**S2 Table. RNAs with the highest allelic ratios.**

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| --- | --- | --- | --- | --- | --- |
| **Gene** | **Chr** | **Pos** | **Location** | **Cytosol AEI** | **Polysome AEI** |
| ABL1 | chr9 | 133761883 | 3′ UTR | 3.0 | 1.4 |
| ACP1 | chr2 | 272051 | exonic | 1.8 | 2.9 |
| AKAP11 | chr13 | 42876290 | exonic | 3.4 | 1.1 |
| ALKBH1 | chr14 | 78139988 | 3′ UTR | 3.2 | 1.7 |
| ALKBH5 | chr17 | 18112675 | 3′ UTR | 3.2 | 1.1 |
| APOL3 | chr22 | 36537893 | exonic | 3.4 | 1.2 |
| ATP5C1 | chr10 | 7830207 | exonic | 3.3 | 2.5 |
| BTBD2 | chr19 | 1997363 | exonic | 3.0 | 1.6 |
| C11orf24 | chr11 | 68030015 | exonic | 3.3 | 1.3 |
| C17orf81 | chr17 | 7163200 | 3′ UTR | 2.9 | 1.1 |
| CASP10 | chr2 | 202050677 | exonic | 2.9 | 1.9 |
| CCDC75(dist=5545), EIF2AK2(dist=3001) | chr2 | 37329283 | intergenic | 3.0 | 1.6 |
| CCDC91 | chr12 | 28412372 | exonic | 3.0 | 1.4 |
| CD226 | chr18 | 67531026 | 3′ UTR | 3.3 | 2.6 |
| CKS2 | chr9 | 91926124 | 5′ UTR | 3.8 | 1.2 |
| CLIP2 | chr7 | 73819191 | 3′ UTR | 2.9 | 2.0 |
| CNDP2 | chr18 | 72178161 | exonic | 3.1 | 1.6 |
| CPOX | chr3 | 98299365 | 3′ UTR | 3.1 | 1.2 |
| CR936688 | chr4 | 17629434 | upstream | 3.0 | 2.0 |
| CWC27 | chr5 | 64273018 | exonic | 1.1 | 2.9 |
| CYBRD1 | chr2 | 172412008 | 3′ UTR | 3.9 | 1.1 |
| DAP | chr5 | 10680487 | 3′ UTR | 3.5 | 1.9 |
| DDX6 | chr11 | 118621495 | 3′ UTR | 3.1 | 1.3 |
| DNMBP | chr10 | 101657880 | exonic | 3.0 | 2.8 |
| EI24 | chr11 | 125452313 | exonic | 3.0 | 1.5 |
| EPDR1 | chr7 | 37990955 | 3′ UTR | 3.6 | 2.3 |
| FHIT | chr3 | 59908126 | exonic | 3.2 | 1.1 |
| GFER | chr16 | 2035907 | exonic | 3.0 | 1.5 |
| GMNN | chr6 | 24780892 | exonic | 1.7 | 2.9 |
| IKZF3 | chr17 | 37917727 | 5′ UTR | 3.0 | 3.0 |
| GYG1 | chr3 | 148745236 | 3′ UTR | 3.7 | 1.5 |
| HELLS(dist=5887), CYP2C18(dist=75508) | chr10 | 96367743 | intergenic | 3.7 | 2.9 |
| HIST1H2AC | chr6 | 26124430 | 5′ UTR | 3.5 | 1.7 |
| HLA-B,HLA-C | chr6 | 31239108 | exonic | 3.2 | 1.9 |
| HSP90B1 | chr12 | 104341103 | exonic | 3.4 | 1.5 |
| IDI1 | chr10 | 1086116 | 3′ UTR | 3.3 | 2.1 |
| INPP5D | chr2 | 234054873 | exonic | 3.7 | 1.4 |
| INSR | chr19 | 7112645 | 3′ UTR | 3.3 | 2.7 |
| KCTD7 | chr7 | 66107971 | 3′ UTR | 3.1 | 2.8 |
| KDM3B | chr5 | 137754695 | exonic | 3.1 | 1.3 |
| KIF26B | chr1 | 245866020 | 3′ UTR | 3.0 | 1.8 |
| KIF3B | chr20 | 30922398 | 3′ UTR | 3.0 | 2.2 |
| KRR1 | chr12 | 75900588 | exonic | 3.0 | 2.2 |
| LIMS1 | chr2 | 109302388 | 3′ UTR | 3.1 | 2.5 |
| LOC390940 | chr19 | 44085827 | exonic | 3.2 | 2.4 |
| LOC729013 | chr11 | 10900584 | ncRNAexonic | 2.9 | 1.2 |
| LY75,LY75-CD302 | chr2 | 160759491 | intronic | 4.0 | 1.8 |
| LYRM7(dist=17844), CDC42SE2(dist=40739) | chr5 | 130558963 | intergenic | 3.4 | 1.4 |
| MAN1A1 | chr6 | 119499566 | 3′ UTR | 3.0 | 2.1 |
| MAPK14 | chr6 | 36078180 | 3′ UTR | 3.8 | 1.1 |
| MED11 | chr17 | 4636565 | 3′ UTR | 3.8 | 1.1 |
| MPV17L2 | chr19 | 18307108 | exonic | 3.4 | 1.1 |
| MRPL52 | chr14 | 23299286 | exonic | 2.5 | 2.9 |
| MRPS17 | chr7 | 56023486 | downstream | 3.6 | 2.4 |
| MTCH1 | chr6 | 36936606 | 3′ UTR | 3.0 | 1.3 |
| MTOR | chr1 | 11181327 | exonic | 3.0 | 1.1 |
| MTPAP | chr10 | 30629226 | exonic | 3.4 | 1.4 |
| MVD | chr16 | 88718353 | 3′ UTR | 3.0 | 2.6 |
| NCR2 | chr6 | 41303592 | 5′ UTR | 3.6 | 1.3 |
| NLK | chr17 | 26518061 | exonic | 4.2 | 1.4 |
| NOTCH1 | chr9 | 139389184 | 3′ UTR | 3.3 | 1.3 |
| NUDT6 | chr4 | 123814308 | exonic | 3.0 | 2.7 |
| NUP214 | chr9 | 134020092 | exonic | 3.5 | 2.0 |
| PAFAH1B1 | chr17 | 2588717 | 3′ UTR | 1.2 | 2.9 |
| PDXP,SH3BP1 | chr22 | 38062589 | 3′ UTR | 3.6 | 1.1 |
| PGLS | chr19 | 17628587 | exonic | 2.9 | 1.7 |
| PHC3 | chr3 | 169806816 | 3′ UTR | 3.0 | 1.0 |
| PLBD2(dist=1493), SDS(dist=1300) | chr12 | 113828951 | intergenic | 4.0 | 1.5 |
| PNPO | chr17 | 46026156 | 3′ UTR | 3.3 | 1.7 |
| POLD4 | chr11 | 67119427 | 3′ UTR | 1.3 | 2.9 |
| POLE | chr12 | 133219831 | exonic | 3.5 | 2.3 |
| PRCP | chr11 | 82535963 | exonic | 3.2 | 1.5 |
| PRRC1 | chr5 | 126887706 | 3′ UTR | 2.9 | 1.2 |
| PRUNE | chr1 | 151006539 | exonic | 3.0 | 1.8 |
| PSMB6 | chr17 | 4699552 | exonic | 3.0 | 1.8 |
| PSME1(uc001wmg.3:exon11:c.670-1G>T) | chr14 | 24607944 | splicing | 2.4 | 2.9 |
| RBM33 | chr7 | 155568550 | 3′ UTR | 3.3 | 1.1 |
| RHOH | chr4 | 40245990 | 3′ UTR | 3.3 | 2.2 |
| RNF111 | chr15 | 59368167 | exonic | 2.9 | 1.6 |
| RPA1 | chr17 | 1801189 | 3′ UTR | 4.2 | 1.0 |
| RPL13 | chr16 | 89630026 | 3′ UTR | 3.5 | 1.3 |
| RPL23AP82 | chr22 | 51223684 | ncRNA exonic | 3.6 | 3.1 |
| RPL36 | chr19 | 5690305 | 5′ UTR | 3.0 | 3.0 |
| RRAGD | chr6 | 90076685 | 3′ UTR | 3.8 | 2.7 |
| SAMD8 | chr10 | 76940216 | 3′ UTR | 3.6 | 1.1 |
| SELRC1 | chr1 | 53153432 | exonic | 3.3 | 1.1 |
| SERPINH1 | chr11 | 75283653 | 3′ UTR | 1.5 | 2.9 |
| SFT2D1 | chr6 | 166736362 | exonic | 3.1 | 1.6 |
| SLU7 | chr5 | 159835658 | exonic | 3.0 | 1.4 |
| SORL1 | chr11 | 121425955 | exonic | 1.2 | 2.9 |
| SRRD | chr22 | 26887829 | 3′ UTR | 3.6 | 2.0 |
| ST3GAL3 | chr1 | 44396646 | 3′ UTR | 3.7 | 1.5 |
| STARD3NL | chr7 | 38269668 | 3′ UTR | 3.8 | 1.4 |
| SYT11 | chr1 | 155829511 | 5′ UTR | 3.1 | 1.3 |
| TMPO | chr12 | 98943103 | 3′ UTR | 3.0 | 1.3 |
| UBC | chr12 | 125396680 | exonic | 3.6 | 3.2 |
| ZDHHC7 | chr16 | 85008366 | 3′ UTR | 3.1 | 1.1 |
| ZNF416 | chr19 | 58084930 | exonic | 3.0 | 3.2 |
| ZNF460(dist=10003), ZNF543(dist=16426) | chr19 | 57815439 | intergenic | 3.2 | 2.3 |

Allelic ratios were calculated with RNA-seq data of cytosol and polysome from LCLs, and 100 mRNAs and ncRNAs with highest allelic ratios in either cytosol or polysomes are listed. An allelic ratio 1.0 suggests equal expression of both alleles.