Table S17

Maternal genes 10-fold degraded

- Gene ID mixed annotation (+ indicates sequence confirmation)
- + qua actin_binding * qua * QUAI_DROME VILLIN-LIKE PROTEIN QUAIL villin homolog qua * 9e-18 similar to gelsolin; cDNA EST comes CG6433 from this gene * 3e-71 putative actin-bin [GELS // GELSOLIN] CG6433 LD42165 36C4-36C4 ID:101C8
- + enzyme * 1e-98 PERO_DROME PEROXIDASE PRECURSOR myeloperoxidase (EC 1.11. * 6e-87 similar to eosinophil peroxidase and CG7660 myelo-peroxydase * 2e-65 PERT_MOUSE THY [ANPEROXIDASE // PEROXIDASE_3] CG7660 LD43174 90C-90C ID:102B3
- CG17469 + unknown * 1E-123* * CG17469 LD45277 102E2-102E3 dup:2/2 ID:104B4
- + chaperone * FK506-binding protein FKBP51(aa) * 6e-20 FKBP_YEAST FK506-BINDING PROTEIN (FKBP) (PEPTIDYL-PROLYL CISTRANS ISOMERASE) (P * 6e-24 FKB2_DROME KD FK50 [TPR_REGION // FKBP // FKBP_PPIASE_1 //] CG4535 LD47530 30E1-30E1 CG4535 dup:2/2 ID:106E9
- CG18543+ unknown * CG18543 LD47919 66C12-66C12 ID:107B1
- + unknown * 5e-20 YNZ5_YEAST HYPOTHETICAL 17.1 KD PROTEIN IN SIP3-MRPL30 INTERGENIC REGION * 3e-12 RNA helicase * CG3800 2e-25 cellular nucleic acid binding protein cl [ZF_CCHC // zf-CCHC] CG3800 LD48005 59B6-59B6 ID:107C1
- CG5904 + islet mitochondrial antigen CG5904 LP03542 ID:108F8
 - + electron_transfer * thioredoxin(aa) * 8e-20 TRX1_YEAST THIOREDOXIN I (TR-I) thioredoxin I yeast (Sacc * 1e-17 THIO_DROME
- CG3864 THIOREDOXIN (DEADHEAD PROTEIN) thioredoxin-I [THIOREDOXIN // THIOREDOXIN_2 // thiored] CG3864 30C-30C2 ID:115A11
- + receptor * 5e-14 cDNA EST comes from this gene; cDNA EST co * 3e-35 peripheral-type benzodiazepine receptor isoquinoline-binding CG2789 protein mouse * 1e-35 benzod CG2789 GH02075 21C6-21C6 dup:2/2 ID:30H12
- + Uch endopeptidase * DMUBICTHG_3 Uch * 3e-19 UBL1_YEAST UBIQUITIN CARBOXYL-TERMINAL HYDROLASE YUH1 (UBIQUITIN THIOLESTERASE) * 1e-130 UBL_DROME UBIQUITIN CARBOXYL-TERMIN [UCH // UCH_1 // UBCTHYDRLASE] CG4265 GH02396 23D1-CG4265 23D1 dup:1/2 ID:31B8
- + enzyme * 3-phosphoglycerate dehydrogenase(aa) * similar to D-3-Phosphoglycerate dehydrogenase; cDNA EST comes from this CG6287 gene; cDNA EST comes from this gene; [2-Hacid DH // D 2 HYDROXYACID DH 1 // A] CG6287 GH03305 32D5-32D5 ID:31H4
- + electron_transfer * 3e-17 cytochrome b5 * 1e-18 Similarity to Human cytochrome b5 (SW:CYB5_HUMAN); cDNA EST EMBL:D * 5e-18 CYB5_MOUSE CYTOCHROME B5 * 7e-22 cytochrome b [CYTOCHROMEB5 // CYTOCHROME_B5_2 // NLS_] CG3566 GH05526 5E1-5E1 CG3566 ID:33F10
- + unknown * 1E-178* 1e-105 inserted at base Both 5' and 3' ends of P element Inverse PCR * CG6770 GH05738 33B12-33B12 CG6770 ID:33H4
- + enzyme * 3e-40 4-nitrophenylphosphatase (EC 3.1.3.41) yeast (Saccharomyces cerevisiae) * 6e-26 by content; 1-meth * 4e-52 CG5567 contains similarity to 4-nitrophe CG5567 GH06744 75A4-75A4 ID:34G7
- + BEAF-32 DNA_binding * boundary element-associated factor, 32k fruit fly (Drosophila melanogaster)(aa) * 1e-146 DMBEAF32A_2 BEAF-CG1015932 * boundary element associated factor [NLS BP] CG10159 GH10592 51C3-51C3 ID:38B2
- + Thiolaseenzyme * Thiolase * thiolase(aa) * 3e-37 THIL_YEAST ACETYL-COA ACETYLTRANSFERASE (ACETOACETYL-COA THIOLASE) CG4581 * 1e-140 YKA3_CAEEL HYPOTHETICAL 47.9 KD PROTEIN [thiolase] CG4581 GH13256 60A6-60A6 dup:2/2 ID:40E2
- CG1721 + Pglym78 enzyme * phosphoglyceromutase fruit fly (Drosophila melanogaster)(aa) * DMPGLY_4 Pglym78 * 7e-48 pdb|4PGM|A Chain A,

- Saccharomyces Cerevisiae Phosphoglycer [PGAM // PG_MUTASE] CG1721 GH13304 99A1-99A1 dup:2/2 ID:40E5
- + aret RNA_binding * aret * 8e-06 polyadenylate-binding protein * 1e-148 testis-specific RNP-type RNA binding protein * 2e-29 elav-type CG6319 ribonucleoprotein coded IRBD // HUDSXLRNA // rrml CG6319 33D-33D4 dup:3/3 ID:44D5
- + unknown * 1e-07 ADRP_MOUSE ADIPOSE DIFFERENTIATION-RELATED PROTEIN (ADRP) * * [ATP_GTP_A] CG9057 13A11-
- CG9057 13A11 dup:2/2 ID:46D11
- + motor_protein * 7e-09 by content; 1-meth * 2e-07 homeotic most like HMPB_DROME: homeotic proboscipedia protein * 9e-07 Williams-
- CG8677 Beuren syndrome deletion transcript [PHD // NLS_BP // ATP_GTP_A] CG8677 LD34730 39C1-39C1 dup:5/5 ID:49E10
- + structural_protein * Similarity to Yeast YIP1 protein cDNA EST comes from this gene; cDNA E
- + BG:DS00180.8 cell_adhesion * DMTENA_3 Ten-a * DMC901PRT C901 * DMDELTA_4 DI * 3e-20 C901 protein [EGF_2] CG16882 CG16882 GH07717 34E1-34E1 dup:3/4 ID:59H10
- + ligand_binding_or_carrier * DMC30B8 * retinaldehyde-binding protein 1(aa) * tocopherol (alpha) transfer protein (ataxia (Friedreich-like) CG10237 with vitamin E deficiency)(aa) * 62D[CRETINALDHBP // CRAL TRIO] CG10237 GH08711 37E3-37E3 dup:2/3 ID:60H5
- CG12024+ signal_transduction * 5e-25 BAW protein * * [NLS_BP] CG12024 GH08896 62E3-62E3 dup:1/2 ID:61B6
 - + 26/29kD-proteinase * 26,29kDa proteinase(aa) * 8e-61 cysteine proteinase cysteine * 1e-56 predicted using Genefinder; similar to
- CG8947 cathepsin-like protease; cD * 2e-61 cath [THIOL_PROTEASE_CYS // PAPAIN // Peptida] CG8947 70C9-70C9 dup:1/2 ID:61C5 + Nacalphaunknown * 4e-13 EGD2_YEAST EGD2 PROTEIN EGD2 protein yeast (Saccharomyc * 5e-73 alpha NAC * 1e-34 alpha
- CG8759 NAC/1.9.2. protein alpha-NAC, non-musc * 1e-34 Nasce CG8759 GH11940 49C2-49C2 dup:2/2 ID:63H12
- + motor_protein * receptor-associated protein(aa) * 9e-14 predicted using Genefinder; Similarity to Human alpha-2-macroglobu * 2e-16 CG8507 heparin binding protein * 5e-18 CG8507 GH16343 86D1-86D1 dup:3/3 ID:68E5
 - + enzyme * similar to aspartate aminotransferase(aa) * 1e-99 aspartate aminotransferase cerevisiae, Peptide Partial, * 1e-157 similar to
- CG4233 aspartate aminotransfe [aminotran_1 // AA_TRANSFER_CLASS_1 // T] CG4233 GH20337 22B8-22B8 dup:2/2 ID:72F2
 + fu12 enzyme * 1-ACYL-SN-GLYCEROL-3-PHOSPHATE ACYLTRANSFERASE(aa) * PUTATIVE 1-ACYL-SN-GLYCEROL-3PHOSPHATE ACYLTRANSFERASE T06E8.1 (1- AGP ACYLTRANSFERASE) (1-AG [GLYCEROL_ACYLTRANS] CG17608 GH26888 29C4CG1760829C4 ID:80F12
 - + yin transporter * opt1 long(aa) * 8e-17 PTR2_YEAST PEPTIDE TRANSPORTER PTR2 (PEPTIDE PERMEASE PTR2) * 8e-74 high-
- CG2913 affinity peptide transporter * 2e-06 cAMP inducible p [PTR2 // PTR2_1 // PTR2_2] CG2913 GH27264 4A1-4A1 dup:2/2 ID:81B12 + Hsp27 chaperone * DMHSP27G_3 Hsp27 * 1e-118 HS27_DROME HEAT SHOCK PROTEIN heat shock protein f * 3e-13 Contains similarity to Pfam domain: (HSP20), Score=130.7, * 2 [TONB_DEPENDENT_REC_1 // HSP20 // ACRYST] CG4466 GM13686 67B2-67B2 CG4466 ID:83A12
- + exu RNA_binding * Exuperantia (exu) protein fruit fly (Drosophila melanogaster)(aa) * exu * 1e-158 exuperantia protein fruit fly CG8994 (Drosophila virilis) * exu [LECTIN LEGUME BETA] CG8994 LD26657 57B2-57B2 ID:85G4
- CG8180 + unknown * 1E-178* * [ANTIFREEZEI] CG8180 LD38554 52A4-52A4 dup:1/2 ID:97G8
- + unknown * 5e-40 prediabetic NOD sera-reactive autoantigen muscul * 5e-10 IVR-like protein * IVR-like protein * [TPR_REGION // CG14444TPR_REPEAT] CG14444 LD39177 6C1-6C1 dup:3/3 ID:98D4
- CG5194 + unknown * CG5194 LD39537 66F1-66F1 ID:98F8
- CG4600 + enzyme * 3-KETOACYL-COA THIOLASE MITOCHONDRIAL (BETA-KETOTHIOLASE) (ACETYL-COA ACYLTRANSFERASE)

 $(MITOCHONDRIAL\ 3-OXOACYL-COA\ THIOLASE)(aa)\ *\ 8e-54\ pdb|1AFW|A\ [thiolase\ //\ THIOLASE_1\ //\ THIOLASE_2\ //]\ CG4600\ LD40538\ 33A1-33A1\ dup:1/2\ ID:99F6$