

| Gene | Human homologue | Yeast Homologue | Firefly/Renilla | Description | Class |
|--------------|----------------------|-------------------|-----------------|---|-------|
| CG4699 | | | 0.17 | NSL1 | 1 |
| CG4756 | SAP30L | | 0.24 | Sin3associated protein | 1 |
| HDAC4 | HDAC4 | | 0.24 | histone deacetylase | 1 |
| CG8233 | FLJ10081 | | 0.3 | NSL3 | 1 |
| CG1135 | MCRS1 | | 0.31 | NSL component | 1 |
| Sin3A | SIN3A | SIN3 | 0.31 | Sin3 corepressor | 1 |
| Dsp1 | HMGB2 | | 0.35 | HMG box protein | 1 |
| MBD-R2 | | | 0.35 | DNA binding TF | 1 |
| hyx | CDC73 | | 0.36 | paf component | 1 |
| CG2469 | CTR9 | CTR9 | 0.38 | paf component | 1 |
| Z4 | | | 0.39 | z4 | 1 |
| CG14220 | SUDS3 | | 0.4 | Sin3A complex member | 1 |
| atms | PAF1 | | 0.41 | Pafl | 1 |
| Trf2 | TBPL1 | | 0.46 | TBP-like protein | 1 |
| His2B:CG3387 | His2B:CG33870: HIST2 | His2B:CG33870: HT | 0.48 | H2B | 1 |
| Atu | LEO1 | LEO1 | 0.55 | Leo1 Paf complex | 1 |
| Chro | | | 0.6 | chromatin architecture | 1 |
| trr | | | 0.66 | K4 methyltransferase | 1 |
| CG1832 | | | 0.25 | transcription factor | 2 |
| Dp | TFDP2 | | 0.3 | Transcription factor related to E2F | 2 |
| Bx | LMO1 | | 0.33 | transcription factor | 2 |
| zfh1 | ZEB1 | | 0.39 | zinc-finger transcription factor | 2 |
| D19A | | | 0.52 | transcription factor | 2 |
| D19B | | | 0.52 | transcription factor | 2 |
| nei | EP300 | | 1.33 | CBP/p300 | 3 |
| E(bx) | BPTF | | 1.51 | Nurf301 | 3 |
| CG16975 | L3MBTL2 | | 1.73 | transcription factor repressor | 3 |
| dom | | SWR1 | 1.73 | SWR1 ATP-dependent helicase | 3 |
| CG8211 | INTS2 | | 1.85 | Integrator complex RNA Pol II associated 3' end formation | 3 |
| Nipped-A | TRRAP | TRA1 | 1.85 | TRA1 | 3 |
| caz | FUS | | 1.99 | TFIID complex | 3 |
| srp | | | 1.95 | DNA-binding TF | 4 |
| lilli | | | 2.03 | DNA binding TF involved in neural development similar to AFF4 | 4 |
| kay | | | 2.31 | DNA binding TF involved in neural development dpp pathway | 4 |
| hoip | NHP2L1 | SNU13 | 0.25 | mRNA splicing/export | 5 |
| Pcf11 | | | 0.29 | mRNA cleavage factor | 5 |
| Cbp80 | NCBP1 | | 0.33 | RNA cap-binding protein | 5 |
| Upf1 | UPF1 | NAM7 | 0.34 | helicase involved in nonsense-mediated decay | 5 |
| Upf2 | UPF2 | NMD2 | 0.34 | nonsense-mediated decay | 5 |
| Hel25E | BAT1 | SUB2 | 0.43 | Sub2 helicase involved in TREX complex | 5 |
| Smg1 | SMG1 | | 0.47 | nonsense-mediated decay and microRNA function | 5 |
| gfzf | | | 0.11 | glutathione transferase activity | 6 |
| CycE | CCNE1 | | 0.26 | cyclin E | 6 |
| CG6015 | CDC40 | | 0.27 | Splicing factor | 6 |
| CG8878 | | | 0.36 | kinase activity | 6 |
| dup | CDT1 | | 0.36 | DNA replication factor | 6 |
| foi | SLC39A10 | | 0.36 | zinc ion transporter | 6 |
| dos | | | 0.39 | SH2/SH3 protein receptor | 6 |
| CG5514 | | | 0.41 | putative cell wall component | 6 |
| puc | DUSP10 | | 0.43 | phosphatase involved in dorsal closure | 6 |
| raw | | | 0.43 | autophagic cell death | 6 |
| CG11451 | | | 0.44 | cell communication | 6 |
| l(2)05070 | PSMB6 | PRE3 | 0.44 | proteosome/endopeptidase | 6 |
| cdc2 | CDC2 | | 0.48 | cdc2 | 6 |
| cul-4 | CUL4B | | 0.48 | ubiquitin-ligase | 6 |
| CG10486 | | | 0.52 | membrane cation transport | 6 |
| CG31258 | | | 0.52 | No known function | 6 |
| CG32369 | | | 0.52 | proteolysis | 6 |
| CG8636 | | | 0.52 | mitotic spindle formation | 6 |
| eIF3-S9 | EIF3S9 | PRT1 | 0.54 | translation initiation factor | 6 |
| dmt | | | 0.57 | nuclear nervous system development | 6 |
| eIF3-S10 | EIF3S10 | RPG1 | 0.64 | translation initiation factor | 6 |
| CG31211 | C6orf111 | | 0.65 | No known function | 6 |
| geminin | | | 0.65 | repressor of DNA replication | 6 |
| CG5146 | | | 0.66 | No known function | 6 |
| Rho1 | RHOC | | 1.62 | GTPase activity | 6 |
| CG3363 | | | 2.86 | No known function | 6 |
| msl-1 | | | 0.23 | MSL1 | MSL |
| msl-2 | | | 0.23 | MSL2 | MSL |
| msl-3 | MSL3L1 | | 0.39 | MSL3 | MSL |
| mle | DHX9 | | 0.42 | mle | MSL |
| mof | MYST1 | | 0.52 | mof | MSL |

Class 1: General transcriptional regulators that activate

Class 2: Proteins that have potential specific DNA binding activity and activate our reporter

Class 3: General transcriptional regulators that repress our reporter

Class 4: Proteins that have potential specific DNA binding activity and repress our reporter

Class 5: Proteins that regulate RNA metabolism

Class 6: Proteins that are previously unstudied and/or have functions unrelated to transcription or RNA metabolism