1.57 | 0.78 | 1.29 | 0.27 | -1.35 | -0.56 | 0.34 | -0.79 | 0.48 | -2.57 |
| Hspa5 | 0.79 | 0.50 | 1.05 | 1.52 | 1.18 | -1.17 | 0.49 | -1.22 | -1.02 | -1.30 | -0.53 | 0.58 | -0.22 | 0.02 | -0.75 | -0.42 | -0.34 | -1.10 | -0.25 | -1.43 |
| Cdc25a | 2.05 | 0.47 | 0.02 | 0.97 | 1.83 | -0.40 | -0.77 | 0.65 | -0.75 | -1.83 | -0.15 | 0.36 | 0.96 | 0.38 | -0.56 | -1.14 | 0.39 | -1.29 | 0.15 | -1.67 |
| Ppa1 | 1.12 | 1.15 | 1.18 | 1.64 | 1.13 | -0.15 | -1.90 | 0.61 | 0.47 | -1.21 | -1.08 | 0.39 | 0.14 | 0.87 | 0.17 | 0.82 | -0.44 | 0.28 | -0.20 | -0.24 |
| Foxd1 | 1.00 | 2.32 | -0.07 | 1.48 | 1.57 | -1.40 | 0.28 | -0.31 | 0.33 | -0.83 | 0.68 | 1.34 | 0.43 | -0.18 | 0.22 | -0.65 | 0.54 | 0.81 | -1.45 | -0.74 |
| Htra1 | 0.86 | 0.75 | 1.41 | 0.79 | 1.60 | -1.39 | 0.07 | 0.43 | -0.86 | -0.90 | -1.40 | 1.26 | -0.62 | 1.18 | 0.33 | -0.89 | -0.74 | -1.08 | -0.82 | -0.55 |
| Hsph1 | 1.41 | -0.36 | 1.50 | 1.88 | 1.67 | -1.07 | 0.60 | 0.51 | -1.87 | 0.08 | -0.41 | 0.87 | 0.31 | 0.76 | -0.51 | 0.95 | -0.61 | -0.42 | -0.29 | -0.13 |
| Kcnc1 | 0.24 | -1.27 | -0.94 | -0.41 | -0.40 | -0.16 | -1.20 | 0.06 | 0.24 | 0.20 | 0.22 | 0.53 | -0.61 | 0.51 | 1.06 | -1.06 | 0.32 | 0.73 | -1.54 | -2.32 |
| Wdr60 | 0.25 | 0.49 | 0.38 | 0.86 | 0.65 | 0.44 | -1.51 | -0.60 | -2.34 | -0.93 | -0.98 | 0.89 | 0.10 | -0.68 | 0.30 | -0.63 | -1.18 | 0.96 | -0.66 | -0.53 |
| Ap3s2 | 0.78 | 0.57 | 0.56 | 0.54 | 0.43 | 0.68 | -2.56 | -3.28 | 0.37 | 0.18 | 0.86 | 0.49 | -0.15 | -0.29 | -0.07 | -0.08 | -3.08 | 0.88 | -0.52 | -0.37 |
| Rpusd2 | 0.82 | 0.58 | 0.88 | 0.71 | 0.80 | -2.09 | -1.19 | 0.33 | -0.76 | 0.02 | 0.35 | 1.10 | -0.40 | 0.95 | -0.57 | 0.58 | 0.43 | 0.16 | -1.20 | -0.70 |
| Gopc | 1.42 | 0.99 | 0.91 | 0.97 | 0.81 | 0.31 | 0.42 | -0.22 | -2.76 | 0.03 | 0.05 | 1.41 | 0.02 | 0.29 | 0.57 | -1.11 | 1.66 | 0.22 | 0.16 | -2.34 |
| Hnrnpm | -0.12 | 1.15 | 2.31 | 1.26 | 2.21 | -0.16 | 1.21 | 1.26 | -1.68 | -1.10 | 0.27 | -0.39 | 0.79 | -0.71 | -0.60 | -1.39 | -1.19 | -0.34 | -1.56 | -0.15 |
| Galnt11 | 1.42 | 0.31 | 2.17 | -0.45 | 0.94 | -1.20 | -0.68 | 0.05 | -0.64 | -0.41 | 0.29 | -0.25 | 0.05 | 2.29 | -0.24 | -0.85 | 0.50 | 1.55 | -0.86 | 0.53 |
| Gm3740 | 1.10 | 1.56 | -0.25 | 0.84 | 0.99 | 0.64 | -0.43 | -2.35 | -0.47 | -0.37 | 0.77 | 0.16 | 0.19 | -1.01 | -0.44 | -0.44 | 0.44 | 0.84 | -0.22 | -0.76 |
| Suv39h1 | 1.62 | 0.88 | 0.41 | 0.29 | 0.51 | 0.02 | -0.42 | -3.24 | 0.04 | 0.19 | -0.33 | -0.64 | 0.43 | -1.23 | 0.76 | -0.91 | 0.34 | -0.39 | 0.23 | -1.21 |
| Mrpl44 | 0.96 | 1.64 | 1.52 | 0.51 | -0.32 | -1.17 | -0.48 | 0.65 | -0.84 | -0.89 | -0.29 | 1.44 | -1.52 | -1.42 | 0.91 | 1.34 | 0.56 | 0.72 | -0.66 | 0.02 |
| Cys1 | 1.48 | -0.92 | 0.33 | 1.55 | 0.95 | -0.86 | -0.41 | 0.72 | -2.20 | -0.87 | -0.12 | -0.19 | 0.07 | 0.20 | 0.00 | -0.17 | 0.68 | -0.63 | -0.06 | -2.17 |
| Mtg2 | 2.23 | 1.03 | 0.93 | 1.12 | 2.24 | -0.81 | 0.01 | 0.45 | 0.52 | 0.37 | -0.99 | 0.02 | -2.12 | -0.77 | 0.55 | -0.75 | -0.43 | 0.41 | -1.52 | -0.19 |
| Sft2d3 | 1.43 | 1.61 | 2.30 | -0.10 | 0.28 | 0.02 | -0.75 | -0.48 | 0.01 | -0.17 | -1.60 | 1.01 | 0.37 | -0.10 | -1.55 | -0.37 | -0.64 | 0.12 | -1.03 | 0.03 |
| Gm4926 | 0.92 | 1.55 | 0.10 | -0.32 | 0.79 | -1.95 | -1.76 | 0.97 | -0.38 | -0.69 | -0.08 | 0.28 | 0.09 | 0.34 | 0.74 | 0.01 | 1.32 | 0.10 | -1.89 | -1.17 |
| Wdr74 | 0.90 | 1.81 | 1.58 | 0.04 | 0.41 | 1.06 | -1.97 | -0.04 | -0.84 | -0.18 | -0.43 | -0.30 | -0.31 | -0.80 | 0.32 | 0.52 | 0.88 | 1.23 | -1.37 | 0.20 |
| Sycp2l | 0.67 | 0.72 | 0.70 | 0.93 | 0.98 | 0.76 | -1.97 | 0.69 | 0.06 | -2.19 | 0.71 | 0.82 | -0.84 | 0.40 | -0.45 | 0.55 | 0.42 | 0.53 | -0.60 | -1.01 |
| Slc35c2 | 1.93 | 1.74 | 1.72 | 1.93 | 0.77 | -1.36 | 1.87 | 1.05 | -0.39 | 0.31 | -0.96 | 0.68 | 0.45 | -0.65 | -0.67 | -0.13 | 0.12 | 0.16 | -1.77 | -1.04 |
| Cx3c1 | 0.18 | 0.50 | 1.72 | 1.68 | -0.20 | -1.16 | -1.24 | 0.75 | -1.33 | 0.33 | 0.09 | 0.23 | 0.31 | -0.55 | -0.43 | -0.18 | 0.06 | 0.42 | -2.94 | -0.57 |
| AU02102 | 2.19 | -0.40 | 1.30 | 1.47 | 1.64 | 0.07 | -0.92 | 0.54 | -1.00 | 0.99 | 1.24 | 0.21 | -1.15 | -0.42 | 0.27 | -0.56 | 0.74 | -0.56</ | | |

| | | | | | | | | | | | | | | | | | | | | |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-------|
| Kif26b | 0.90 | -0.18 | 1.22 | 0.64 | 1.22 | 0.31 | -2.08 | 0.58 | -0.04 | -0.65 | -0.29 | 1.26 | -0.82 | -1.12 | 0.94 | -1.64 | 0.74 | -0.30 | -1.51 | -1.04 |
| Magef1 | 0.90 | 0.05 | 1.50 | 1.66 | 0.33 | -0.62 | 1.15 | 0.16 | -1.00 | -0.81 | -1.50 | -1.82 | 0.95 | -1.01 | 0.30 | 0.37 | 1.12 | 0.56 | 0.15 | -2.06 |
| Tmem16 | 1.42 | 0.52 | 1.23 | 0.94 | -0.61 | 0.25 | -0.58 | 0.21 | -1.23 | -0.66 | -1.52 | 0.55 | -0.63 | 0.73 | -0.65 | -1.47 | -0.16 | -0.51 | -1.75 | 0.22 |
| Endog | 0.94 | 0.68 | 1.33 | 1.71 | 1.77 | -0.06 | 0.38 | 0.58 | -0.79 | 0.89 | -0.42 | 0.29 | 0.97 | 0.22 | -1.42 | 0.11 | -0.81 | -0.25 | -0.27 | -0.80 |
| Dusp14 | 1.62 | 1.84 | 1.69 | 1.92 | 1.74 | 1.11 | 1.00 | 0.61 | 0.43 | 0.24 | -0.37 | 0.20 | -1.48 | -0.83 | 0.32 | -0.01 | -1.10 | -0.46 | -2.04 | -1.14 |
| Rasd1 | 1.17 | 0.85 | 0.84 | 1.38 | 0.46 | -0.93 | -0.27 | 0.15 | -0.74 | 1.18 | -0.11 | -0.12 | -0.96 | 0.15 | -0.09 | -1.73 | 0.11 | 0.66 | -0.73 | -2.39 |
| Cyp4f15 | 1.75 | -0.16 | 1.38 | 2.30 | 0.77 | 0.25 | 0.66 | 0.39 | -0.20 | 0.28 | 1.42 | 1.25 | 0.36 | -0.03 | -0.91 | -0.74 | 0.66 | 0.68 | -1.39 | -0.47 |
| Dbn1 | 1.11 | 0.73 | 1.71 | 1.47 | 1.56 | 0.22 | -0.64 | 0.49 | 0.75 | 0.52 | 0.25 | -0.37 | -0.33 | 0.13 | -1.09 | -2.19 | 0.10 | -0.14 | -0.97 | -0.33 |
| Rnf114 | 1.31 | 1.47 | 0.91 | 1.60 | 1.24 | 0.92 | 0.18 | 0.53 | -0.54 | 0.21 | 1.65 | 0.79 | 0.55 | 0.53 | -1.38 | -0.63 | -1.24 | 0.65 | 0.50 | -0.58 |
| I7Rn6 | 1.37 | -0.33 | 0.14 | 1.09 | 0.56 | 0.14 | -0.13 | -1.11 | -1.38 | 0.08 | 0.07 | 0.04 | 0.11 | 1.76 | -0.44 | -1.16 | 1.28 | -0.30 | -0.47 | -0.53 |
| D5ErtD5 | 1.16 | 1.28 | -0.18 | 1.09 | 1.95 | 0.11 | 0.62 | 0.41 | -1.46 | 0.42 | 0.09 | -0.11 | -1.28 | 0.36 | 1.62 | -1.45 | -0.54 | 1.69 | 0.05 | 0.18 |
| Cdk5 | 1.87 | 0.81 | 1.56 | 1.30 | 1.19 | 0.37 | 1.47 | 0.21 | -0.48 | -0.02 | -1.56 | -0.24 | -1.20 | -0.21 | 0.53 | -0.42 | -1.44 | -0.09 | -0.12 | -1.76 |
| Syce2 | 1.50 | 1.36 | 1.04 | 0.72 | 0.55 | -0.06 | -0.14 | 1.05 | -1.52 | 0.70 | 1.13 | 1.49 | 1.38 | 0.58 | -1.25 | 0.65 | 0.17 | 0.06 | 0.65 | 0.27 |
| Slc25a20 | 2.20 | 0.33 | 0.59 | 0.81 | 0.75 | -0.80 | 0.08 | 0.34 | 0.02 | -0.05 | 0.36 | -0.41 | -1.81 | 0.85 | -0.46 | -0.59 | -0.27 | -0.28 | 0.06 | -1.50 |
| Dpcd | 1.74 | 0.86 | -0.29 | 0.82 | -0.59 | -1.22 | -0.79 | -0.52 | 0.03 | -0.03 | 0.15 | 0.20 | 0.63 | 0.42 | 0.46 | -0.27 | 1.68 | -0.83 | -1.75 | -1.35 |
| Camk2b | 1.76 | 1.29 | 2.13 | 1.56 | 1.48 | 0.86 | 0.89 | 1.64 | -0.21 | 0.00 | 0.03 | -0.67 | 0.38 | 0.37 | -0.26 | -1.67 | -1.25 | 0.64 | -1.36 | -1.40 |
| Trim17 | 1.26 | 0.27 | 0.53 | 0.67 | 0.22 | 1.64 | 0.81 | 1.14 | 0.31 | -0.63 | 0.27 | 0.48 | -1.81 | -0.40 | 0.28 | -0.59 | -0.21 | 0.70 | -1.69 | -2.39 |
| Srl | 1.36 | 1.39 | 1.25 | 1.24 | 1.00 | 0.07 | 0.02 | -0.27 | 0.23 | 1.16 | 0.71 | -0.04 | -0.06 | -0.83 | -0.67 | 0.80 | 0.40 | 0.24 | -1.02 | -1.43 |
| Dph1 | 1.48 | 2.37 | 1.97 | 1.07 | 0.81 | 0.42 | 0.39 | 1.30 | 0.55 | 0.14 | -0.86 | -0.45 | 0.28 | 0.16 | -0.04 | -1.34 | 0.54 | 0.22 | -1.37 | -0.16 |
| Vps45 | 2.07 | 1.42 | 1.33 | 0.40 | 0.41 | -0.08 | -0.56 | -0.10 | 0.93 | 0.56 | 0.95 | -0.91 | -1.89 | 1.18 | -0.78 | 0.10 | 1.30 | 1.00 | -0.27 | -1.17 |
| Ist1 | 1.27 | 1.41 | 2.18 | 1.79 | 1.41 | 0.85 | 0.48 | 0.50 | 0.87 | 0.51 | -0.43 | -0.76 | -0.48 | -1.09 | 0.42 | 0.49 | -0.80 | 0.05 | -0.19 | -1.16 |
| Fam162a | 0.73 | 1.47 | 1.17 | 0.40 | 0.69 | -1.26 | 0.03 | -0.26 | 0.75 | 0.36 | 0.17 | 0.11 | -0.63 | 0.55 | -0.40 | -0.37 | 0.79 | -0.93 | -0.73 | -0.33 |
| Pabpc1 | -0.27 | 1.47 | 1.43 | 1.12 | 1.46 | 0.90 | -0.42 | 0.15 | -0.89 | 0.66 | 0.70 | -0.06 | 0.16 | -0.26 | 0.65 | -0.11 | 0.43 | 0.01 | -0.18 | 0.43 |
| D17Wsu | 2.20 | 1.35 | 1.06 | 1.99 | 0.99 | 0.09 | 1.17 | 1.08 | 0.52 | -0.06 | -0.69 | -0.86 | 0.58 | -0.58 | -0.57 | -1.30 | 0.88 | 0.03 | -1.29 | -0.55 |
| Vps8 | 1.73 | 0.60 | 0.80 | -0.49 | 0.02 | -0.31 | -0.80 | -0.68 | -0.85 | 0.53 | 1.61 | 0.32 | 0.25 | 0.35 | 1.56 | 1.65 | 0.40 | 0.76 | -0.50 | -2.45 |
| Rps6k1 | 0.79 | 1.11 | 0.93 | 0.87 | 1.19 | -0.24 | -0.83 | 0.47 | 0.99 | -0.24 | 0.37 | 0.75 | 0.73 | -0.67 | -0.81 | 1.03 | -1.87 | -0.01 | -2.18 | -1.13 |
| Zbtb40 | 1.85 | 0.29 | 0.23 | 1.61 | 1.52 | -0.24 | 0.33 | -0.45 | 0.04 | 1.09 | -1.12 | 1.30 | -0.45 | -0.04 | -0.23 | -0.15 | 0.09 | -1.52 | -0.53 | -2.61 |
| Dnajc21 | 0.39 | 0.46 | 0.52 | 0.47 | 0.51 | -1.69 | -0.66 | -0.85 | 0.62 | 0.21 | 0.48 | 1.24 | 0.28 | -0.27 | 0.42 | -0.45 | 0.69 | 0.38 | -2.08 | -2.27 |
| Mef2b | 0.81 | 0.21 | 0.36 | 0.95 | 0.48 | -0.12 | -0.63 | -0.38 | -0.10 | -0.66 | 1.40 | 0.37 | -1.66 | 0.59 | -1.15 | -0.38 | -1.69 | -0.70 | -1.28 | -0.91 |
| Fn3k | 1.16 | 0.29 | 0.42 | 0.42 | 0.12 | -0.22 | -1.60 | 0.20 | -0.57 | -0.09 | 0.06 | 1.51 | -0.53 | -0.07 | 0.01 | -1.08 | -0.31 | -1.25 | -1.26 | 0.10 |
| Ier5 | 0.98 | 0.39 | -0.07 | 0.97 | 1.19 | -0.33 | -0.64 | 1.16 | -0.25 | -1.13 | 0.60 | -0.14 | -1.36 | 0.92 | 1.03 | -0.03 | 1.61 | -1.44 | -2.43 | 0.38 |
| Gps2 | 1.71 | 1.25 | 1.02 | 1.10 | 0.44 | -1.23 | 0.14 | 0.32 | 0.76 | 0.92 | -0.93 | -0.99 | -0.27 | 0.46 | -1.21 | -0.13 | 0.06 | -1.30 | -3.76 | 0.19 |
| Snrpn | 1.64 | 1.96 | 1.34 | 1.56 | 1.64 | 1.17 | 1.35 | 1.08 | 0.70 | -0.74 | 0.73 | -0.17 | 0.25 | -0.04 | -1.35 | 0.14 | 0.36 | -0.24 | -0.11 | -0.53 |
| Pex5 | 0.56 | 0.55 | 0.89 | 0.13 | 0.65 | 0.63 | 0.05 | -0.44 | -1.49 | -0.56 | 0.51 | 0.41 | -1.26 | 0.10 | 0.12 | -0.96 | -0.70 | 0.83 | -0.11 | -0.99 |
| Arf5 | 1.11 | 1.98 | 1.30 | 0.72 | 0.74 | 0.32 | 0.14 | 0.89 | -0.72 | 0.64 | -0.67 | 0.59 | -0.66 | -0.09 | 0.58 | -0.10 | -0.02 | -0.48 | -2.37 | -2.40 |
| Depdc5 | 0.55 | 0.31 | 0.41 | 0.31 | 0.49 | 0.22 | -1.02 | -1.25 | 0.22 | -0.66 | 0.79 | -0.69 | 0.37 | 0.92 | 0.16 | -2.48 | 0.56 | -0.56 | -0.18 | 0.01 |
| Nap114 | 0.72 | 0.81 | 0.38 | 1.24 | 2.53 | 0.54 | 0.17 | -0.51 | 0.73 | 0.20 | -0.06 | -0.93 | -1.69 | 0.22 | 0.24 | -0.81 | -0.28 | 1.14 | -0.46 | 0.03 |
| Psmb5 | 0.11 | -0.09 | 0.80 | 0.11 | -0.12 | -0.95 | -0.74 | -0.15 | -1.60 | -0.27 | 0.41 | 0.89 | -0.17 | 0.21 | -0.61 | -0.26 | 0.28 | -0.03 | -1.61 | -1.98 |
| Nt5m | 2.03 | 1.45 | 0.89 | 1.81 | 0.95 | 0.12 | 0.19 | 1.03 | 0.01 | 1.30 | -0.11 | -0.25 | -1.47 | -0.83 | -1.10 | -0.50 | -0.89 | 0.07 | -0.83 | -1.25 |
| Plk2 | 1.74 | 1.07 | 1.76 | 1.70 | 0.87 | 0.66 | -0.18 | 0.92 | -0.12 | 1.40 | -0.11 | 0.42 | -0.07 | 0.55 | 0.53 | 0.17 | -0.15 | 1.15 | -0.24 | -0.98 |
| Srfbp1 | 1.41 | 0.47 | 0.84 | 0.62 | -0.23 | 0.13 | -0.30 | -0.23 | 0.45 | -1.29 | -1.55 | 1.17 | -0.58 | 1.61 | 0.29 | 0.54 | -0.29 | -0.94 | -3.22 | 1.17 |
| Mon2 | 1.37 | 0.94 | 1.09 | 0.98 | 0.10 | 0.16 | 0.17 | -0.69 | 0.45 | 0.18 | -0.64 | -0.17 | -1.13 | -0.08 | 0.71 | 0.86 | 0.21 | -0.52 | -0.07 | -1.71 |
| Cntd1 | 1.46 | 1.07 | 1.01 | 0.40 | 0.54 | 0.31 | -0.26 | -0.35 | -0.44 | 1.07 | 0.79 | 0.12 | -2.71 | 0.29 | 0.43 | 1.65 | 0.34 | 0.06 | -2.80 | -1.03 |
| Bank1 | 0.35 | 1.43 | 0.98 | 1.21 | 1.31 | -0.64 | 0.58 | 0.26 | 0.34 | 0.61 | 1.11 | 1.27 | 0.64 | -0.44 | 0.18 | -0.62 | 1.11 | 0.09 | -0.93 | -2.12 |
| Entpd4 | 1.46 | 1.61 | 1.16 | 1.76 | 1.21 | 0.62 | 0.68 | 1.18 | 0.35 | 0.25 | -0.77 | -0.15 | 0.02 | -0.52 | -0.68 | -1.90 | -0.27 | -1.25 | -0.58 | -1.42 |
| Pfdn2 | 0.36 | 0.55 | 0.42 | 0.50 | 0.31 | -0.62 | -0.23 | -0.41 | -0.90 | 0.26 | -0.71 | -0.61 | -2.12 | 0.39 | 0.48 | 0.90 | 0.34 | -0.60 | -2.55 | -1.95 |
| Lrrc10b | 1.29 | 1.04 | 1.93 | 1.49 | 0.90 | -0.02 | 0.45 | 0.44 | 0.44 | 1.37 | -1.73 | 0.35 | -0.75 | -0.34 | -0.29 | -0.81 | -0.99 | 0.34 | -2.81 | 0.25 |
| Gm1033 | 1.50 | 0.54 | 1.48 | 1.47 | 2.06 | 0.60 | 0.77 | 0.54 | -0.02 | 1.30 | 0.25 | -2.05 | 0.64 | -0.48 | -1.12 | -1.97 | 0.00 | 0.46 | -0.16 | -0.92 |
| Fras1 | 0.61 | 0.72 | 0.97 | 0.51 | 0.50 | -0.41 | 0.05 | -0.21 | -0.10 | 0.12 | 1.05 | -1.33 | 1.19 | -0.37 | -0.34 | -1.25 | 0.09 | 0.39 | -1.13 | -2.55 |
| Dmap1 | 1.35 | 1.71 | 0.37 | 0.56 | 0.96 | 0.96 | 0.21 | 0.08 | -0.05 | 0.00 | 0.67 | -0.36 | 0.26 | 0.19 | 0.51 | -0.20 | 1.14 | -0.82 | 0.14 | -0.49 |
| Mrp149 | 0.91 | 1.43 | 0.98 | 1.17 | 0.74 | 0.27 | 0.39 | 0.80 | -0.26 | 0.64 | -0.57 | -1.30 | 0.50 | 0.73 | 0.20 | -1.23 | 0.78 | -1.95 | -2.16 | -0.69 |
| Tbc1d17 | 1.17 | 0.76 | 1.34 | 1.50 | 1.31 | 0.93 | 0.25 | 0.40 | 0.52 | 0.67 | -0.88 | 0.22 | 0.05 | 0.45 | -0.11 | 0.31 | 0.18 | 0.49 | -0.96 | -1.32 |
| Htra4 | 0.99 | 0.66 | 0.09 | 0.82 | 1.04 | -0.09 | 0.00 | -0.19 | 0.54 | 0.09 | -0.56 | 0.12 | -0.62 | 0.35 | 0.38 | -0.30 | -0.46 | 0.48 | -0.28 | -4.72 |
| Pramef8 | 1.15 | 1.19 | 1.49 | 1.08 | 1.36 | 0.96 | 0.65 | 0.89 | 0.44 | 0.34 | 0.35 | 1.63 | -0.59 | 0.13 | -1.15 | -0.15 | -1.11 | -0.61 | -0.74 | -3.20 |
| CSar1 | 0.26 | 0.71 | 0.61 | -0.44 | 0.55 | -3.45 | -3.21 | -0.33 | 0.57 | -1.92 | 0.50 | 0.59 | 0.59 | 0.82 | 0.55 | 0.40 | 0.04 | 0.01 | 0.37 | 0.36 |
| Smo | -0.39 | 0.05 | 0.31 | 0.35 | 0.33 | -3.06 | -3.22 | -2.71 | 0.24 | -0.57 | 0.67 | 0.76 | -0.20 | 0.54 | 0.66 | -1.18 | 0.56 | 0.55 | 0.49 | -0.35 |
| Tmsb4x | 1.33 | 1.33 | -0.35 | -1.00 | 0.48 | -1.92 | -1.92 | -1.92 | -1.52 | -0.35 | 0.48 | 1.33 | -0.35 | 0.48 | 0.48 | 1.33 | 0.48 | 0.48 | 1.33 | -0.35 |
| Ift81 | -0.46 | 0.52 | 0.88 | -0.46 | 0.18 | -0.12 | -1.83 | -4.33 | -0.43 | -0.67 | 0.72 | 0.43 | 0.09 | 0.20 | 0.97 | 0.48 | -0.30 | -0.39 | 0.14 | 0.16 |
| Rbm27 | 0.26 | 0.68 | 0.58 | -0.83 | -0.70 | -4.22 | -0.48 | -2.61 | -0.24 | -0.45 | 0.98 | 0.06 | 0.11 | 0.76 | -0.02 | 0.27 | 0.86 | 0.24 | 0.64 | 0.48 |
| Prkca | 0.18 | -0.32 | -0.32 | 0.14 | -1.15 | -2.85 | -1.28 | -2.22 | -2.58 | -0.21 | 0.58 | 1.15 | 0.65 | 0.92 | 0.49 | 0.17 | 0.54 | 0.75 | 0.00 | 0.53 |
| Ulk2 | 0.35 | 0.11 | -0.51 | -0.97 | 0.41 | -1.64 | -0.85 | -1.82 | -1.32 | -2.50 | -0.85 | 0.67 | 0.25 | 2.08 | 0.22 | 0.55 | 0.98 | -1.02 | -0.22 | -0.24 |
| Mob1a | 0.83 | -2.18 | 0.08 | 0.57 | 0.02 | -1.41 | -1.81 | -1.73 | -0.27 | -2.97 | -0.11 | 0.66 | 0.61 | 1.03 | 0.11 | 1.27 | 0.69 | 1.01 | 0.91 | 0.17 |
| Ptbp3 | 0.32 | -0.31 | -0.76 | -0.49 | -0.13 | -2.08 | -3.30 | -0.33 | -2.32 | -0.87 | -0.53 | -0.40 | -0.04 | 0.42 | 0.62 | 0.79 | 0.42 | 0.74 | 1.05 | 0.38 |
| Mettl13 | -0.41 | 0.12 | 1.35 | 0.06 | -1.14 | -2.82 | -2.11 | -1.05 | -1.01 | -0.52 | 1.51 | -0.46 | 1.09 | 0.95 | -1.07 | -0.52 | 0.37 | 0.54 | -0.35</ | |

| | | | | | | | | | | | | | | | | | | | | |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Ndufc1 | 0.21 | 0.25 | -0.13 | -0.34 | -0.17 | -2.40 | -0.51 | -1.99 | -0.51 | -0.56 | -0.36 | 1.09 | -0.65 | 0.41 | 0.66 | 1.07 | 0.99 | -0.23 | -0.48 | 0.43 |
| Kcmf1 | -0.55 | 0.11 | -0.17 | -1.07 | -0.67 | -1.84 | -1.51 | -0.83 | -1.37 | -2.57 | 0.54 | 1.07 | -0.90 | 0.76 | 0.81 | 1.28 | 0.21 | 0.09 | 0.37 | 0.15 |
| Pmpcb | 0.08 | -0.44 | 0.09 | -0.53 | -0.37 | -1.94 | -1.70 | -1.84 | -0.17 | -1.18 | 1.35 | 1.01 | -1.01 | -0.30 | 1.10 | 0.06 | 0.02 | -1.19 | 0.92 | 1.77 |
| Csmd1 | -0.36 | -1.30 | -0.39 | -0.59 | 0.20 | -1.20 | -1.68 | -3.04 | -1.20 | -0.96 | 0.53 | 0.41 | 0.10 | 0.68 | 0.47 | 1.08 | -0.10 | 1.96 | -1.91 | 0.44 |
| Hbegf | -0.20 | 0.01 | -0.32 | -0.23 | -0.94 | -1.45 | -0.93 | -2.23 | -1.16 | -1.53 | -0.08 | 0.68 | -1.58 | 0.11 | 0.24 | 0.85 | 0.63 | 0.56 | 1.03 | 1.41 |
| Mrpl9 | -0.65 | -0.40 | -1.05 | -0.59 | 0.20 | -1.80 | -1.51 | -1.14 | -1.55 | -2.07 | 0.44 | 0.82 | 1.17 | 0.02 | -0.15 | 0.75 | 1.15 | 0.44 | 1.48 | 1.01 |
| Zfp365 | 0.40 | -0.27 | -0.67 | -1.19 | -0.55 | -0.85 | -1.21 | -1.71 | -1.76 | -2.30 | 0.83 | 0.39 | 0.46 | 0.48 | 0.66 | -0.02 | 0.55 | 0.36 | -1.03 | -2.52 |
| Btaf1 | 0.78 | -1.59 | 0.15 | 0.05 | -0.99 | -2.10 | -1.96 | -1.77 | -0.19 | -1.08 | -0.76 | -0.05 | -1.21 | 0.10 | 1.33 | 0.78 | 0.39 | 0.64 | 1.01 | 0.23 |
| Mospd2 | 0.68 | -0.55 | -0.04 | -0.76 | -0.82 | -1.67 | -0.72 | -0.83 | -1.28 | -2.47 | 0.45 | 1.11 | 0.22 | -0.24 | 0.57 | 1.14 | 0.94 | 1.00 | 0.71 | -0.10 |
| Hbb-bt | -0.76 | -0.22 | -0.48 | -0.13 | -1.18 | -3.03 | -1.03 | -1.10 | -1.31 | -1.74 | 1.02 | 1.15 | 1.83 | 0.75 | 0.54 | 0.27 | -0.12 | -0.30 | 0.24 | 0.66 |
| Srp9 | -0.59 | 1.31 | -0.60 | -1.47 | -1.04 | -1.69 | -1.49 | -2.18 | -0.52 | -1.91 | 0.66 | 2.70 | 0.30 | 0.73 | 0.49 | 0.64 | 0.53 | -0.24 | -0.28 | 0.50 |
| Zeb2 | -0.43 | -0.16 | -0.95 | -1.54 | -0.89 | -1.61 | -2.33 | -1.89 | -1.27 | -2.25 | 0.93 | 1.09 | 0.83 | 1.09 | 0.80 | 0.43 | 0.74 | 0.53 | 0.05 | -0.64 |
| Zcchc24 | -0.25 | 0.09 | 0.07 | -0.90 | -0.70 | -1.30 | -0.59 | -1.50 | -1.76 | -1.90 | -0.08 | 0.10 | 0.09 | 1.60 | -0.64 | 0.72 | 0.40 | 0.64 | 1.57 | 1.71 |
| Ints8 | -0.43 | -0.88 | -0.62 | -0.88 | -0.95 | -2.06 | -1.24 | -2.01 | -1.75 | -2.04 | 0.75 | 0.80 | 1.05 | 0.63 | 0.81 | 0.94 | 0.96 | 0.68 | 1.03 | 0.34 |
| Acp2 | -0.42 | 0.33 | -1.83 | -0.17 | -0.69 | -0.87 | -1.46 | -1.57 | -2.76 | -1.38 | 1.48 | 0.46 | -0.29 | 0.44 | 0.10 | -0.28 | 0.11 | 0.20 | -0.07 | 1.26 |
| Atp6v1h | -0.47 | -0.86 | -0.80 | -1.02 | -1.07 | -0.92 | -2.27 | -2.43 | -1.89 | -1.97 | -0.18 | 0.52 | 0.65 | 1.25 | 0.30 | 0.23 | -0.19 | 1.08 | -0.06 | -0.56 |
| Ubxn2a | -0.29 | -0.83 | 0.56 | -1.78 | -0.54 | -2.06 | -1.97 | -2.36 | -0.52 | -1.11 | 0.27 | 0.77 | 0.78 | 1.17 | 0.68 | 0.72 | 1.14 | 0.90 | -0.37 | 1.62 |
| Arhgap3 | -0.49 | -0.46 | -1.16 | -1.20 | -0.47 | -1.58 | -2.03 | -2.45 | -1.07 | -1.79 | 0.07 | 0.40 | 0.37 | 1.05 | 0.87 | -0.56 | 0.67 | 0.80 | -0.85 | -0.15 |
| Luzp1 | -0.78 | -0.86 | -0.91 | -1.30 | -0.60 | -1.44 | -1.73 | -3.07 | -1.36 | -1.99 | -0.01 | 1.17 | -0.48 | 0.66 | 0.54 | 0.97 | 0.88 | 0.17 | 0.93 | 0.67 |
| Ptprf | 0.27 | -0.05 | -0.15 | -0.92 | -0.48 | 0.04 | -1.91 | -1.85 | -2.08 | -0.64 | -0.33 | -0.87 | 0.45 | 0.67 | 0.40 | 1.86 | 1.21 | 0.80 | 1.01 | 0.48 |
| Mettl7a3 | -1.31 | -1.07 | -0.25 | -0.17 | -0.31 | -2.63 | -1.56 | -2.09 | -0.62 | -1.31 | 0.42 | 0.27 | 0.85 | 0.11 | -0.80 | -0.19 | -0.08 | 0.65 | 0.50 | 1.26 |
| Dhx36 | -0.38 | -0.52 | -1.38 | -1.41 | -0.58 | -1.51 | -1.55 | -2.05 | -2.10 | -2.03 | 0.66 | 0.36 | 0.92 | 0.67 | 0.52 | -0.27 | 0.90 | 0.64 | 0.21 | 0.41 |
| Polr3f | -0.17 | -1.33 | -0.10 | -1.46 | -0.18 | -1.42 | -1.57 | -1.45 | -2.20 | -1.53 | 0.70 | 1.38 | 1.06 | 0.87 | 1.16 | 0.70 | 0.68 | 0.31 | -0.12 | 0.20 |
| H3f3a | -0.64 | -0.89 | -0.88 | 0.50 | -0.94 | -1.55 | -0.67 | -1.83 | -2.51 | -1.20 | 1.01 | 0.36 | -0.17 | 0.58 | 1.46 | 0.08 | -0.14 | -0.02 | 1.36 | 0.67 |
| Jarid2 | 0.95 | -0.37 | -1.17 | -0.42 | -0.68 | -1.11 | -0.86 | -2.25 | -1.49 | -0.88 | 0.81 | 1.09 | 0.39 | -0.72 | 0.32 | -1.46 | 1.06 | -0.91 | -0.93 | 0.31 |
| Elp4 | 0.67 | -0.23 | -0.05 | 0.79 | -0.26 | -1.22 | -2.10 | 0.07 | -0.38 | -0.34 | 1.75 | 1.94 | 0.45 | 0.09 | 1.12 | 0.79 | 0.11 | -1.00 | 0.43 | 1.15 |
| Tsnax | -0.84 | 0.30 | 0.11 | -0.23 | 0.39 | -1.22 | -0.44 | -0.75 | -2.07 | -0.68 | 0.61 | 0.51 | 0.06 | -0.53 | 0.66 | 0.41 | 0.57 | 1.30 | -1.59 | -1.05 |
| Rpl9 | 0.16 | -0.27 | -0.82 | -0.58 | -0.35 | -1.61 | -1.54 | -1.38 | -1.02 | -1.13 | -0.35 | 0.47 | -0.52 | 0.70 | 0.07 | -1.02 | -0.01 | -0.44 | -0.73 | 0.32 |
| Insig2 | -0.53 | -1.11 | -1.04 | -1.49 | -1.03 | -2.14 | -1.75 | -2.12 | -2.11 | -1.90 | 0.48 | 0.83 | 0.32 | 1.09 | 0.54 | 0.38 | 0.80 | 0.51 | -0.07 | 0.38 |
| Psmd10 | -0.43 | -0.44 | -0.85 | -0.82 | -1.24 | -1.30 | -2.35 | -1.36 | -1.40 | -2.18 | 0.04 | 0.83 | 0.30 | -0.29 | -0.44 | 0.34 | -0.43 | 0.74 | 0.65 | 0.19 |
| Zcrb1 | -0.70 | 0.00 | -1.04 | -0.87 | -1.63 | -1.59 | -1.35 | -1.75 | -2.03 | -2.35 | -0.12 | -0.18 | 0.34 | 0.38 | 0.88 | 0.69 | 1.22 | 0.60 | 0.33 | -0.13 |
| Endod1 | -0.61 | -0.78 | -1.11 | -0.99 | -1.50 | -2.15 | -1.97 | -1.64 | -2.00 | -2.00 | 0.35 | 0.63 | 1.09 | 0.70 | 0.34 | 0.67 | 0.75 | 0.66 | 0.57 | 0.98 |
| Hyls1 | 0.81 | 0.33 | -0.84 | -0.53 | 0.11 | -2.10 | -0.31 | -0.50 | -1.18 | -0.80 | 0.98 | 1.73 | 0.77 | 1.71 | 0.34 | 0.61 | 0.82 | 0.58 | 0.12 | -0.73 |
| Abhd15 | 0.52 | -0.14 | -0.26 | -0.62 | -0.11 | -2.03 | -1.26 | -1.29 | -1.12 | 0.35 | 1.59 | 0.39 | 0.63 | -1.07 | 0.83 | 0.69 | 0.74 | 0.14 | -1.89 | 0.20 |
| Trpc5 | -0.78 | -0.63 | -0.43 | -0.57 | -0.95 | -1.52 | -0.91 | -1.27 | -2.91 | -1.50 | 1.11 | 0.94 | 1.03 | 1.16 | 0.52 | -0.22 | 0.98 | 0.65 | -0.40 | -0.23 |
| Rad21 | -0.53 | -1.52 | -0.01 | -0.66 | -0.24 | -2.20 | -2.49 | -0.40 | -1.33 | -1.24 | 0.08 | 0.05 | 0.15 | -0.30 | 0.63 | 0.79 | 0.25 | -0.79 | 0.63 | 1.38 |
| Gad1 | -0.01 | 0.42 | -0.38 | -0.85 | -0.21 | -0.46 | -1.71 | -1.17 | -0.69 | -1.64 | 1.64 | 2.28 | 0.83 | 0.30 | 0.65 | 0.00 | 0.97 | 0.51 | -0.22 | 0.85 |
| Galk2 | 0.48 | -0.15 | 1.14 | -0.25 | -0.41 | -0.60 | -0.42 | -0.49 | -1.03 | -1.29 | -0.49 | 1.14 | 0.45 | 1.02 | -0.83 | 0.77 | 1.01 | 0.54 | 0.94 | 0.69 |
| Syt4 | 0.22 | -0.38 | -0.29 | -1.12 | -1.33 | -1.35 | -1.58 | -1.47 | -1.95 | -1.18 | 1.04 | 1.42 | 0.30 | 0.41 | 0.26 | 0.65 | 0.70 | 0.20 | -0.84 | -1.10 |
| Psmc1 | -1.41 | -1.15 | -0.20 | -0.65 | -1.30 | -2.31 | -2.19 | -1.76 | -1.56 | -1.46 | 0.42 | 0.87 | 1.40 | 0.63 | 0.51 | 0.99 | 0.17 | 0.68 | -0.30 | 0.51 |
| Cyld | 0.55 | 0.14 | -0.39 | -0.15 | -0.45 | -1.96 | -0.86 | -1.35 | 0.11 | -0.74 | 1.81 | 0.46 | -0.23 | 0.16 | 0.30 | 0.24 | 0.96 | -0.25 | -0.36 | -0.85 |
| Gtf2h2 | 0.12 | 0.37 | -0.18 | -0.27 | 0.86 | 0.14 | -0.28 | -0.68 | -1.09 | -1.65 | 1.03 | 0.96 | 0.74 | 0.95 | 0.87 | -1.98 | 1.62 | 0.19 | -0.36 | -0.09 |
| Chchd6 | 0.30 | 0.36 | -0.97 | 0.52 | -0.16 | -1.28 | -0.87 | 0.23 | -1.51 | -0.94 | 0.58 | 1.67 | 2.28 | -0.24 | 0.07 | 1.37 | 0.16 | -0.44 | -1.38 | -0.60 |
| Prpf38b | -0.81 | -0.93 | -1.09 | -1.20 | -0.67 | -2.18 | -1.72 | -1.39 | -1.71 | -2.11 | 0.64 | -0.83 | 0.57 | 0.54 | 0.57 | -0.80 | 0.98 | -0.35 | 0.50 | 0.35 |
| Ankrd17 | -0.64 | -1.12 | -1.05 | -1.31 | -1.09 | -1.88 | -1.77 | -1.93 | -1.96 | -2.07 | 0.60 | 0.32 | 0.40 | 0.37 | 0.80 | 0.71 | 0.38 | 0.39 | 0.35 | -0.11 |
| Ints12 | -0.52 | -0.94 | -1.31 | -0.65 | -0.19 | -2.07 | -1.35 | -1.58 | -1.92 | -1.04 | -0.16 | 0.77 | 0.75 | -0.32 | 1.20 | 0.37 | 0.53 | 0.78 | 1.06 | 1.69 |
| Aff4 | -1.61 | -1.66 | -0.17 | -1.20 | -0.06 | -1.76 | -1.50 | -1.55 | -2.07 | -2.04 | -0.62 | 0.51 | 1.08 | 1.02 | 1.15 | -0.02 | 0.73 | 1.12 | 0.19 | 0.09 |
| Esyt2 | -0.80 | -0.93 | -0.97 | -0.84 | -1.30 | -1.73 | -1.85 | -1.92 | -1.74 | -1.80 | 0.74 | 0.62 | 1.20 | 0.38 | 0.54 | 0.80 | 0.37 | 0.25 | 0.69 | 0.09 |
| Peli1 | -0.97 | -1.00 | -1.34 | -0.62 | -1.23 | -1.61 | -1.32 | -2.21 | -1.87 | -2.35 | 0.34 | 0.78 | 0.92 | 0.52 | 1.02 | 0.02 | 0.76 | 0.77 | 0.25 | 0.62 |
| Nicn1 | -0.05 | -0.24 | -0.31 | -1.13 | -0.46 | -1.38 | -1.12 | -1.59 | -0.75 | -1.51 | 1.83 | -0.39 | 1.22 | -0.11 | -0.48 | -0.58 | -0.03 | 0.56 | -0.17 | -0.05 |
| Trappc6f | 0.09 | 0.41 | -0.45 | 0.04 | -0.30 | -0.30 | -1.10 | -1.41 | -0.58 | 0.77 | 1.26 | -0.27 | 1.60 | 0.58 | 0.79 | 1.16 | 0.30 | 0.02 | -0.27 | |
| Msantd4 | 0.05 | -0.99 | -1.14 | -0.83 | -0.26 | -2.02 | -1.09 | -1.49 | -2.07 | -0.66 | 1.15 | 0.37 | 1.07 | 0.87 | -0.01 | 1.02 | 0.31 | -0.22 | 1.23 | 0.72 |
| Slitrk2 | -0.24 | -0.37 | -1.45 | -0.96 | -0.99 | -0.97 | -1.12 | -1.50 | -2.31 | -2.26 | 1.17 | 1.39 | 0.02 | 0.98 | 0.63 | 0.15 | 0.52 | 0.78 | 1.08 | -0.85 |
| Rfwd2 | -0.85 | -1.43 | -0.54 | -1.16 | -0.84 | -1.98 | -1.55 | -1.97 | -1.69 | -1.75 | 0.37 | 1.52 | 0.07 | 0.82 | 0.99 | 0.81 | 0.33 | -0.30 | 0.12 | 0.46 |
| Kans1 | -0.88 | -0.75 | -0.90 | -0.62 | -0.67 | -0.85 | -2.27 | -1.81 | -1.67 | -1.32 | 0.19 | 1.14 | 0.36 | 0.60 | 1.10 | -0.22 | 1.16 | 1.11 | 0.89 | 1.07 |
| Elf2 | -1.31 | -1.06 | -1.29 | -0.88 | -0.74 | -1.53 | -2.22 | -2.38 | -1.54 | -1.68 | -0.05 | 0.70 | 0.40 | 1.20 | 0.70 | 0.38 | 0.99 | 0.41 | 0.11 | 1.07 |
| Sp4 | -0.19 | -0.78 | -1.29 | -1.92 | -0.86 | -2.14 | -1.96 | -1.20 | -1.57 | -2.20 | 0.38 | 0.55 | 0.72 | 1.25 | 0.14 | -0.29 | 0.56 | 0.33 | -0.70 | 0.17 |
| Homer1 | -0.50 | -1.07 | -1.26 | -1.15 | -1.71 | -1.63 | -1.53 | -1.41 | -2.17 | -1.69 | 0.17 | 1.10 | 0.59 | 0.83 | 0.80 | -0.10 | 0.87 | 0.88 | -0.31 | -0.59 |
| Ccnt2 | -0.97 | -0.80 | -0.54 | -1.42 | -0.78 | -1.58 | -1.83 | -1.84 | -2.12 | -1.12 | 0.43 | -0.85 | 0.73 | 1.11 | 0.34 | 0.71 | 0.94 | 0.48 | -0.25 | 0.55 |
| Hsp90b1 | -1.02 | -1.08 | -1.18 | -1.23 | -1.26 | -1.59 | -1.92 | -2.18 | -1.70 | -2.31 | 0.50 | 0.61 | 0.26 | 0.75 | 0.47 | 0.54 | 0.56 | 0.31 | 0.43 | 0.39 |
| Rnf20 | -0.77 | -0.70 | -0.93 | -2.36 | -0.89 | -1.79 | -1.54 | -2.22 | -1.88 | -2.11 | 0.22 | 0.76 | 0.57 | 0.75 | 0.77 | 0.22 | 0.64 | 0.76 | 0.28 | -0.08 |
| Baz2a | -0.61 | -0.94 | -1.17 | -1.56 | -0.84 | -1.04 | -1.93 | -2.70 | -1.68 | -1.64 | 0.96 | 0.15 | 0.39 | 0.73 | 0.71 | -0.19 | 0.96 | 0.85 | 0.18 | -0.83 |
| Magi3 | -1.19 | -1.08 | -1.49 | -1.08 | -0.60 | -1.54 | -1.63 | -2.34 | -1.78 | -1.99 | 0.49 | 0.40 | 0.79 | 1.03 | 0.65 | 0.52 | 0.64 | 0.30 | 0.36 | -0.03 |
| Pcmtd1 | -1.12 | -0.97 | -1.30 | -1.55 | -1.00 | -1.61 | -1.85 | -1.91 | -2.36 | -2.01 | 0.67 | 0.78 | 0.67 | 0.87 | 0.76 | 0.45 | 0.59 | 0.41 | 0.44 | |