# Supplemental Table S1

| transport | development | nucleic acid metabolism | signal transduction | carbohydrate metabolism | folate metabolism |
|---|---|---|---|---|---|
| Ca- α 1D | ash2 | CG3800 | activin- β | CG12030 | CG12116 |
| CG11642 | Ca- α 1D | Clp | CG14527 | CG33138 | Nmdmc |
| CG11739 | CG12896 | qkr58E-3 | CHORD | CG4484 | **other/unknown** |
| CG13848 | CG32384 | Tis11 | drpr | CG5171 | CG11275 |
| CG33214 | CG9650 | CG2277 | Fsh | CG6126 | CG11395 |
| CG4484 | cpo | Ent2 | fus | LCBP1 | CG12269 |
| CG4822 | cpo | Reg-3 | GstD10 | sll | CG12868 |
| CG4822 | Crc | **(transcription)** | Hn | CG15096 | CG13215 |
| CG5885 | drpr | ab | Hsp83 | CG6218 | CG13315 |
| CG6126 | E(bx) | Adf1 | Ilp3 | CG9886 | CG13694 |
| CG8051 | fru | ash2 | lgs | ATPCL | CG13845 |
| CG8468 | kn | CG1102 | Rel | CG1213 | CG13901 |
| CG8498 | lgs | CG9650 | spz | CG15096 | CG14084 |
| CG8790 | mbf1 | Dsp1 | wun2 | CG3036 | CG1416 |
| Crc | oc | E(bx) | Tis11 | CG8036 | CG14253 |
| Lsp1 | px | Ell | Clk | Gasp | CG14693 |
| mAcR-60C | rost | Ets65A | Hmgs | Nmdmc | CG15917 |
| sll | SelD | HmgD | Csk | Sodh-1 | CG17032 |
| CG15096 | Sox21b | HmgZ | Fsh | Tal | CG17230 |
| Ndae1 | SoxN | kn | inx2 | **cytoskeleton** | CG17233 |
| CG6600 | sr | Max | Jheh2 | form3 | CG18600 |
| CG10237 | Sry-delta | mbf1 | ogre | Hsp83 | CG2081 |
| CG17108 | Vhl | Rel | smp-30 | sll | CG31781 |
| CG31085 | wun2 | Sox102F | TpnC25D | Vhl | CG3224 |
| glob1 | Hmgs | Sox21b | **(odorant binding)** | jbug | CG3226 |
| CG10950 | vri | SoxN | Or92a | Myo61F | CG4786 |
| CG1213 | B4 | sr | Obp99a | Skeletor | CG6503 |
| CG3036 | CG13101 | Sry-delta | Obp56h | spir | CG6985 |
| CG3823 | CG1942 | Tudor-SN | **(synaptic transmission)** | **behavior** | CG7049 |
| CG5404 | Dr | Clk | mAcR-60C | Adf1 | CG7607 |
| CG8451 | inx2 | tim | cpo | Dat | CG8044 |
| Ork1 | Kr-h1 | vri | cpo | Ddc | CG8187 |
| **defense/immune response** | Myo61F | Kr-h1 | fru | drpr | CG8408 |
| CG12896 | ogre | Dr | GRHR | fru | CG9511 |
| CG6429 | smp-30 | **protein folding** | CG5618 | Hsp83 | CG9689 |
| Cyp6g1 | W | Cct5 | Ork1 | oc | CG9837 |
| GstD10 | **exoskeleton** | CG8258 | **steroid metabolism** | ple | CR31541 |
| Hop | CG4784 | Crc | Cyp313a1 | ogre | CG17124 |
| Hsc70Cb | LCBP1 | Hop | Cyp4e3 | **(circadian rhythm)** | CG3348 |
| Hsp83 | Gasp | Hsc70Cb | Cyp6a8 | Clk | CHkov1 |
| MP1 | **lipid/fatty acid metabolism** | Hsp83 | mdy | tim | CG10175 |
| psh | CG33110 | DnaJ-1 | mdy | vri | CG10553 |
| Rel | CG3488 | **proteolysis** | Ugt35a | **protein translation** | CG10560 |
| spz | CG4822 | As | CG7724 | bru-3 | CG11891 |
| DnaJ-1 | CG4822 | CG1102 | Cyp18a1 | CG11642 | CG13631 |
| Ugt35a | CG5009 | CG11459 | Cyp6a21 | CG32281 | CG14275 |
| CG3759 | CG5508 | CG11842 | Hmgs | l(2)01424 | CG1441 |
| Ugt35b | CG8498 | CG14523 | Ugt35b | mdy | CG17325 |
| CG10345 | CG9009 | CG14527 | Cyp305a1 | mdy | CG5156 |
| CG17575 | wun2 | CG14528 | **amino acid metabolism** | **takeout family** | CG7267 |
| CG9027 | CG33110 | CG9377 | CG32281 | CG7079 | CG10479 |
| CG9649 | CG3376 | CG9649 | CG6188 | CG11852 | CG11347 |
| Eip71CD | Pdh | l(2)05070 | Dat | CG14661 | CG13360 |
| GstE2 | Cct2 | oc | Ddc | CG5945 | CG13510 |
| Jheh2 | CG11407 | psh | Faa | to | CG31076 |
| Mdr49 | CG5853 | ref(2)P | Hn | CG31207 | CG32548 |
| Ugt86Da | CG6409 | UbcD4 | SelD | CG5867 | CG5237 |
| Ugt86De | CG8093 | Vhl | CG5793 | **metabolism (other)** | CG5399 |
| **protein modification** | CG9914 | CG5618 | Fmo-1 | CG12162 | CG6836 |
| Nat1 | v(2)k05816 | CG5798 | CG11796 | CG14946 | CG7047 |
| EDTP | **muscle contraction** | Dip-B | CG15093 | Cyp4d21 | CG7510 |
| CaBP1 | Ca- α 1D | CG16749 | CG9363 | CG3609 | CG8343 |
| CG8485 | Scp2 | CG4259 | Fmo-2 | CG3699 | CG9119 |
| Csk | CG4928 | CG6465 | hgo | Cyp12d1-p | CG9483 |
| **1-carbon compound metabolism** | CG2121 | CG9673 | ple | Cyp12d1-p | CG9812 |
| CG3940 | CG13366 | | CPTI | | |
| CG6074 | TpnC25D | | mnd | | |