Table S27

male germline-List of genes identified as follows:

one-tailed t-test male vs tudor male (P<.01 and male data > male tudor data)

genes in both male and female germline are excluded from this list

- CG12756+ unknown * gene product(aa) * 8e-09 hypothetical protein * * CG12756 LD42148 64E3-64E3 ID:101C5
- CG15634+ unknown * CG15634 LD42284 25A4-25A4 ID:101D10
- + enzyme * unknown(aa) * PROBABLE GMP SYNTHASE (GLUTAMINE-HYDROLYSING) (GLUTAMINE AMIDOTRANSFERASE) (GMP SYNTHETASE)(aa) * guanine-monophosphate synthetase; GM [CPSGATASE // GMP_synt_C // ANTSNTHASEII] CG9242
- CG9242 LD42771 39B4-39B4 dup:2/2 ID:101G2
- CG11770+ unknown * CG11770 LD43682 44F9-44F9 dup:2/2 ID:102E12
- CG17260+ nucleic acid binding * [ZF RING] CG17260 LD44813 23C5-23C5 ID:103F8
 - + endopeptidase * energy-dependent regulator of proteolysis(aa) * 9e-61 YB77_YEAST HYPOTHETICAL 57.9 KD PROTEIN IN
- CG4538 PDB1-ABD1 INTERGENIC REGION * 1e-104 Similarity to [AAA // ATP_GTP_A] CG4538 LD45279 92B9-92B9 dup:3/3 ID:104B5
- + enzyme * similar to tumor suppressor p33ING1; similar to * Unknown protein(aa) * 5e-17 YNJ7_YEAST HYPOTHETICAL 37.0 KD CG9293 PROTEIN IN RAS2-YPT53 INTERGENIC REGI [PHD // NLS BP] CG9293 LD46333 34B6-34B6 ID:105C2
- + qkr58E-3RNA_binding * QKR58E-3(aa) * qrk58E-3 * 7e-13 hypothetical protein YLR116w yeast (Saccharomyces cerevisiae) (* 5e-21 CG3584 similar to GAP-associated tyrosine phosph [KH-domain // KH_DOMAIN] CG3584 LD46502 58D7-58D8 ID:105D8
- + motor_protein * DMBNBR_2 bnb * mu2 * 1e-07 RRP1_DROME RECOMBINATION REPAIR PROTEIN (DNA-(APURINIC OR CG14896 APYRIMIDINIC SITE) L * 2e-21 C. elegans UNC-89 CG14896 LD46725 89C4-89C4 dup:1/3 ID:105F5
- + Tim10 unknown * small zinc finger-like protein(aa) * small zinc finger-like protein(aa) * small zinc finger-like protein(aa) * 5e-10 CG9878 hypothetical protein YHR004c-a CG9878 LD46744 57F8-57F8 dup;2/2 ID:105F7
- + peptidase * VITELLOGENIC CARBOXYPEPTIDASE PRECURSOR(aa) * Probable serine-type carboxypeptidase (EC 3.4.16.1); Ybr139wp(aa) * Similarity to Human lysosomal pro [CARBOXYPEPT_SER_SER // CARBOXYPEPT_SER_] CG4572 LD47549 92B6-CG4572 92B6 ID:106F2
- CG12104+ unknown * 4e-11 protein * protein * CAGF9 * [HMG // HMG_box] CG12104 LP01188 62A-62A ID:107D7
- + Cdlc2 motor_protein * 8kd dynein light chain(aa) * Cdlc1 * dynein light chain 5(aa) * 1e-21 DYL1_YEAST DYNEIN LIGHT CHAIN 1, CG5450 CYTOPLASMIC dynein lig [Dynein_light // DYNEIN_LIGHT_1] CG5450 LP02196 22A-22A ID:108A1
- + receptor * putative mitochondrial inner membrane protein import receptor(aa) * MITOCHONDRIAL IMPORT INNER MEMBRANE CG11779TRANSLOCASE SUBUNIT TIM44 PRECURSOR(aa) * P CG11779 91F4-91F4 dup:1/2 ID:108A11
- CG7484 + CG7484 ID:108A12
- + ligand_binding_or_carrier * 2e-08 galactose specific C-type lectin * 3e-10 lectin lambda * 7e-13 mannose receptor, C type
- CG9134 MACROPH * 3e-08 C-type lectin-like protein [lectin_c // C_TYPE_LECTIN_1 // C_TYPE_L] CG9134 LP02252 61F4-61F4 ID:108A3
- CG18317+ unknown * CG18317 LP02521 22B1-22F3 ID:108B1
- CG2147 + unknown * [ATP_GTP_A] CG2147 LP02728 7D18-7D18 ID:108B10
- + P5cr enzyme * 6e-29 PROC_YEAST PYRROLINE-5-CARBOXYLATE REDUCTASE (P5CR) (P5C REDUCTASE) * 1e-157 pyrroline CG6009 5-carboxylate reductase * 3e-52 similar to pyrroline-5- [P5CR] CG6009 LP02537 91E4-91E4 ID:108B2

- + sktl enzyme * phosphatidylinositol 4-phosphate 5-kinase(aa) * skittles * 7e-28 'multicopy suppressor of stt4 mutation (MSS4)' cerev * CG9985 phosphatidylinositol 4-phosp [NLS BP] CG9985 LP03320 57B6-57B6 dup:2/2 ID:108E11
- + enzyme * contains similarity to enoyl-CoA hydratases/isomerases Score=59.1, E=3.3e-16, N=1)(aa) * 3e-51 Similar to enoyl-coA CG5844 hydratase * 2e-15 ECH1_MOUSE PRO [ECH] CG5844 LP03547 87B15-87B15 ID:108F9
- + chaperone * DMTIDT4M_4 I(2)tid * 1e-22 MDJ1_YEAST MDJ1 PROTEIN PRECURSOR heat shock protein MDJ1 * 2e-42 Tid56 protein * 2e-42 YLW5_CAEEL HYPOTHETICAL 105.9 K[DnaJ_CXXCXGXG // DNAJ_1 // DnaJ // DNAJ] CG7387 LP05202 66B13-66B13 CG7387 dup:1/2 ID:109C10
- + endopeptidase * COAGULATION FACTOR X PRECURSOR (STUART FACTOR)(aa) * chymotrypsinogen B1(aa) * coagulation factor G beta chain precursor - horseshoe crab (Tachypleu [trypsin // CHYMOTRYPSIN // TRYPSIN_SER] CG10764 LP05421 54C3-CG1076454C3 ID:109D4
- + transcription_factor * DMBTDGN_2 btd * 3e-18 ODD_DROME ODD-SKIPPED PROTEIN odd * 5e-19 Similarity to Drosophila scratch neuronal zinc-finger transcriptio * 2e-35 Z13 prote [zf-C2H2 // ZINC_FINGER_C2H2 // ZINC_FIN] CG6911 LP05442 4D1-4D1 CG6911 ID:109D5
- + RNA_binding * ventral antigen 1(aa) * astrocytic NOVA-like RNA-binding protein(aa) * 0.00000003* 2e-13 similar to RNA binding CG8144 protein; cDNA EST comes from th [KH-domain // KH_DOMAIN // ANTIFREEZEI] CG8144 LP05458 85D-85D ID:109D7
- + ppl enzyme * predicted using Genefinder(aa) * 5e-19 GCSH_YEAST GLYCINE CLEAVAGE SYSTEM H PROTEIN PRECURSOR F CG7758 * 3e-28 predicted using Genefinder * 7e-32 glycine c [LIPOYL] CG7758 LP05579 78C8-78C8 dup:2/2 ID:109E4
- + Cyt-c1 electron_transfer * CYTOCHROME C(aa) * 1e-32 pdb|1YCC| Cytochrome C (Isozyme 1) (Reduced) Saccharomyces cerevisia * 2e-58 CYC1_DROME CYTOCHROME C-1 cytochrome c[CYTCHRMECIAB // cytochrome_c // CYTOCHR] CG13263 LP05614 36A7-CG1326336A7 dup:2/2 ID:109E5
- + actin_binding * 5e-06 alternatively spliced form * 9e-06 alpha-actinin * protein * 9e-06 alpha-actinin rabbit (fragment) muscle alp CG11685 [CH_DOMAIN] CG11685 LP05986 85F7-85F7 ID:109F10
- CG6968 + unknown * [NLS_BP] CG6968 LP06178 78D-78D dup:1/3 ID:109G3
- + PpN58A protein_phosphatase * serine-threonine protein phosphatase(aa) * PpN58A * 1e-108 PP12_YEAST SERINE/THREONINE PROTEIN PHOSPHATASE PP1-2 pho * 1e-174 serine-threonine prot[PHOSPHO_ESTER // STPHPHTASE // SER_THR_] CG3245 CG3245 SD01703 58B1-58B1 ID:113A9
- + transcription_factor * DMADF1A_2 Adf1 * 6e-05 ADF1_DROME TRANSCRIPTION FACTOR ADF-1 (ADH DISTAL FACTOR 1) * CG9437 2e-67 inserted at base Both 5' and 3' ends of P element Inverse [NLS_BP] CG9437 SD02118 57C5-57C5 dup:2/2 ID:113E10 CG13714+ unknown CG13714 SD02453 ID:114B7
- + transcription_factor_binding * conserved hypothetical protein.(aa) * predicted using Genefinder; Similarity to Human erythrocyte
 CG2970 band integral membrane protein (SW:BAN7_HUMAN)(aa [Band_7 // STOMATIN] CG2970 SD03319 60A12-60A13 dup:2/2 ID:115E8
 + Es2 enzyme * HYPOTHETICAL 58.3 KD PROTEIN F42H10.7 IN CHROMOSOME III(aa) * ES2 protein(aa) * ES2 protein(aa) * ES2
- CG1474 CG1474 SD03464 7E7-7E7 ID:115G8
- CG10192+ translation_factor CG10192 SD03848 ID:116C4
- CG11807 + CG11807 SD03973 dup:1/2 ID:116E2.2
- CG1472 + unknown CG1472 SD04292 dup:2/2 ID:117A12.2

- CG5417 + CG5417 SD04331 dup:2/2 ID:117B6.2
 - + enzyme * 7e-08 RECQ helicase homolog * 2e-25 TNR3 SCHPO THIAMIN PYROPHOSPHOKINASE (TPK) (THIAMIN KINASE) *
- CG14721 putative thiamin pyrophosphokinase * YloS protein CG14721 SD04406 86F6-86F6 dup:2/3 ID:117C3
- CG9531 + CG9531 SD04586 dup:3/3 ID:117E5
- CG14800 + no blast hits pioneer protein? CG14800 SD04906 dup:1/2 ID:118A8
- CG2385 + CG2385 SD05054 dup:1/2 ID:118C5
- CG13223+ transporter CG13223 SD05296 dup:2/2 ID:118F1.2
- CG10254+ enzyme CG10254 SD05555 dup:4/4 ID:119A2.2
 - + cell_cycle_regulator * cullin 2(aa) * 5e-70 CC53_YEAST CELL DIVISION CONTROL PROTEIN (CULLIN A) * 1e-115
- LI19_DROME LIN-19 HOMOLOG PROTEIN lin19 protein * 1e-14[CULLIN_2 // NLS_BP // Cullin // CULLIN_] CG1512 SD05653 39E5-CG1512 39E5 dup:3/3 ID:119B10
 - + signal_transduction * AND-1 protein(aa) * bgr;'Cop * 6e-29 Met30p * 3e-28 Slimb [GPROTEINBRPT // GPROTEINB //
- CG17437 WD40_REGIO] CG17437 3A8-3A8 dup:3/3 ID:119D12.2
- CG7958 + unknown CG7958 SD05917 dup:2/2 ID:119E12
- CG11526+ pioneer protein with human homolog (KIAA1170) CG11526 SD05886 dup:2/2 ID:119E8
- CG18019+ CG18019 SD06401 dup:2/2 ID:119G12.2
- CG11860 + BG:DS07851.11 unknown * CG11860 35C4-35C4 dup:2/2 ID:119H7
- + unknown * 3e-05 inserted at base Both 5' and 3' ends of P element Inverse PCR * * [PRO_RICH] CG12305 SD06514 52C4-52C5 CG12305 dup:7/8 ID:119H8
- CG2103 + enzyme CG2103 SD10722 dup:1/2 ID:125F3.2
- CG8979 + enzyme_inhibitor * 7e-15 proteasome inhibitor hPl31 subunit * * CG8979 GH01278 48D7-48D7 ID:30B10
- + motor_protein * limited similarity with some myosins; cDNA EST comes from this gene; cDNA EST comes from this gene; cDNA
- CG5886 EST yk392c1.3 comes from this gene; cDNA ES [NLS_BP] CG5886 GH01188 96F5-96F5 ID:30B6
- CG10589+ unknown * [NLS_BP] CG10589 GH01788 78A-78A ID:30F11
- + unknown * dipeptidyl peptidase III(aa) * 1e-109 hypothetical protein YOL057w yeast (Saccharomyces cerevisiae) * 1e-105 similar CG7415 to WD domain, G-beta repeat; CG7415 GH01916 84F14-84F15 dup:1/2 ID:30G7
- CG12860+ unknown * [NLS_BP] CG12860 GH02210 51B11-51B11 ID:31A8
- + enzyme * hypothetical protein(aa) * TUBULIN--TYROSINE LIGASE (TTL)(aa) * Ybr094wp(aa) * 2e-10 ORF2 [NLS_BP] CG11201 CG11201 GH02545 27A1-27A1 ID:31C9
 - + unknown * actin-fragmin kinase(aa) * putative protein kinase(aa) * HYPOTHETICAL 143.1 KD PROTEIN F33C8.1 IN
- CG6758 CHROMOSOME X PRECURSOR(aa) * 4e-10 YG52_YEAST HYP [FBOX_DOMAIN] CG6758 GH02866 58C5-58C5 dup:2/2 ID:31E7
- + translation_factor * Eif4E * 1e-23 IF4E_YEAST EUKARYOTIC TRANSLATION INITIATION FACTOR 4E (EIF-4E) (EIF4E) (MRNA CG8023 CA * 2e-56 IF4E_DROME EUKARYOTIC TRANSLATION INITIATION [IF4E] CG8023 GH04024 66C-66C ID:32D6
- + metabolism * 1e-47 PNPH_YEAST PROBABLE PURINE NUCLEOSIDE PHOSPHORYLASE (INOSINE PHOSPHORYLASE) (PN CG16758 * 3e-51 similar to purine nucleoside phosphorylases * 4e-73 pu [Mtap PNP] CG16758 GH04159 62E6-62E6 dup:5/5 ID:32E5

- + apoptosis_inhibitor * 2e-81 SINA_DROME DEVELOPMENTAL PROTEIN SEVEN IN ABSENTIA devel * 8e-67 seven-in-absentia CG13030 protein homologue-1 * 2e-73 siah-1A protein mouse siah-1A [ZF_RING] CG13030 GH04279 73D1-73D1 ID:32F2
- + unknown * 1e-26 VP28_YEAST VACUOLAR PROTEIN SORTING-ASSOCIATED PROTEIN VPS28 * 3e-40 putative protein * 3e-CG1277076 inserted at base Both 5' and 3' ends of P elemen CG12770 GH04443 44A4-44A4 ID:32G10
- CG6405 + unknown * CG6405 GH04442 33D5-33D5 ID:32G9
 - + transporter * 4e-41 similar to matrin F/G containing C4-type zinc-fingers * 4e-79 PGT HUMAN PROSTAGLANDIN
- CG3811 TRANSPORTER (PGT) prostaglandin tr * 2e-76 PGT RAT PROST CG3811 GH04717 30B10-30B10 ID:33A7
- + transcription_factor * HYPOTHETICAL 68.7 KD PROTEIN ZK757.1 IN CHROMOSOME III(aa) * 7e-22 YN66_YEAST HYPOTHETICAL 39.2 KD PROTEIN IN EGT2-KRE1 INTERGENIC REGION * 7e-13 pr [ZF_DHHC] CG1407 GH04905 46D4-46D6 CG1407 dup:2/4 ID:33C1
- + DNA_repair_protein * REV1 protein(aa) * 2e-56 REV1_YEAST DNA REPAIR PROTEIN REV1 REV1 protein yeast * 2e-78 similar to DNA repair protein (REV1); cDNA EST co[UMUC_DOMAIN // IMS // BRCT_DOMAIN // BR] CG12189 GH05320 61C8-61C8 CG12189 dup:2/2 ID:33E10
- + unknown * 9E-24* 4e-21 0.9-kb RNA transcript * 6e-21 DMRNAPER_2 anon-3B1.2 * per circadian controlled protein precursor CG11853 fruit fly (Drosophila mela CG11853 GH05615 96C4-96C4 ID:33G6
- + motor_protein * 7e-15 cytoplasmic dynein intermediate chain isoform DIC2b * 7e-15 similar to the beta transducin family * 3e-14 CG9313 cytoplasmic dynein intermediate chai [NLS BP // WD40] CG9313 GH05829 57B14-57B14 ID:33H12
 - + transcription_factor * CCR4-ASSOCIATED FACTOR (CAF1)(aa) * 5e-52 POP2 protein * 1e-64 CAF1_CAEEL CCR4-
- CG5684 ASSOCIATED FACTOR (CAF1) cCAF1 protein * 1e-100 POP2 (yeast homolog) CG5684 GH06247 68E4-68F ID:34D3
- CG5538 + unknown * [NLS BP] CG5538 87C-87C dup:1/3 ID:34G11
- + cytoskeletal_structural_protein * hypothetical protein(aa) * BRCA1 associated protein(aa) * HYPOTHETICAL 141.2 KD PROTEIN EEED8.9 IN CHROMOSOME II(aa) * HYPOTHETI[zf-C3HC4 // SPEC_REPEAT // ZF_UBP // ZF] CG5555 GH07062 91F6-91F7 dup:1/2 CG5555 ID:35A7
- CG8701 + unknown * CG8701 GH07855 44B9-44B9 ID:35G4
 - + motor_protein * very strong similarity to C. elegans myosin heavy chain B * 6e-09 MYS1_YEAST MYOSIN-1 ISOFORM (TYPE II
- CG6059 MYOSIN) myosin heavy * 1e-12 nonmuscle myosin [PEROXIDASE_3] CG6059 GH07888 97E8-97E8 dup:1/2 ID:35G7
 - + CH4 * COP9 complex subunit 4(aa) * COP9 complex homolog subunit DCH4(aa) * 5e-12 hypothetical protein YDL147w yeast
- CG8725 (Saccharomyces cerevisiae) * 7e-13 [PCI_DOMAIN // PCI] CG8725 43F8-43F8 dup:1/2 ID:37A9
 - + motor_protein * signaling molecule(aa) * contains similarity to Mus musculus tumor susceptibility protein TSG101 * tumor
- CG9712 susceptibility protein TSG101(aa) * 4e-11 [TPR_REPEAT] CG9712 GH09529 73C4-73C4 ID:37B1
 - + norpA enzyme * contains similarity to phophatidylinositol-specific phosphlipase C, X domains (Pfam: PI-PLC-X.hmm, score:
- CG3620 200.23)(aa) * phospholipase C beta-4(aa) * CG3620 GH10316 4B6-4B6 dup:2/2 ID:37G8
- CG3074 + endopeptidase similar to cysteine protease Peptidase_C1, THIOL_PROTEASE_HIS CG3074 GH10620 dup:1/3 ID:38B6
- CG9133 + unknown * CG9133 GH10732 61F4-61F4 dup:1/3 ID:38C6
- CG7148 + unknown * CG7148 GH10766 79A4-79A5 dup:1/2 ID:38C9
- CG4000 + unknown * [PRO_RICH] CG4000 GH10972 92F2-92F2 dup:3/3 ID:38E6

- CG6456 + unknown * 9e-07 prepro-APGWamide * APGWamide * [NLS BP] CG6456 GH11008 74B-74B dup:2/2 ID:38E7
- CG17567+ unknown * 1E-78* * CG17567 GH11551 37C-37C ID:39A10
- CG12907+ unknown * 1E-145* * [PRO_RICH // NLS_BP] CG12907 GH11521 47A-47A ID:39A8
- + * 1e-29 cDNA EST yk428d5.3 comes from this gene; cDNA EST yk428d5.5 comes * 3e-12 conserved hypothetical secreted CG13865 protein pylori * putative pylori * c CG13865 cyto unknown dup:3/3 ID:39B1
- CG3825 + unknown * CG3825 GH11727 60A14-60A14 dup:1/3 ID:39C1
- + unknown * HSPC017(aa) * 5e-35 YOY9_CAEEL PUTATIVE UBIQUINONE BIOSYNTHESIS METHLYTRANSFERASE ZK652.9 *
- CG121624e-17 apaG protein * APAG_ECOLI APAG PROTEIN apaG prote CG12162 GH11824 83A8-83A9 ID:39C7
- CG9284 + unknown * CG9284 GH11908 58A2-58A2 ID:39D1
- CG10841+ unknown * CG10841 GH12158 87F6-87F6 dup:2/2 ID:39E9
- + peptidase * PUTATIVE AMINOPEPTIDASE ZK353.6 IN CHROMOSOME III(aa) * Chain A, Bovine Lens Leucine Aminopeptidase
- CG4750 Complexed With L-Leucine Phosphonic Acid(aa) * [Peptidase_M17] CG4750 GH12543 53C-53C ID:39G10
- CG6087 + unknown * [NLS_BP] CG6087 GH12689 34A3-34A3 ID:40A9
 - + transporter * similar to ADP/ATP translocase(aa) * 2e-17 probable membrane protein YPL134c yeast (Saccharomyces
- CG4995 cerevisiae) * 1e-32 colt * 1e-58 similar to mito [mito_carr // MITOCARRIER // MITOCH_CARR] CG4995 GH13054 31D8-31D8 ID:40C11
- CG6306 + unknown * CG6306 GH12946 17B1-17B1 ID:40C7
- + peptidase * Chain A, Bovine Lens Leucine Aminopeptidase Complexed With L-Leucine Phosphonic Acid(aa) * 6e-20 YOJ6_CAEEL PUTATIVE AMINOPEPTIDASE ZK353.6 IN CHROM [LAMNOPPTDASE // Peptidase_M17] CG6372 GH13022 68C1-CG6372 68C1 dup:2/2 ID:40C9
- + RNA_binding * 3e-16 RNA-binding protein cabeza fruit fly (Drosophila melanogaster) (* 4e-14 EWS_MOUSE RNA-BINDING CG14718 PROTEIN EWS RNA-binding protein E * 2e-15 TLS [RBD // zf-RanBP // rrm // ZF_RANBP] CG14718 GH13594 86F1-86F1 ID:40G5 CG2046 + unknown * CG2046 GH13924 83C-83C ID:41A10
- + protein_kinase * serine/threonine protein kinase; Cdc7p(aa) * protein kinase Cdc7(aa) * DMSTPK Pk61C * HsCdc7(aa)
- CG5790 [PROTEIN_KINASE_ST // PROTEIN_KINASE_DOM] CG5790 GH13884 36F-36F ID:41A7
- + enzyme * C. elegans glyceraldehyde 3-phosphate dehydrogenase * GLYCERALDEHYDE 3-PHOSPHATE DEHYDROGENASE II (GAPDH II)(aa) * GLYCERALDEHYDE 3-PHOSPHATE DEHYDR [G3PDHDRGNASE // gpdh // GAPDH] CG9010 GH13901 53E6-53E6 CG9010 ID:41A8
- CG7251 + unknown * [NLS_BP] CG7251 GH13914 27D1-27D1 ID:41A9
- + Rca1 unknown * Rca1 * Rca1 * Rca1 * 6e-25 inserted at base 5' end of P element Inverse PCR [NLS_BP] CG10800 GH14043 27C-CG10800 27C ID:41B8
- CG7131 + unknown * CG7131 GH14048 90F7-90F7 ID:41B9
- + MvI unknown * MALVOLIO PROTEIN(aa) * MvI * 7e-42 SMF1_YEAST TRANSPORTER PROTEIN SMF1/ESP1 vacuolar trans * 1e-
- CG3671 140 similar to M. musculus transport system membrane [NATRESASSCMP // ATP_GTP_A] CG3671 GH14215 93B5-93B7 ID:41C8
- + unknown * Ylr193cp(aa) * bromodeoxyuridine-sensitive transcript protein chicken(aa) * hypothetical protein(aa) * CGI-107
- CG9131 protein(aa) CG9131 GH14384 26B2-26B3 ID:41D12
- CG7567 + unknown * CG7567 GH14364 99B5-99B5 ID:41D8

- + electron_transfer * 9e-06 PDI_YEAST PROTEIN DISULFIDE ISOMERASE PRECURSOR (PDI) / DOLICHYL-DIPHOSPHOOLIGOS * 2e-08 PDI DROME PROTEIN DISULFIDE ISOMERASE PRECURSOR (PDI) ITHIOREDOXIN //
- CG3315 THIOREDOXIN 2 // thiored] CG3315 GH14562 4F2-4F2 ID:41F1
 - + eff enzyme * DMUBCD1_2 eff * Ubiquitin conjugating enzyme(aa) * similar to ubiquitin conjugating enzymes(aa) * ubiquitin
- CG7425 conjugating enzyme(aa) [UBIQUITIN_CONJUGAT // UQ_con // UBIQUIT] CG7425 GH14739 88D2-88D2 ID:41G8
 - + BG:DS00797.2 unknown * 6e-38 YMY9 YEAST HYPOTHETICAL 34.0 KD PROTEIN IN CTF13-YPK2 INTERGENIC REGION * 3e-35
- CG9008 putative protein * AAPC PENCL POSSIBLE APOSPORY-ASSOCIATED PR CG9008 GH14910 34D1-34D1 ID:41H8
- CG8136 + unknown * CG8136 GH14973 85B2-85B2 dup:1/2 ID:42A2
- + unknown * Sui1 homolog(aa) * 3e-30 SUI1_YEAST PROTEIN TRANSLATION FACTOR SUI1 translation in * 2e-10 coded for by
- CG17737 C. elegans cDNA cm16g2; weakly similar to pr [SUI1 // SUI1_2] CG17737 GH15018 64A3-64A3 ID:42A3
- enzyme * DMUBCD2_2 UbcD2 * similar to Ubiquitin-conjugating enzymes; cDNA EST comes from this gene(aa) * ubiquitin-conjugating enzyme(aa) * 6e-12 UBCC_YEAST [CRYSTALLIN_BETAGAMMA // UQ_con // UBIQU] CG7220 GH15032 47B7-47B7 CG7220 ID:42A5
- CG8601 + unknown * [ATP GTP A] CG8601 GH15104 65F2-65F2 ID:42A9
- CG2149 + unknown * [NLS_BP] CG2149 GH15120 44B9-44B9 dup:1/2 ID:42B2
- CG2127 + unknown * [EF HAND // NLS BP] CG2127 GH15271 44B9-44B9 ID:42C3
 - + unknown * myelodysplasia/myeloid leukemia factor 1(aa) * Y17G7B.17(aa) * 6e-27 myeloid leukemia factor myelodysplasia/myel
- CG8295 * t(3;5)(q25.1;p34) fusion gene CG8295 LD22883 52D11-52D11 dup:2/2 ID:43D3
- CG2862 + enzyme inhibitor protein kinase C inhibitor HISTRIAD, HIT CG2862 LD22892 dup:2/2 ID:43D6
- + cell_cycle_regulator * lipoic acid synthase; Lip5p(aa) * LIPOIC ACID SYNTHETASE PRECURSOR(LIP-SYN)(aa) * similar to lipoic
- CG5231 acid synthase; cDNA EST yk283b6.3 comes from th CG5231 LD24887 77C1-77C1 ID:43G10
- + unknown * 4e-21 YS48_CAEEL HYPOTHETICAL 66.5 KD PROTEIN ZK177.8 IN CHROMOSOME II (U * 2e-20 MG11_MOUSE
- CG9670 INTERFERON-GAMMA INDUCIBLE PROTEIN MG11 unkn * 4e-20 hy CG9670 LD25913 76A5-76A6 dup:3/3 ID:44B11
- + Klp67A motor_protein kinesin family protein 3B ATP_GTP_A, KINESINHEAVY, KINESIN_MOTOR_D] CG10923 LD27326 dup:2/2 CG10923 ID:44H12
 - + BcDNA:LD22910 endopeptidase * reserved(aa) * 1e-12 UBP9_YEAST UBIQUITIN CARBOXYL-TERMINAL HYDROLASE (UBIQUITIN THIOLESTERASE 9) (* 1e-08 UBPX_CAEEL PROBABLE UBIQUITIN CARBOXYL[UCH_2_2 // UCH_2_3 // PRO_RICH // UCH-2]
- CG15817 CG15817 99A5-99A5 dup:2/2 ID:45A6
 - + phtf unknown * supported by Genscan and several ESTs: and * 3e-12 supported by Genscan and several ESTs: (NID:g2 * *
- CG3268 CG3268 42C3-42C3 dup:1/2 ID:46B11
- CG8073 + enzyme CG8073 ID:46D3
- + RhoGEF3 signal_transduction RHO guanyl-nucleotide exchange factor ATP_GTP_A, GRF_DBL, RhoGEF, SH3 CG1225 LD29915 CG1225 dup:1/2 ID:46F8
- CG12306+ protein_kinase CG12306 ID:47A2
- CG18683+ unknown * CG18683 LD30576 99C6-99C6 ID:47B8
- CG4968 + unknown * predicted using Genefinder; cDNA EST comes from this gene; cDNA EST yk278a11.3 comes from this gene; cDNA

EST yk278a11.5 comes from this gene; cDNA CG4968 LD30683 31D6-31D6 ID:47C3

- + cytoskeletal_structural_protein * actin-like protein; (2 actin domains)(aa) * 2e-71 ARP5_YEAST ACTIN-LIKE PROTEIN ARP5
- CG7940 probable nuclear pro * 3e-18 ACTU_DROME ACTIN-LIKE PROTEIN 13E [NLS_BP // actin] CG7940 90E5-90E6 dup:1/2 ID:47D6
- CG9288 + unknown * [PYRUVATE_KINASE] CG9288 LD32260 87F13-87F13 ID:48B5
- + unknown * 6e-97 N2,N2-dimethylguonasine tRNA methyltransferase c * 1e-105 similar to N2,N2-dimethylguanosine tRNA CG6388 methyltransferase; cDNA ES * 1E-125* 1e-111 [SAM BIND] CG6388 LD33880 33D5-33E ID:49B7
- + ligand_binding_or_carrier * 2e-05 odorant-binding protein Rpal2' palmaru * * [PBP_GOBP] CG13421 GH01026 57A6-57A6 CG13421 ID:54A2
- + unknown * 3e-80 YKL6_CAEEL HYPOTHETICAL 103.8 KD PROTEIN C03C10.6 IN CHROMOSOME III * E03A3.6 * E03A3.7 * CG5237 [AA TRNA LIGASE II 2 // PRO RICH // CYTO] CG5237 GH01039 91F10-91F11 ID:54A4
- CG14981 + unknown * CG14981 GH01116 63F6-63F6 dup:2/2 ID:54B1
- + enzyme * 7e-52 acyl-coenzyme A oxidase * 1e-120 similar to ACYL-COENZYME A OXIDASE, PEROXISOMAL (EC 1.3.3.6)
- CG9707 (PALM * 1e-125 peroxisomal acyl-CoA oxidase * 1e CG9707 GH01226 57D11-57D11 dup:1/3 ID:54C1
- + enzyme * similar to pig tubulin-tyrosine ligase.(aa) * 1e-41 similar to tubulin tyrosine ligase; cDNA EST comes fro * 2e-55 protein * CG167168e-16 TTL_BOVIN TUBULIN [NLS_BP] CG16716 GH01307 56D15-56E1 ID:54C7
 - unknown * PROTEIN 22A3(aa) * 8e-46 YL22_YEAST HYPOTHETICAL 28.3 KD PROTEIN IN PPR1-SNF7 INTERGENIC
- CG8549 REGION * 4e-56 YOM4_CAEEL HYPOTHETICAL 29.1 KD PROTEIN W06E [UPF0023] CG8549 GH01786 66D10-66D10 ID:54G12
- + enzyme * alkaline phosphatase(aa) * MEMBRANE-BOUND ALKALINE PHOSPHATASE PRECURSOR (M-ALP)(aa) * DMALKPHOS_2 Aph-4 * intestinal alkaline phosphatase VII; IAP [ALKALINE_PHOSPHATASE // ALKPHPHTASE //] CG3290 GH01891 CG3290 58C7-58C7 ID:54H10
- CG3955 + unknown * CG3955 GH01933 49F5-49F5 ID:54H12
- + unknown * 4e-11 YMH6_CAEEL HYPOTHETICAL 19.1 KD PROTEIN F58A4.6 IN CHROMOSOME III * * CG12123 GH02722 CG121237E6-7E6 ID:55D12
- CG7366 + unknown * CG7366 GH02649 67E7-67E7 ID:55D4
- + unknown * 2e-22 YKQ5_YEAST HYPOTHETICAL 105.7 KD PROTEIN IN TPK3-PIR1 INTERGENIC REGION * 6e-36 Mcd4p CG6790 homolog * 1e-18 hypothetical protein * unknown protein CG6790 GH02677 86E15-86E15 ID:55D6
- + Chi DNA_binding * neural src interacting protein, long form; NSIP long form(aa) * Nuclear LIM interactor(aa) * short form of CHIP(aa) CG3924 * CHIP(aa) [NLS BP] CG3924 GH02919 60B1-60B1 dup:3/4 ID:55E11
- + unknown * No definition line found(aa) * 3e-46 No definition line found * 1e-140 protein * [CLATHRIN_REPEAT // ZF_RING] CG10144 CG10144 GH02853 65B2-65B2 dup:2/2 ID:55E3
- CG4714 + unknown * 6e-05 centromere protein E CENTROMERIC * 6e-05 CENP-E protein * CG4714 GH03085 50A1-50A1 ID:55F11
- + transcription_factor * LTG19 human(aa) * BLASTX 1.2E-10 Caenorhabditis elegans cosmid ZK354.(dna) * 1e-11 YNK7_YEAST
- CG4913 HYPOTHETICAL 26.0 KD PROTEIN IN CYB5-LEU4 INTERGENIC [NLS_BP] CG4913 GH03493 90E1-90E1 dup:1/2 ID:55H10
- CG8620 + unknown * CG8620 GH03505 65E6-65E6 ID:55H11
- CG14617+ unknown * 0.00000002* 0.00000002* CG14617 GH03511 19F6-20A1 ID:56A1
- CG6272 + transcription_factor C/EBP CCAAT/enhancer-binding protein B_ZIP, NLS_BP CG6272 GH03576 ID:56A6

- CG9803 + unknown * [PRO RICH] CG9803 GH03629 59D6-59D6 ID:56B1
- CG3124 + unknown * CG3124 GH03736 59D4-59D4 ID:56B12
- CG9861 + DNA_binding * [NLS_BP] CG9861 GH03827 59D6-59D6 ID:56C11
 - + bol RNA_binding * bol * 3e-06 NAB4_YEAST NUCLEAR POLYADENYLATED RNA-BINDING PROTEIN NAB4 * 3e-85 boule protein
- CG4760 fruit fly (Drosophila melanogaster) boul * 3e-15 YSO5 [RBD // rrm] CG4760 GH03796 66F5-66F5 dup:1/2 ID:56C6
 - + BcDNA:GH07626 enzyme * p270(aa) * Similar to polyketide synthase.(aa) * FK506 polyketide synthase(aa) * [adh_zinc //
- CG3523 Thioesterase // ACP_DOMAIN | CG3523 GH03816 23D-23D dup:4/9 ID:56C9
- CG15608+ unknown * 2e-06 CGI-62 protein * * [NLS_BP] CG15608 GH03957 53F6-53F7 dup:1/3 ID:56D12
- CG6541 + Mst33A unknown * [NLS BP] CG6541 GH04277 33A3-33A3 ID:56G4
- + dib cytochrome_P450 * 2e-17 cytochrome P-450 fruit fly (Drosophila melanogaster) (fragment) * 1e-10 YS45_CAEEL PUTATIVE CYTOCHROME P450 ZK177.5 IN CHROMOSOME II * 3e-30 [EP450II // p450 // P450 // MITP450 // C] CG12028 GH04745 64A5-64A5 CG12028 ID:57C3
- + CaMKI protein_kinase * CaMKI * calcium/calmodulin dependent protein kinase I(aa) * 1e-28 KCC1_YEAST CALCIUM/CALMODULIN-DEPENDENT PROTEIN KINASE I * 5e-17 Contains si[PROTEIN_KINASE_ST // TYRKINASE // PROTE] CG1495 GH04968 102B7-102B7 dup:7/7 ID:57E2
- + chaperone * DMCYP1_2 Cyp1 * 1e-10 CYPH_YEAST PEPTIDYL-PROLYL CIS-TRANS ISOMERASE (PPIASE) (ROTAMASE) (CYCLOPHILIN) * 1e-14 CYPH_DROME PEPTIDYL-PROLYL CIS-TRANS [pro_isomerase // CSA_PPIASE_2 // ZF_BBO] CG5071 CG5071 GH04969 96E6-96E6 dup:2/2 ID:57E3
- CG15867+ unknown CG15867 GH05072 ID:57F2
- none + none GH05253 ID:57G7
- + transcription_factor_binding * oxidoreductase(aa) * 3e-20 YULF_BACSU HYPOTHETICAL 36.5 KD PROTEIN IN GBSA-TLPB INTERGENIC REGION * YMO1_RHIME HYPOTHETICAL 36.4 KD PROTEIN IN MOC [GFO_IDH_MocA] CG13280 GH05468 36A9-CG13280 36A10 dup:2/2 ID:57H11
- CG5073 + CG5073 ID:57H3
- CG9136 + CG9136 GH05420 ID:57H7
- + RNA_binding * No definition line found(aa) * qrk58E-3 * KEP1(aa) * 8e-05 hypothetical protein YLR116w yeast (Saccharomyces CG9337 cerevisiae) ([KH DOMAIN] CG9337 GH05725 38F1-38F1 ID:58B8
- + sm RNA_binding * DMSMOOTH_2 sm * 4e-20 homologous to human hnRNP L * 5e-22 DMSMOOTH_2 sm * [RBD] CG9218
- CG9218 GH05823 56D11-56E1 dup:1/2 ID:58C12
- + chaperone * DMHSP60_2 Hsp60 * CHAPERONIN HOMOLOG HSP60 PRECURSOR (HEAT SHOCK PROTEIN 60) (HSP-60)(aa) * MITOCHONDRIAL MATRIX PROTEIN P1 PRECURSOR (P60 LYMPHOCYT [CHAPERONINS_CPN60 // TCOMPLEXTCP1 // CH]
- CG2830 CG2830 GH05807 21D1-21D1 ID:58C8
- + unknown * K10D2.3 gene product(aa) * 3e-14 hypothetical protein YOL102c yeast (Saccharomyces cerevisiae) * 4e-07
- CG7163 /match=(desc: * 4e-12 The gene is expresse [PAP // ZINC_FINGER_C2H2] CG7163 GH05885 66C11-66C11 dup:1/3 ID:58D3
- + enzyme * by content; by match; 2-match_description=4-NITROPHENYLPHOSPHATASE.; 2-match...(aa) * similar to N-acetyl-CG2077 glucosamine catabolism(aa) * Similar to CG2077 GH05933 63B3-63B3 ID:58D8

- + cell_adhesion * sdk * DMNRGAA_3 Nrg * fra * 8e-23 LAR_DROME PROTEIN-TYROSINE PHOSPHATASE DLAR PRECURSOR CG8619 (PROTEIN-TYROSINE-PHOSPHAT [ig // FNTYPEIII // fn3] CG8619 GH06134 65E7-65E7 dup:2/2 ID:58F1
- + unknown * predicted using Genefinder; cDNA EST yk268h6.5 comes from this gene; cDNA EST yk465f2.5 comes from this gene; CG10512 cDNA EST yk393g7.5 comes from this gen CG10512 GH06154 78C3-78C4 ID:58F3
- + transcription_factor * 6e-06 TF3A_YEAST TRANSCRIPTION FACTOR IIIA (TFIIIA) transcriptio * 2e-11 zinc finger motif protein *
- CG10631 5e-09 similar to Zinc finger, C2H2 typ[zf-C2H2 // ZINC_FINGER_C2H2 // ZINC_FIN] CG10631 GH06278 38A2-38A dup:1/3 ID:58G1
 - + transporter * organic anion transporter-K2(aa) * solute carrier family (prostaglandin transporter), member 2(aa) * SODIUM-
- CG3380 INDEPENDENT ORGANIC ANION TRANSPORTER (O CG3380 GH06385 58D1-58D1 dup:1/2 ID:58G11
- + EG:BACN32G11.3 unknown * BACN32G11.f * 1e-29 L130_HUMAN KD LEUCINE-RICH PROTEIN (LRP 130) (GP130) le * leucine-rich CG14786 protein human leucine-rich protein sa * BACN32G11.l CG14786 GH06301 2B1-2B1 ID:58G4
- CG5571 + * [G_PROTEIN_RECEPTOR] CG5571 77B6-77B6 dup:1/2 ID:58H1
- CG3748 + unknown * CG3748 GH06504 30B-30B ID:58H11
- CG5089 + unknown * [NLS_BP] CG5089 GH06435 53C8-53C9 dup:2/2 ID:58H4
- CG7557 + unknown * [ATP_GTP_A] CG7557 GH07076 68C3-68C3 ID:59C11
 - + transporter * 9e-43 hypothetical protein YLR348c yeast (Saccharomyces cerevisiae) (U * 1e-74 Oxoglutarate/malate carrier
- CG4323 protein Caenorhabditis elegans * 8e-2 [mito_carr // MITOCARRIER // MITOCH_CARR] CG4323 GH07093 92E7-92E7 ID:59D2
- + RNA_binding * spn-E * 1e-111 hypothetical protein YLR419w yeast (Saccharomyces cerevisiae) (U * 1e-120 MLE_DROME DOSAGE COMPENSATION REGULATOR (MALE-LESS PROTEI [ZF_CCCH // HELICASE // zf-CCCH // ATP_G] CG1582 GH07148 CG1582 9F11-9F12 ID:59D5
- + * TRIACYLGLYCEROL LIPASE (LIPASE, PANCREATIC)(aa) * 2e-16 VIT1_DROME VITELLOGENIN I PRECURSOR (YOLK CG10116 PROTEIN 1) vitell * 2e-19 LIPL_MOUSE LIPOPROTEIN L [lipase] CG10116 73D5-73D5 dup:2/2 ID:59D6
- + enzyme * DMADHA1_9 Adh * DMSCU scu * 7e-17 SP19_YEAST SPORULATION PROTEIN SPS19 (SPORULATION-SPECIFIC PROTEIN SPX19) * 4e-05 3-hydroxyacyl-CoA dehydrogenase [CPSASE_2 // adh_short_C2 // GDHRDH // a] CG2907 GH07691 83B6-CG2907 83B6 ID:59H8
- CG3092 + unknown * CG3092 GH07743 59D-59D dup:1/2 ID:60A5
- CG16887 + BG:DS00941.11 unknown * AAs(aa) * AAs(aa) * CG16887 GH07914 34D4-34D4 dup:2/3 ID:60B12
- CG6332 + unknown * [NLS_BP] CG6332 GH07879 93F14-93F14 dup:1/2 ID:60B8
- + endopeptidase * coded for by C. elegans cDNA CEESC71F; similar to the S25B family of peptidases(aa) * PROTEASOME COMPONENT C7-I (MACROPAIN SUBUNIT C7-I) (MULTI[PROTEASOME_B // PROTEASOME_PROTEASE //] CG17302 GH07971 CG17302 23A3-23A3 dup:1/3 ID:60C10
- CG11018+ unknown * [DNA_LIGASE_A1] CG11018 GH07940 56E2-56E2 dup:1/2 ID:60C2
- + endopeptidase * 2e-24 STUB_DROME SERINE PROTEINASE STUBBLE (STUBBLE-STUBBLOID PROTEIN) * 2e-16 MCT7_MOUSE MAST CELL PROTEASE PRECURSOR (MMCP-7) (TRYPTASE) * 6e-17 F [trypsin // TRYPSIN_CATAL] CG9377
 CG9377 GH08193 34B6-34B6 dup:1/2 ID:60D12
- + endopeptidase * 3e-11 TBP6_YEAST PROBABLE 26S PROTEASE SUBUNIT YTA6 (TAT-BINDING HOMOLOG 6) * 3e-08 CG14183 MEI1 CAEEL MEIOTIC SPINDLE FORMATION PROTEIN MEI-1 mei-1 * 0.000 CG14183 GH08353 76E3-76E4 dup:3/3 ID:60E12

- + enzyme * SUCCINYL-COA SYNTHETASE ALPHA CHAIN (SCS-ALPHA)(aa) * DMSUCCOAA Scs agr; * 9e-77 SUCA_YEAST PROBABLE SUCCINYL-COA LIGASE (GDP-FORMING), ALPHA-CHAIN [SUCCINYL_COA_LIG_2 // ligase-CoA // SUC] CG6255 CG6255 GH08383 92A6-92A6 dup:2/4 ID:60F3
- CG7669 + unknown * [NLS_BP] CG7669 GH08407 91A-91A dup:1/2 ID:60F7
- CG11656+ unknown * CG11656 GH08448 87D9-87D9 dup:1/2 ID:60F9
- + Lcch3 ion_channel * Lcch3 * GAB3_DROME GAMMA-AMINOBUTYRIC-ACID RECEPTOR BETA-LIKE SUBUNIT PRECURSOR (GABA(A) * 1e-109 similar to GABA receptor * 1e-112 GAB3_MOUSE GAMM [neur_chan // NEUROTR_ION_CHANNEL // NRI] CG17336 CG17336 GH08705 13F13-13F13 ID:60H3
- + enzyme * * 6e-25 nuclear binding protein yeast (Saccharomyces cerevisiae) * 5e-24 MRPL_CAEEL MRP-FAMILY PUTATIVE CG3262 NUCLEOTIDE-BINDING PROTEIN F10G8.6 * 9e-2 [fer4_NifH // MRP // ATP_GTP_A] CG3262 GH09040 40D2-40D2 dup:1/2 ID:61C8 CG7841 + unknown * CG7841 GH09068 71C4-71C4 dup:1/2 ID:61D1
- CG6304 + unknown * [NLS_BP] CG6304 GH09088 36A14-36A14 dup:2/3 ID:61D2
- + unknown * 5e-07 YNK8_YEAST HYPOTHETICAL 30.7 KD PROTEIN IN CYB5-LEU4 INTERGENIC REGION * 4e-46 T07F12.1 CG13604 gene product * 3e-09 Y33K_HUMAN HYPOTHETICAL 33.4 KD P [UBA // SH3] CG13604 GH09153 97F1-97F1 dup:2/4 ID:61D8 CG8508 + unknown * CG8508 GH09161 87E2-87E2 dup:1/2 ID:61D9
- + endopeptidase * TRYPSIN DELTA PRECURSOR(aa) * Ser12 * Ser6 * Dvtry-1 trypsin precusor(aa) [trypsin // CHYMOTRYPSIN // CG4653 TRYPSIN HIS | CG4653 GH09333 15A1-15A1 ID:61F1
- CG10508+ unknown * [WW_DOMAIN_2] CG10508 GH09378 78C4-78C4 dup:3/6 ID:61F6
- + enzyme * DMCATHPO_2 Cat * CATALASE(aa) * 1e-110 CATA_YEAST CATALASE A catalase (EC 1.11.1.6), peroxisomal * 1e-CG9314 158 catalase (EC 1.11.1.6) Caenorhabditis [CATALASE // catalase // CATALASE_1] CG9314 GH09387 29E4-29E4 dup:1/2 ID:61F8 CG4891 + BG:DS04095.1 unknown * CG4891 GH09478 35F1-35F1 dup:1/2 ID:61G1
 - + DNA_binding * pNORF1(aa) * NAM7_YEAST NAM7 PROTEIN (NONSENSE-MEDIATED MRNA DECAY PROTEIN 1) (UP-
- CG1559 FRAMESHIFT * nonsense-mediated mRNA decay trans-acting factor * 3 [ATP_GTP_A] CG1559 GH09524 10F6-10F7 dup:1/2 ID:61G7 + enzyme * 7e-62 SYWM_YEAST TRYPTOPHANYL-TRNA SYNTHETASE, MITOCHONDRIAL (TRYPTOPHAN--TRNA LIGASE) * 1e-60 SYWM_CAEEL PROBABLE TRYPTOPHANYL-TRNA SYNTHETASE, MIT [TRNASYNTHTRP // tRNA-synt_1b // AA_TRNA] CG7441 CG7441 GH09538 75A4-75A4 dup:1/3 ID:61G8
- + transporter * DMORCT2_2 Orct * 5e-13 putative organic cation transporter * 4e-09 similar to C. elegans protein and to rat synaptic CG7448 vesicle protein (PIR:S3 * 2e-13 CG7448 GH09791 79B2-79B2 dup:1/2 ID:61H11
- CG11074+ unknown * [NLS_BP] CG11074 GH09884 42F2-42F2 ID:62A8
- + * neural precursor cell expressed developmentally downregulated Nedd9(aa) * 1e-37 Crk-associated substrate * 6e-36 enhancer CG1212 of filmentation Crk-assoc [SH3DOMAIN // SH3] CG1212 61A4-61A5 dup:2/4 ID:62B1
- + metabolism * NADH-UBIQUINONE OXIDOREDUCTASE SGDH SUBUNIT PRECURSOR (COMPLEX I-SGDH) (CI-SGDH)(aa) * CG9762 NADH dehydrogenase (ubiquinone) beta subcomplex, (16kD, SGDH) CG9762 GH10129 68F5-68F5 ID:62C1
- + motor_protein * myosin heavy chain(aa) * ORF 73, contains large complex repeat CR sarcoma-associated * 7e-06 YIO9_YEAST CG3213 HYPOTHETICAL 195.1 KD PROTEIN IN DNA43-UBI1 [PRO_RICH // RIBOSOMAL_S14] CG3213 GH10403 23F5-23F5 ID:62D11
- CG6980 + chaperone * 5e-06 YB05_YEAST HYPOTHETICAL 44.1 KD PROTEIN IN RPB5-CDC28 INTERGENIC REGION * 1e-10

Hsp70/Hsp90 organizing protein homolog * 1e-08 coded for by C. [TPR_REGION] CG6980 GH10293 98E1-98E1 ID:62D2

- CG6130 + unknown * CG6130 GH10346 90E4-90E4 ID:62D6
- + cell_cycle_regulator * 1e-35 RAS1_YEAST RAS-LIKE PROTEIN GTP-binding protein RAS1 * 5e-32 RAS3_DROME RAS-LIKE PROTEIN (ROUGHENED PROTEIN) transfo * 3e-35 RASL_CAEEL RAS-L[PRENYLATION // ras // ATP_GTP_A // RAST] CG1081 CG1081 GH10361 83B3-83B3 ID:62D7
- + unknown * 4e-05 c431H6.1.2 (PUTATIVE novel protein) (PUTATIVE isoform 2) s * c431H6.1.1 (PUTATIVE novel protein) (isoform CG172381) * c431H6.1.3 (PUTATIVE novel prot CG17238 GH10365 87E1-87E1 dup:2/2 ID:62D8
- + motor_protein * 2e-05 cellular myosin heavy chain * 8e-07 myosin heavy chain, neuronal rat * 1e-05 Klp68D * myosin heavy CG4681 chain IIb CG4681 GH10544 60D6-60D6 dup:2/2 ID:62E11
- CG16979+ unknown * 3e-61 F38A5.1 gene product * 1e-40 putative protein * CG16979 GH10640 71D3-71D3 ID:62F11
- CG2267 + transcription factor * CG2267 100A2-100A2 dup:2/2 ID:62F6
- + acj6 DNA_binding * DMIPOU_2 acj6 * POU domain transcription factor(aa) * INHIBITORY POU PROTEIN (I-POU) (ABNORMAL CHEMOSENSORY JUMP PROTEIN)(aa) * 1e-152 PP12_YEAST SE [HOMEOBOX_1 // homeobox // HOMEOBOX_2 //] CG9151 GH10637 13C1-13C4 ID:62F9
- + unknown * 1e-36 predicted using Genefinder; Similarity to Human leukocyte surface * 7e-22 CD63_MOUSE CD63 ANTIGEN CG10742 CD63/ME491 antigen homolog mou * 3e-44 tet [transmembrane4 // TMFOUR // TM4_2] CG10742 GH10778 3A9-3A9 dup:1/2 ID:62G10
 - + metabolism * xylulokinase (H. influenzae) homolog(aa) * xylulose kinase(aa) * xylulokinase(aa) * HYPOTHETICAL 60.3 KD
- CG3544 PROTEIN R08D7.7 IN CHROMOSOME III(aa) [FGGY] CG3544 GH10780 21E1-21E1 ID:62G11
- + cell_adhesion * DMARTAN_7 trn * kek1 * tartan protein(aa) * 5e-16 CYAA_YEAST ADENYLATE CYCLASE (ATP CG11280 PYROPHOSPHATE-LYASE) (ADENYLYL CYCLASE) [LRR // LEURICHRPT // LRRCT] CG11280 GH10871 69F5-69F5 ID:62H10 CG17564+ unknown * 7E-86* * CG17564 GH10882 37D3-37D3 ID:62H12
- + enzyme * intermediate chain 1(aa) * nm23-H7(aa) * NUCLEOSIDE DIPHOSPHATE KINASE (NDK) (NDP KINASE)(aa) * 1e-06 CG8362 type nucleoside diphosphate kinase NM23-H6 CG8362 GH10857 85E4-85E4 ID:62H9
- + enzyme * 1e-09 URE2_YEAST URE2 PROTEIN glutathione transferase homolog U * 4e-78 glutathione transferase (EC 2.5.1.18) CG10091 D1 fruit fly (Drosophila melanogaste [GST] CG10091 GH11034 87B12-87B12 ID:63B3
- + transcription_factor * scrt * Similarity to Drosophila scratch neuronal zinc-finger transcription factor * 9e-05 RIM1 * 7e-73 neuron CG12605 specific zinc finger transcription[zf-C2H2 // ZINC_FINGER_C2H2 // ATP_GTP_] CG12605 GH11439 64A1-64A1 ID:63D10 CG18418 + unknown * CG18418 GH11346 65A10-65A10 ID:63D4
- CG6441 + unknown * CG6441 GH11511 28A1-28A1 dup:2/2 ID:63E3
- + srp transcription_factor * GATA factor(aa) * DMGATAFAC_2 srp * 3e-12 GAT1_YEAST GAT1 PROTEIN probable membrane protein YFL02 * 2e-18 ELT1_CAEEL TRANSCRIPTION FACTOR[GATAZNFINGER // LECTIN_LEGUME_BETA // G] CG3992 GH11649 CG3992 89B3-89B4 dup:2/5 ID:63F10
- + cytoskeletal_structural_protein * DMTUBA1_2 agr;Tub84B * 1e-117 TBA1_YEAST TUBULIN ALPHA-1 CHAIN tubulin alpha-1 CG7794 chain * 1e-132 TBA1_DROME TUBULIN ALPHA-1 CHAIN tubulin alpha-1 chain [tubulin] CG7794 GH11574 90D2-90D2 ID:63F2
- CG3306 + unknown * CG3306 GH11578 67B9-67B9 ID:63F3
- CG1324 + unknown * [ATP_GTP_A] CG1324 GH11587 19E3-19E3 ID:63F6

- CG16959+ unknown * [EGF_2] CG16959 GH11627 71B2-71B2 dup:2/2 ID:63F7
- + RNA_binding * putative RNA-binding protein(aa) * Wbscr1(aa) * 7e-05 NSR1_YEAST NUCLEAR LOCALIZATION SEQUENCE BINDING PROTEIN (P67) * 2e-13 RNA recognition motif-t [RNP_1 // RBD // rrm // NLS_BP] CG1340 GH11731 100A-100A dup:2/2 CG1340 ID:63G10
- CG14355 + unknown * CG14355 GH11706 88A12-88B1 ID:63G5
- CG11404+ unknown * CG11404 GH11730 79E-79E ID:63G9
- CG7886 + signal_transduction * 2e-15 IP63 protein * * CG7886 GH12083 88C10-88C10 ID:64B9
- CG4375 + unknown * CG4375 GH12486 21E2-21E2 dup:2/2 ID:64E10
- + enzyme * DMPAH Hn * 1e-114 phenylalanine hydroxylase * 1e-117 tryptophan hydroxylase * 1e-149 TR5H_MOUSE TRYPTOPHAN 5-MONOOXYGENASE (TRYPTOPHAN 5-HYDROXYLASE [FYWHYDRXLASE // biopterin_H // BIOPTERI] CG9122 CG9122 GH12537 61F3-61F3 ID:64F2
- CG11146+ signal_transduction Shb=Src homology 2 protein ANTIFREEZEI, SH2 CG11146 ID:64F5
- + RNA_binding * BLASTX 2.0E-34 Arabidopsis thaliana Col-O putative RNA helicase A mRNA, complete cds.(dna) * DMMLE_2 mle * 1e-79 hypothetical protein YLR419w yeas [PROTEIN_SPLICING // G_PROTEIN_RECEPTOR] CG9323 GH12763 38E5-38E5 CG9323 ID:64G12
- + unknown * 3e-08 probable membrane protein YLR251w yeast (Saccharomyces cerevisiae) * 1e-08 /match=(desc: * 3e-15 CG10854 PMP2_MOUSE KD PEROXISOMAL MEMBRANE PROTEIN CG10854 GH12661 64C4-64C4 ID:64G2
- + protein_phosphatase * DMPP1A1_2 Pp1 agr;-96A * serine-threonine protein phosphatase(aa) * type 1-related protein phosphatase(aa) * 1e-110 PP12_YEAST SERINE/THREONINE PR[PHOSPHO_ESTER // STPHPHTASE // SER_THR_] CG10138 CG10138 GH12873 58B9-58B9 ID:65A1
- CG13918+ unknown * CG13918 GH13002 62A-62A ID:65A12
- CG7634 + unknown * [TPR REPEAT] CG7634 GH12875 78E2-78E2 dup:2/2 ID:65A2
- + signal_transduction * F35A5.8 gene product(aa) * endophilin III(aa) * contains similarity to scr homology domain (SH3) (PFam:
- CG14296 SH3.hmm, score: 63.24)(aa) * DMSHPSHP_3 drk [SH3DOMAIN // SH3 // NLS_BP] CG14296 GH12907 91D4-91D4 dup:1/2 ID:65A4
- + transcription_factor_binding * coded for by C. elegans cDNA yk131g12.5(aa) * Rack1 * transcription initiation factor IID-associated CG6734 protein, 80K fruit fly (Drosophil[WD40 REGION // BEACH DOMAIN // IG MHC /] CG6734 GH12955 33B10-33B11 ID:65A8
 - + unknown * FLAGELLAR RADIAL SPOKE PROTEIN 4(aa) * radial spokehead(aa) * 9e-13 predicted using Genefinder; similar to
- CG3121 Sugar transporter; cDNA EST * 5e-55 radia [ER_TARGET] CG3121 GH13165 60A16-60A16 dup:1/2 ID:65C3
- CG2209 + unknown * CG2209 GH13175 11D3-11D3 ID:65C5
- + unknown * No definition line found(aa) * 4e-06 probable membrane protein YPR091c yeast (Saccharomyces cerevisiae) * 6e-43 CG5741 No definition line found * 3e-05 h CG5741 GH13177 66E4-66E4 ID:65C6
- CG15086+ unknown * 4e-05 immunogenic secreted protein precursor * * CG15086 GH13187 55E6-55E8 ID:65C7
- + enzyme * 5e-49 IDH1_YEAST ISOCITRATE DEHYDROGENASE (NAD), MITOCHONDRIAL SUBUNIT PRECURSOR (IS * 6e-57 CG3483 IDHA_CAEEL PROBABLE ISOCITRATE DEHYDROGENASE (NAD), MIT [isodh] CG3483 GH13226 60D2-60D2 ID:65C9
- + * ribokinase(aa) * ribokinase RbsK(aa) * DMC115C2 * 1e-71 /match=(desc:; /ma [pfkB // PRO_RICH // RIBOKINASE] CG17010 CG1701033D3-33D3 dup:2/2 ID:65D12

- + enzyme * 1-PYRROLINE-5-CARBOXYLATE DEHYDROGENASE (P5C DEHYDROGENASE)(aa) * UNKNOWN(aa) * Similar to CG6670 aldehyde dehydrogenase; coded for by C. elegans cDNA cm1 [aldedh // NLS_BP] CG6670 GH13449 93F-93F10 dup:2/2 ID:65D9
- + cytoskeletal_structural_protein * 2e-47 dystrophin * 1e-117 unnamed protein product * 1e-143 dystrobrevin dystrobrevin * 1e-143 CG8529 dystrobrevin B [ZF_ZZ // ZZ // CYTOCHROME_C] CG8529 GH13689 49A6-49A7 dup:2/2 ID:65E12
- CG1314 + unknown * CG1314 GH13802 19E4-19E4 ID:65F10
- + structural_protein * 8e-30 YLS5_CAEEL HYPOTHETICAL 55.1 KD PROTEIN F09G8.5 IN CHROMOSOME III * 2e-07 B7 * 6e-36 CG14995 chromosome open reading frame 28.3 KD PROTEIN C21OR * 8e- [LRR] CG14995 GH13848 64A7-64A8 dup:3/3 ID:65F12
- + unknown * SMC2orf(aa) * CD2 antigen (cytoplasmic tail)-binding protein 2(aa) * 1e-08 YHV6_YEAST HYPOTHETICAL 40.4 KD CG5198 PROTEIN IN SPO16-REC104 INTERGENIC REGIO CG5198 GH13760 33D1-33D1 ID:65F7
 - + signal_transduction * cDNA EST comes from this gene; cDNA EST comes from this gene; cDNA EST comes from this gene;
- CG8683 cDNA EST comes from this gene; cDNA EST comes from thi CG8683 GH13975 28E5-28E6 dup:2/3 ID:65G12
- + rb chaperone * beta3 * Beta3 protein(aa) * 2e-50 beta-adaptin protein * 2e-78 cDNA EST yk288h5.5 comes from this gene; cDNA CG11427 EST yk288f1.5 comes CG11427 GH14079 4C4-4C4 ID:66A1
- + DNA_binding * component of CCR4 transcriptional complex; Caf17p(aa) * putative protein(aa) * Similarity to S.pombe
- CG8043 hypothetical protein C21E11.07 (SW:YAL7_SCHPO CG8043 GH14121 85B-85B ID:66A7
- + jar motor_protein * DMMHC95F Mhc95F * 1e-116 MYS4_YEAST MYOSIN-4 ISOFORM myosin MYO4 yeast (Saccharo * MYS9_DROME MYOSIN HEAVY CHAIN 95F (95F MHC) myosin heavy * sim [myosin_head // IQ // MYOSINHEAVY // NLS] CG5695 CG5695 GH14351 95F-95F ID:66C4
- + translation_factor * HYPOTHETICAL 64.2 KD PROTEIN R08D7.3 IN CHROMOSOME III(aa) * UNKNOWN(aa) * elF3 p66(aa) * CG4810 9e-98 putative elongation initation factor subunit CG4810 GH14470 87B5-87B5 ID:66D7
- + enzyme_activator * 2e-40 inserted at base Both 5' and 3' ends of P element Inverse PCR * * [EF_HAND_2] CG3565 GH14476 CG3565 60D8-60D8 ID:66D8
- + E(Pc) unknown * 3e-15 YFC4_YEAST HYPOTHETICAL 96.7 KD PROTEIN IN STE2-FRS2 INTERGENIC REGION * enhancer of CG7776 polycomb * 2e-67 enhancer of polycomb * E(Pc) [NLS BP] CG7776 GH14582 47F15-47F15 dup:5/6 ID:66E10
- + endopeptidase * phosphate regulator(aa) * endothelin converting enzyme, ECE=putative zinc-binding metalloprotease aortic CG6265 endothelial cells, Peptide. * Similarity t CG6265 GH14576 97E2-97E3 dup:2/2 ID:66E8
- CG9469 + unknown * [PRO_RICH // NLS_BP // ATP_GTP_A] CG9469 GH14660 42E1-42E1 dup:2/3 ID:66F10
- CG1394 + unknown * CG1394 GH14622 10A11-10A11 ID:66F4
- CG12699+ unknown * CG12699 GH14656 54B7-54B7 ID:66F9
- + enzyme * Ac76E * type VIII adenylyl cyclase human(aa) * Ac35C * ADENYLATE CYCLASE, TYPE VIII (ATP PYROPHOSPHATE-LYASE) (CA(2+)/CALMODULIN ACTIVATED ADENYLY [guanylate_cyc // GUANYLATE_CYCLASES_2] CG5983 CG5983 GH14744 36A2-36A2 ID:66G6
- + And ligand_binding_or_carrier * similar to calmodulin-like protein.(aa) * Homo sapiens(aa) * CALMODULIN(aa) * Eip63F-1 [efhand // CG17769 EF_HAND_2] CG17769 GH15245 99D1-99D1 ID:67D2
- CG1999 + unknown * CG1999 GH15272 7A4-7A4 ID:67D3
- + protein_kinase * DMDOA_2 Doa * Mpk2 * DMDC2_2 Pka-C3 * 2e-70 KM65_YEAST PROBABLE SERINE/THREONINE-PROTEIN CG8565 KINASE YMR216C [PROTEIN_KINASE_ST // PROTEIN_KINASE_DOM] CG8565 GH15551 13F3-13F4 ID:67G7

- + motor_protein * 6e-31 tektin * 3e-54 testicular tektin B1-like protein * 4e-52 tektin B1 * tektin A1 sea urchin (Strongylocentrotus CG3085 purpuratus) | ITEKTINI CG3085 GH15825 59C3-59C3 dup:2/4 ID:68A12
- CG7742 + unknown * [TBC // RAB_GAP] CG7742 GH15768 25C9-25C9 ID:68A4
- + enzyme * Chain A, Crystal Structure Of Recombinant Human Brain Hexokinase Type I Complexed With Glucose And Glucose-6-
- CG5443 Phosphate(aa) * hexokinase-like protei [HEXOKINASES // hexokinase // HEXOKINASE] CG5443 GH15883 100A5-97B2 ID:68B3
- CG14891 + unknown * CG14891 GH16156 92A1-92A1 ID:68C12
- CG17349+ unknown * E04F6.2 gene product(aa) * 1E-130* CG17349 GH16267 37D6-37D7 ID:68D11
- + * 3e-30 No definition line found * 5e-48 SCF complex protein Skp2 * 1e-42 S-phase kinase-associated protein (p45) cyclin
- CG9772 A/CDK2-associate * YKK7_CAEE FBOX_DOMAIN CG9772 ID:68F1
 - + BG:DS02252.2 cytoskeletal_structural_protein * 2e-48 tektin * 2e-34 testicular tektin B1-like protein * 3e-59 tektin A1 sea urchin
- CG4767 (Strongylocentrotus purpuratus) * tektin C1 [TEKTIN] CG4767 GH16413 35E-35E ID:68F2
 - + unknown * 9e-36 by content; 1-meth * 1e-43 YS15_CAEEL HYPOTHETICAL 41.1 KD PROTEIN IN CHROMOSOME II * 1e-42
- CG3881 Sqv-8-like protein * 7e-47 UDP-glucuronyltransfera CG3881 GH16433 30C2-30C2 ID:68F5
- none + none GH16763 ID:68H11
- CG8278 + enzyme * 1e-05 cyclophilin Dicyp-2 * * [PRENYLATION] CG8278 GH17930 44F2-44F2 ID:70A2
 - + unknown * conserved hypothetical protein(aa) * CGI-111 protein(aa) * predicted using Genefinder; Similarity to E.coli hypothetical
- CG3663 protein YCAC (SW:YCAC_ECOL [Isochorismatase // ATP_GTP_A] CG3663 GH17932 60D10-60D10 dup:1/3 ID:70A3
- CG4983 + DNA_repair_protein * CG4983 GH17939 33A5-33A5 ID:70A4
 - + enzyme * MALEYLACETOACETATE ISOMERASE (MAAI)(aa) * glutathione transferase zeta 1(aa) * 6e-50 similar to glutathione
- CG9363 S-transferase * 3e-05 GTC_MOUSE GLUTATHI [GST] CG9363 GH17960 85D18-85D18 ID:70A5
- CG3492 + chaperone * [CSA_PPIASE_2 // PRENYLATION] CG3492 GH18016 60D2-60D2 ID:70B2
 - + unknown * Ynl288wp(aa) * hypothetical protein(aa) * protein involved in sexual development(aa) * 2e-61 YN28_YEAST
- CG9573 HYPOTHETICAL 41.2 KD PROTEIN IN PLC1-SEC21 CG9573 GH18039 29F8-29F8 ID:70B8
- CG18568+ unknown * CG18568 GH18325 50C21-50C21 dup:2/2 ID:70E3
- + RNA_binding * putative RNA binding protein(aa) * 3e-05 TUD_DROME MATERNAL TUDOR PROTEIN posterior-group protein t * 8e-07 YQK1_CAEEL HYPOTHETICAL 55.9 KD PROTEIN [KH-domain // KH_DOMAIN // TUDOR] CG7082 GH18329 23D1-23D1 CG7082 dup:3/3 ID:70E4
 - + serpin * 2e-30 Similar to serine protease inhibitor * 1e-33 serine proteinase inhibitor * 5e-42 SCC2_HUMAN SQUAMOUS CELL
- CG7722 CARCINOMA ANTIGEN (SCCA-2) (LEUPIN) [serpin // SERPIN] CG7722 GH18514 47C7-47C7 dup:2/4 ID:70F12
- CG8838 + unknown * [NLS_BP // ATP_GTP_A] CG8838 GH18521 25A1-25A1 ID:70G2
- CG15891+ unknown * CG15891 GH18658 5E1-5E1 ID:70H6
- + unknown * T03G11.3 gene product(aa) * CGI-62 protein(aa) * 1e-16 T03G11.3 gene product * CG10999 GH18838 83C3-83C3 CG10999 dup:1/2 ID:71A3
- CG16783+ signal_transduction fizzy-related protein FIZZY_DOMAIN, WD40 CG16783 ID:71B5
- CG1979 + BG:DS00464.1 transmembrane_receptor * unknown(aa) * * CG1979 GH19145 84C1-84C1 dup:1/2 ID:71C10
- CG9067 + unknown * 5e-05 unknown * 6e-16 unknown protein * YDOC_SCHPO HYPOTHETICAL 13.4 KD PROTEIN C15A10.12C IN

CHROMOSOME I * CG9067 GH19135 47E3-47E3 ID:71C7

- + transporter * mitochondrial carrier protein-like; similar to * 4e-13 probable membrane protein YPR011c yeast (Saccharomyces
- CG2616 cerevisiae) * 6e-11 colt * 3e-61 YQ [mito_carr // MITOCH_CARRIER] CG2616 GH19222 84D10-84D10 ID:71D5
- CG9130 + unknown * CG9130 GH19274 61F4-61F4 dup:2/3 ID:71D9
 - + peptidase * PROBABLE 55.1 KD PEPTIDASE C12B10.05(aa) * Xaa-Pro dipeptidase; peptidase D; prolidase; imidodipeptidase;
- CG9581 proline dipeptidase(aa) * 2e-59 YEQ8 YEAST [Peptidase M24 // MAPEPTIDASE] CG9581 GH19483 19C1-19C1 ID:71F2
- + transporter * unknown(aa) * anon-100EF-D3 * 1e-20 Similarity to Salmonella sodium/proline symporter (SW:PUTP_SALTY); * 1e-CG2196 33 sodium iodide symporter [SSF // NA_SOLUTE_SYMP_3] CG2196 GH19680 100E2-100E3 ID:71G12
- CG2854 + unknown * CG2854 GH19593 2F4-2F4 ID:71G3
 - + unknown * 1e-24 YLS5_CAEEL HYPOTHETICAL 55.1 KD PROTEIN F09G8.5 IN CHROMOSOME III * 2e-25 c210RF-
- CG15208 HumF09G8.5 * 5e-08 outer arm dynein light chain reinhar * 2e- CG15208 GH19655 9F12-9F12 ID:71G8
- + unknown * 2e-22 similarity to C. elegans protein C01C10.4 * 1e-36 SH3-domain binding protein * 1e-36 SH3 binding protein SH3 CG14408 binding protein * YKL4_CA CG14408 GH19670 12F7-13A1 ID:71G9
- + enzyme * citrate synthase(aa) * CITRATE SYNTHASE, MITOCHONDRIAL PRECURSOR(aa) * PROBABLE CITRATE SYNTHASE, MITOCHONDRIAL PRECURSOR(aa) * citrate synthase. Nu [citrate_synt // CITRATE_SYNTHASE // CIT] CG14740 CG14740 GH19789 87B1-87B1 ID:71H12
- CG18396+ Mst98Cb unknown * CG18396 GH20038 98C2-98C2 ID:72C1
- CG9483 + unknown * CG9483 GH20208 29F3-29F3 ID:72D7
- + alpha-Est6 enzyme * agr;-Est6 * enzyme carboxyesterase) map_position:84D4 * alpha esterase(aa) * agr;-Est7 [ESTERASE // CG1108 COesterase] CG1108 GH20431 84D5-84D5 ID:72F11
- + enzyme * Yjr105wp(aa) * 9e-49 ADK_YEAST PUTATIVE ADENOSINE KINASE ribokinase homolog * 2e-78 Similarity to Human adenosine kinase cDNA EST EMBL:Z1 * 2e-50 AD [ADENOKINASE // MITOCH_CARRIER // HELIX_] CG3809 GH20396 87B5-87B5 CG3809 ID:72F8
- CG3557 + unknown * CG3557 GH20409 23E4-23E4 ID:72F9
- + chaperone * KD CHAPERONIN, CHLOROPLAST PRECURSOR (PROTEIN CPN10) (PROTEIN GROES)(aa) * chaperonin 10(aa) * 6e-17 CH10_YEAST KD HEAT SHOCK PROTEIN, MITOCHONDRIA [CHAPERONIN10 // cpn10] CG9920 GH20473 88A10-CG9920 88A10 ID:72G3
- + transporter * 3e-19 nervous system antigen nerv * 5e-06 Similarity to Shrimp sodium/potassium-transporting ATPase beta cha * CG117037e-10 ATNB MOUSE SODIUM/POTASSIUM-TRA CG11703 GH20514 91F10-91F10 ID:72G7
- CG14021+ unknown * CG14021 GH20612 25D5-25D6 dup:2/2 ID:72H2
- CG15892+ CG15892 ID:72H4
- + enzyme * UNKNOWN(aa) * 7e-63 PUT2_YEAST DELTA-1-PYRROLINE-5-CARBOXYLATE DEHYDROGENASE PRECURSOR
- CG6661 (P5C DEHYDROG * 8e-11 alternatively spliced form; /prediction [aldedh] CG6661 GH20963 70C11-70C11 ID:73C5
- CG2750 + enzyme * No definition line found(aa) * * [ATP_GTP_A] CG2750 GH20980 11A7-11A7 ID:73C8
- CG1383 + unknown * 2e-74 F55A12.9 gene product * * CG1383 43E12-43E13 ID:73D4
- CG14208+ transporter * 2e-28 YG5F_YEAST PUTATIVE MITOCHONDRIAL CARRIER YGR257C hypot * 1e-52 YQ51_CAEEL PUTATIVE

- MITOCHONDRIAL CARRIER C16C10.1 (Z * 1e-53 mitochondrial ca [mito_carr // MITOCH_CARRIER] CG14208 GH21048 18D8-18D8 ID:73D5
- CG10752+ unknown * CG10752 GH21086 69E8-69E8 ID:73D8
- + enzyme * similar to tubulin tyrosine ligase; cDNA EST comes from this gene; cDNA EST comes from CG8918 GH21352 15E5-15E5 ID:73F10
- + DNA_binding * DMHMGDA_2 HmgD * HIGH MOBILITY GROUP PROTEIN Z (HMG-Z)(aa) * 2e-11 HMGD_DROME HIGH MOBILITY GROUP PROTEIN D (HMG-D) high mob * 2e-05 SSRP_CAEEL PROB [HIGHMOBLTY12 // HMG_box] CG7045 GH21448 CG7045 94B4-94B4 ID:73G1
- CG6652 + motor protein * 6e-13 unknown * * [NLS BP] CG6652 GH21622 73E4-73E4 dup:2/2 ID:73H9
- + endopeptidase * DMEAST_4 ea * 3e-27 EAST_DROME SERINE PROTEASE EASTER PRECURSOR serine protein * 9e-13 similar to peptidase family S1 (trypsin family) * 2e-20 serin [trypsin // CHYMOTRYPSIN // TRYPSIN_SER] CG8215 GH21666 52C-52C CG8215 ID:74A2
- + corto nucleic_acid_binding * corto * CENTROSOMAL AND CHROMOSOMAL FACTOR (CCF) (CHROMOCENTROSOMIN)(aa) * CP-CG2530 1(aa) * inserted at base Both 5' and 3' ends of P element Inverse PCR CG2530 GH21787 82F5-82F5 ID:74B1
- + unknown * POLYPOSIS LOCUS PROTEIN (TB2 PROTEIN)(aa) * pathogenicity protein(aa) * 2e-09 YSV4 CAEEL
- CG5539 HYPOTHETICAL 26.6 KD PROTEIN T19C3.4 IN CHROMOSOME III (U CG5539 GH21788 60A2-60A2 ID:74B2
- + enzyme * similar to GTP binding protein (YPT1 subfamily)(aa) * 5e-36 YPT8_YEAST GTP-BINDING PROTEIN YPT8 GTP-
- CG12156 binding protein Y * 1e-45 rab2 * 1e-44 RAB2_MOU [ras // ATP_GTP_A // RASTRNSFRMNG] CG12156 GH21792 7B8-7B8 ID:74B3
- + unknown * 2e-52 gene C35D10.2 protein Caenorhabditis elegans similar to * 3e-81 RGS-GAIP interacting protein GIPC GLUT1 * CG115467e-81 RGS-GAIP interacting protein [PDZ] CG11546 GH21964 44A8-44B dup:1/2 ID:74C11
- + enzyme * 1e-151 GLS1_CAEEL PUTATIVE GLUTAMINASE DH11.1 (GLS) (L-GLUTAMINE AMIDOHYDROLASE) * 1e-170 protein * 1e-171 GLSK_RAT GLUTAMINASE, KIDNEY ISOFORM PREC [ANK_REP // ank // ANK_REP_REGION] CG8772 GH22838 CG8772 49B8-49B8 dup:2/2 ID:75D1
- + enzyme * I(2)37Cs * Cs protein * 2e-19 No definition line found * 4e-15 protein [NAD_BINDING] CG10561 GH22841 37C1-37C1 CG10561 dup:2/2 ID:75D3
- CG3330 + unknown * CG3330 GH22851 97F8-97F8 ID:75D7
- + enzyme * PHOSPHOMANNOMUTASE (PMM)(aa) * 2e-91 YM8L_YEAST HYPOTHETICAL 71.1 KD PROTEIN IN DSK2-CAT8 CG10202 INTERGENIC REGION * 1e-114 similar to Phosphoglucomutase a [PGM PMM // PGMPMM] CG10202 GH22984 51C5-51C5 ID:75F1
- + ligand_binding_or_carrier * calcyphosine(aa) * CRUSTACEAN CALCIUM-BINDING PROTEIN (CCBP-23 PROTEIN)(aa) * 1e-10 predicted using Genefinder; Similarity to Human calmodulin (SW:P [EF_HAND // efhand // EF_HAND_2] CG10126 GH22994 87D3-87D3 CG10126 ID:75F5
- + unknown * hypothetical protein gs1.1.27.1(aa) * 6e-26 hypothetical protein YPL020c yeast (Saccharomyces cerevisiae) (* 1e-29 CG11023 YRW3 CAEEL HYPOTHETICAL 75.7 K CG11023 GH23213 21A3-21A3 dup:1/2 ID:75H9
- + cytoskeletal_structural_protein * p60 katanin(aa) * katanin p60 subunit(aa) * 4e-42 CC48_YEAST CELL DIVISION CONTROL
- CG1193 PROTEIN cell divisi * 3e-43 transitional endoplasmic reticulum A [AAA // NLS_BP // ATP_GTP_A] CG1193 GH23455 83C-83C ID:76C7 + rha motor_protein * RADHA protein(aa) * 1e-10 similar to C. elegans UNC-89 and titins * 3e-07 ORF 73, contains large complex CG11908 repeat CR sarcoma-associated herpesy * YL CG11908 GH23783 96D-96D ID:76G7

- + transcription_factor * DMSUHW_6 su(Hw) * crol * zf43C * 7e-08 zinc finger 30C [zf-C2H2 // ZINC_FINGER_C2H2 // ZINC_FIN] CG7101 CG7101 GH24178 17E1-17E1 ID:77C7
- + enzyme * CYSTEINYL-TRNA SYNTHETASE (CYSTEINE--TRNA LIGASE) (CYSRS)(aa) * 5e-52 YNY7_YEAST PUTATIVE CYSTEINYL-TRNA SYNTHETASE C29E6.06C (CYSTEINE--TRNA LIGASE [TRNASYNTHCYS // tRNA-synt_1e] CG8257 GH24360 CG8257 50E2-50E2 dup:3/3 ID:77E7
- + unknown * 4e-14 weak similarity to Bos taurus mitochondrial ATP synthase coupling factor B (SP * 1e-11 unknown * 8e-06 CG10731 ATPW BOVIN ATP SYNTHASE COUPLING FACTOR CG10731 GH24822 52F3-52F3 ID:77H11
- + ion_channel * DMCNGCHAN_2 Cng * cyclic nucleotide-gated ion channel LCNG1(aa) * cyclic nucleotide gated channel alpha 3(aa) * cyclic nucleotide-gated channel(aa) [cNMP_binding // CNMP_BINDING_1 // CHANN] CG9176 GH24752 13C5-13C5 dup:2/3 CG9176 ID:77H7
- CG16719+ unknown * hypothetical protein(aa) * 3e-10 hypothetical protein * CG16719 GH24859 67B11-67B11 ID:78A4
- CG10750+ unknown * CG10750 GH24871 37D3-37D3 dup:1/3 ID:78A7
 - + EG:9D2.4endopeptidase * DMC9D2 * /motif=(desc:; /motif=(desc:; /motif=(desc:; /match=(desc:; /m * 2e-20 kallikrein * 1e-28
- CG3795 mesotrypsinogen mesotrypsino [trypsin // CHYMOTRYPSIN // TRYPSIN_SER] CG3795 GH24985 2B8-2B8 ID:78B4
- CG17450+ unknown * CG17450 GH25094 cyto_unknown ID:78C5
- + ftz-f1 steroid hormone receptor steroid receptor beta FTZ-F1 [Drosophila melanogaster] NUCLEAR_RECEPTOR, STRDHORMONER, CG4059 STROIDFI] CG4059 GH25189 dup:3/3 ID:78D6
- CG6470 + transcription_factor * [zf-C2H2 // ZINC_FINGER_C2H2 // ZINC_FIN] CG6470 GH25257 17B5-17B5 dup:2/2 ID:78E4
- + unknown * 6e-32 antigen 5-related * 1e-19 antigen 5-related protein * 6e-34 Ag5r2 * VA3_SOLIN VENOM ALLERGEN III CG17210 (ALLERGEN SOL I 3) (SOL I III) CG17210 GH25284 86D8-86D8 dup:2/2 ID:78E5
- + Ork1 ion_channel * potassium channel, subfamily K, member (TASK-2); TASK-2(aa) * two P domain potassium channel ORK1(aa) * CG1615 Ork1 * BLASTX 8.1E-08 Mus musculus TREK-1 K [CHANNEL PORE K] CG1615 GH25390 9F8-9F10 ID:78F2
- + transporter * sodium-dicarboxylate cotransporter SDCT1(aa) * 8e-08 YJT8_YEAST HYPOTHETICAL 97.7 KD MEMBRANE
- CG4961 PROTEIN IN PRP21-UBP12 INTERGENIC REGIO * 4e-29 YKG6_C CG4961 GH25396 92C4-92C4 dup:2/2 ID:78F3
- CG1835 + unknown * [NLS_BP] CG1835 GH25431 19E2-19E2 ID:78F5
- + sut2 transporter * GLUCOSE TRANSPORTER TYPE 7, HEPATIC MICROSOMAL(aa) * Contains similarity to Pfam domain:
- CG17975 (sugar_tr), Score=356.0, E-value=1.3e-103, N=1(aa) * solute CG17975 GH25507 44A4-44A4 dup:2/2 ID:78G4
- + cell_adhesion * similar to the BPTI/Kunitz family of inhibitors; most similar to tissue factor pathway inhibitor precursor (TFPI)(aa) * CG1540 similar to Kunitz/Bovine [ig // EGF 1 // BPTI KUNITZ // Kunitz BP] CG1540 GH25513 98D2-98D2 dup:1/3 ID:78G5
- CG13503+ unknown * 1E-112* * [PRO_RICH] CG13503 GH25793 58C2-58C2 dup:1/2 ID:79B7
- + ligand_binding_or_carrier * GTP binding protein, almost identical to Gsp1p; Gsp2p(aa) * 3e-70 GSP2_YEAST GTP-BINDING NUCLEAR PROTEIN GSP2/CNR2 GTP-bind * 3e-23 rab11 * 6e[ras // GTPRANTC4 // ATP_GTP_A // RASTRN] CG7815 GH25818 CG7815 75F9-75F9 ID:79B9
- + enzyme * 1e-19 probable membrane protein YLR070c yeast (Saccharomyces cerevisiae) * 8e-40 sorbitol dehydrogenase * 5e-39 CG4836 similar to sorbitol dehydrogenase; [adh_zinc // NLS_BP] CG4836 GH25858 92C-92C dup:1/4 ID:79C3
- CG4764 + unknown * cDNA EST yk375c3.5 comes from this gene; cDNA EST yk375c3.3 comes from this gene(aa) * conserved

hypothetical protein(aa) * Vps29(aa) * PEP11 PROT [UPF0025] CG4764 GH25884 21E4-21E4 ID:79C7

- CG17470+ unknown * CG17470 GH26094 38E-38E dup:2/2 ID:79E10
 - + enzyme_activator * HYPOTHETICAL 45.1 KD PROTEIN IN IMP2-DNA43 INTERGENIC REGION(aa) * phosphotyrosyl
- CG8509 phosphatase activator(aa) * similar to hosphotyrosyl phosphatase CG8509 GH26069 13F1-13F1 dup:2/2 ID:79E2
- + unknown * hypothetical protein(aa) * Hrt2p(aa) * F31D4.2(aa) * hypothetical protein(aa) [NLS_BP] CG11475 GH26080 58C1-CG11475 58C1 dup:2/2 ID:79E5
- + transcription_factor * segmentation protein hairy fruit fly (Drosophila melanogaster)(aa) * DMHAIRG_5 h * 3e-07 lin-22 * 2e-18 CG10446 HES1 MOUSE TRANSCRIPTION FACTOR HES-1 (HAI [HLH // HELIX LOOP HELIX 2] CG10446 37B10-37B10 dup:2/2 ID:79F1
- + transporter * aquaporin 2(aa) * 1e-07 YFF4_YEAST HYPOTHETICAL 70.5 KD PROTEIN IN AGP3-DAK3 INTERGENIC REGION
- CG5398 * 8e-05 BIB_DROME NEUROGENIC PROTEIN BIG BRAIN bib pr [MINTRINSICP // MIP] CG5398 GH26134 59F1-59F1 ID:79F5
- CG4715 + unknown * CG4715 GH26159 21E-21E ID:79F9
- CG12136+ unknown * [AA_TRNA_LIGASE_I // NLS_BP] CG12136 GH26280 8D10-8D10 ID:79G11
- + actin_binding * 1e-05 contains similarity to the kelch/MIPP family * 1e-06 Keap1 * 1e-07 The gene product is related to Drosophila CG12423 melanogaster ri * 1e-06 kelch pro [BTB] CG12423 GH26310 cyto_unknown ID:79H3
- + unknown * contains similarity to E. coli cation transport protein * 6e-16 YEZ3_YEAST HYPOTHETICAL 26.3 KD PROTEIN IN CG10365 RAD4-CHD1 INTERGENIC REGION * 3e-22 cont CG10365 GH26317 95B5-95B5 ID:79H4
- CG7895 + tin transcription factor CG7895 tin dup:5/6 ID:8-31 cntrlBG4
 - + motor_protein * BACR37P7.j(aa) * MICRONUCLEAR LINKER HISTONE POLYPROTEIN (MIC LH) LINKER HISTONE
- CG9392 PROTEINS ALPHA, BETA, DELTA AND * * CG9392 GH26462 76C1-76C1 ID:80B3
- CG5755 + transporter * TB1(aa) * * [mito_carr] CG5755 GH26696 36E-36E ID:80D7
- CG4669 + unknown * [PRO_RICH] CG4669 GH26702 64D1-64D1 ID:80D8
- + ion_channel * Vdac * DMMITPORN_2 porin * 1e-09 POR2_YEAST OUTER MITOCHONDRIAL MEMBRANE PROTEIN PORIN (VOLTAGE-DEPENDENT ANION * 3e-66 voltage dependent anion-sele [Euk_porin // EUKARYTPORIN] CG17137 GH26967 32B3-32B3 CG17137 ID:80G10
- + unknown * 2e-11 cDNA EST CEMSB78F comes from this gene; cDNA EST yk293d9.3 comes * 2e-10 Unknown * CG12118 CG12118 GH27430 8D2-8D2 dup:3/4 ID:81D8
- + unknown * 1e-16 No definition line found * W06B11.1 gene product * 1e-16 No definition line found * W06B11.1 gene product CG3967 CG3967 GH27541 67B2-67B3 dup:2/2 ID:81E6
- CG14735+ unknown * CG14735 GH27720 87A10-87A10 ID:81G2
- CG8813 + transcription_factor * CG8813 GH27752 23B5-23B5 dup:1/2 ID:81G5
- CG4955 + RNA binding * CG4955 GH27756 15D1-15D1 ID:81G7
- CG15360+ unknown * CG15360 GH27779 22B3-22B3 ID:81H1
- CG2865 unknown * GH27792 81H4
- + glaikit unknown * Contains similarity to Pfam domain: (PLDc), Score=13.8, E-value=0.2, N=1(aa) * * CG8826 GH27933 23D4-23D4 CG8826 ID:82A7
- CG10630+ RNA_binding * CG10630 GH28067 64E-64E ID:82B10

- + unknown * 2e-19 YIC3_YEAST HYPOTHETICAL 37.4 KD PROTEIN IN IRR1-TIM44 INTERGENIC REGION * 4e-37 cDNA EST CG7816 comes from this gene; cDNA EST co * 3e-39 KE4 * 1e-38 CG7816 GH28072 99C7-99C7 dup:2/2 ID:82B11
- + RNA_binding * protein(aa) * 2e-49 ovarian protein fruit fly (Drosophila melanogaster) s * 8e-75 YLF1_CAEEL HYPOTHETICAL 42.4 KD PROTEIN C40H1.1 IN CHROMOSOME II [RNP_1 // RBD // PFKB_KINASES_1 // rrm] CG5735 GH28038 66E4-66E4 dup:2/3 CG5735 ID:82B7
- + ligand_binding_or_carrier * 16k antigen precursor nematode (Onchocerca volvulus)(aa) * phosphatidylethanolamine binding CG6180 protein Ovd1 nematode (Onchocerca volvulus) (fragmen [PBP] CG6180 33F2-33F2 dup:1/2 ID:82C12
- + RNA_binding * hypothetical protein(aa) * heterogeneous nuclear ribonucleoprotein R(aa) * 1e-08 RN15_YEAST MRNA 3'-END CG17838 PROCESSING PROTEIN RNA15 RNA15 pro * 6e-16 p [RBD // rrm // NLS_BP] CG17838 GH28335 92F10-92F10 dup:2/5 ID:82C6
 - + enzyme * phosphoglyceromutase fruit fly (Drosophila melanogaster)(aa) * DMPGLY_4 Pglym78 * 3e-72 PMG1_YEAST
- CG17645 PHOSPHOGLYCERATE MUTASE (PHOSPHOGLYCEROMUTASE 1 [PGAM // PG_MUTASE] CG17645 GH28416 87B7-87B7 ID:82D6 + unknown * cDNA EST comes from this gene; cDNA EST yk304g10.3 comes from this gene; cDNA EST yk304g10.5 comes from
- + Unknown * CDNA EST comes from this gene; CDNA EST yk304g10.3 comes from this gene; CDNA EST yk304g10.5 comes fro
- + peptidase * leucyl aminopeptidase like protein (partial)(aa) * 1e-103 leucine aminopeptidase * 1e-105 AMPL_BOVIN CYTOSOL AMINOPEPTIDASE (LEUCINE AMINOPEPTIDAS [LAMNOPPTDASE // CRYSTALLIN_BETAGAMMA //] CG8040 GH28719 67D12-CG8040 67D13 dup:3/3 ID:82F9
- CG17884+ Snap25 synaptosome-associated protein Synapse protein 25 CG17884 GH28821 ID:82G10
- CG8006 + unknown * CG8006 GH28769 67E7-67E7 ID:82G2
- + lat DNA_replication_factor * recognition complex subunit mela * 8e-92 recognition complex subunit * 9e-95 recognition complex
- CG4088 associated protein p81 * 2e-92 inserted at base Bot [NLS_BP // ATP_GTP_A] CG4088 GH28787 49F10-49F10 dup:1/2 ID:82G4
- + ribosomal_protein * predicted using Genefinder; Similarity to Prototheca mitochondiral ribosomjal protein S11 (SW:RT11_PROWI); CG5184 cDNA EST vk372e6.3 comes from this gene: [Ribosomal S11] CG5184 GM13519 89E13-89E13 ID:83A11
- + endopeptidase * valosin-containing protein homolog(aa) * Sug2p(aa) * 726aa long hypothetical transitional endoplasmic reticulum CG6815 ATPase(aa) * ATPase-like protein(a [AAA // ATP_GTP_A] CG6815 89B17-89B17 dup:2/2 ID:83F7
- + motor_protein * DNA segment, single copy, probe pH4 (transforming sequence, thyroid-1,(aa) * 1e-07 microtubule binding protein CG6664 D-CLIP-190 * 1e-20 YRU4_CAEEL HYPOTHE CG6664 LD23434 73E2-73E3 dup:2/2 ID:84B11
- CG15340+ CG15340 LD25626 ID:84G11
- + GTP-binding protein ligand_binding_or_carrier signal recognition particle receptor-like ATP_GTP_A, NLS_BP, SRP54 CG2522 CG2522 LD25651 ID:84H2
- + enzyme * 7e-52 DEOC_CAEEL PUTATIVE DEOXYRIBOSE-PHOSPHATE ALDOLASE (PHOSPHODEOXYRIBOALDOLASE) (* CG8525 9e-69 CGI-26 protein * 1e-26 2-deoxyribose 5-phosphate aldol CG8525 LD25963 49A4-49A5 ID:85B10
- CG10609+ Or83b signal_transduction (Odorant receptor 83b) olfactory receptor CG10609 LD26485 ID:85F4
- + protein_kinase * 1e-07 probable membrane protein YDL146w yeast (Saccharomyces cerevisiae) * 3e-09 hypothetical protein * CG2258 [SH3] CG2258 LD26707 7D9-7D9 dup:1/3 ID:85G7
- CG9828 + chaperone DnaJ homolog 2 DNAJPROTEIN CG9828 LD27049 dup:2/2 ID:86B6
- CG10171 + unknown * CG10171 LD27069 70A5-70A5 ID:86B8

- + UbcD4 enzyme * 3e-33 UBC1_YEAST UBIQUITIN-CONJUGATING ENZYME E2-24 KD (UBIQUITIN-PROTEIN LIGASE) (UBI * 1e-107 ubiquitin conjugating enzyme * 7e-54 contains simila [UBA // UBIQUITIN_CONJUGAT // UQ_con //] CG8284 LD27480 67B12-67B12 CG8284 dup:2/2 ID:86E11
 - + chaperone * 9e-13 XDJ1 protein yeast (Saccharomyces cerevisiae) Xdj1p: H * 4e-09 DNJ1_DROME DNAJ PROTEIN
- CG8531 HOMOLOG (DROJ1) droj1 * 1e-46 contains strong similar [DnaJ // DNAJ_2] CG8531 LD27406 50E9-50E9 dup:2/2 ID:86E7
 - + function_unknown * 5e-09 cDNA EST yk293f3.3 comes from this gene * 5e-05 Y0DG_MYCTU HYPOTHETICAL 17.3 KD PROTEIN CY1A11.16C (Z * cDNA EST yk331d5.3 comes from thi[FHA_DOMAIN // D111_DOMAIN // NLS_BP //] CG8079 LD27413
- CG8079 51E9-51E9 dup:2/2 ID:86E8
- CG2061 + BcDNA:LD28247 G protein-coupled receptor 69A CRYSTALLIN BETAGAMMA CG2061 LD28247 dup:2/3 ID:87D2
- + Acer peptidase * DMACERMET_2 Acer * dipeptidyl carboxypeptidase I converting enzyme)(aa) * metallopeptidase(aa) * enzyme-like CG10593 protein(aa) [PEPDIPTASEA // Peptidase_M2 // ZINC_PRO] CG10593 LD28328 31B1-31B1 ID:87D9
- CG16972+ motor_protein * [NLS_BP] CG16972 LD28380 34A9-34A9 dup:4/4 ID:87E5
- CG5094 + chaperone CG5094 dup:2/2 ID:88H9
 - + Sdic motor protein * Sdic * DYNEIN INTERMEDIATE CHAIN, CYTOSOLIC (DH IC) (CYTOPLASMIC DYNEIN INTERMEDIATE
- CG9580 CHAIN)(aa) * axonemal dynein intermediate chain Sdic(aa) * 4e- [WD40] CG9580 LD35918 19C1-19C1 dup:2/2 ID:95E4 + nmo protein_kinase * nmo * 2e-58 HOG1_YEAST MITOGEN-ACTIVATED PROTEIN KINASE HOG1 (MAP KINASE HOG1) (OSMOSENSING * nemo, form I fruit fly (Drosophila melanogaster) [PROTEIN_KINASE_ST // PROTEIN_KINASE_DOM] CG7892
- CG7892 LD36031 67D9-66B4 dup:2/2 ID:95F4
 - + Hsp67Bb chaperone * DMHGSG2_7 Hsp67Bb * 1e-14 hypothetical protein YOR285w yeast (Saccharomyces cerevisiae) * 5e-60
- CG4456 HS6B_DROME HEAT SHOCK PROTEIN 67B2 heat shock prot [Rhodanese // RHODANESE] CG4456 LD36162 67B1-67B1 ID:95G6 + chaperone * FKBP54(aa) * 2e-11 FKBP_YEAST FK506-BINDING PROTEIN (FKBP) (PEPTIDYL-PROLYL CIS-TRANS ISOMERASE) (P * 3e-08 FKB2_DROME KD FK506-BINDING PROTEIN (FK [TPR_REGION // FKBP_PPIASE_2 // FKBP_PPI] CG5482
- CG5482 LD36412 55E5-55E5 ID:96A4
 - + Rpt1 endopeptidase * 1e-166 PRS7_YEAST 26S PROTEASE REGULATORY SUBUNIT HOMOLOG (CIM5 PROTEIN) (TAT-BINDING * 4e-48 transitional endoplasmic reticulum ATPase TER94 * PRS [AAA // ATP_GTP_A] CG1341 LD36653 43E6-43E6 dup:1/3
- CG1341 ID:96B9
- + unknown * 6e-07 No definition line found * 8e-26 unknown protein * [UX_DOMAIN // UBX] CG5469 LD37137 55E6-55E6 dup:3/3 CG5469 ID:96E4
- + unknown * hypothetical protein(aa) * Hrt2p(aa) * F31D4.2(aa) * hypothetical protein(aa) CG2921 LD38241 58C1-58C1 dup:2/2 CG2921 ID:97E5
- + enzyme * BLASTX 1.3E-13 Bos taurus phosphatidylinositol 4-kinase mRNA, complete cds.(dna) * 1e-29 PIK1_YEAST PHOSPHATIDYLINOSITOL 4-KINASE PIK1 (PI4-KINASE) [PI3_4_KINASE_1 // PI3_PI4_kinase // PI3] CG7004 LD38593 61B3-61B3 CG7004 dup:3/3 ID:97G12
- + chaperone * possesses DNAJ-like domain; cDNA EST yk272a11.3 comes from this gene; cDNA EST yk272a11.5 comes from this gene(aa) * 2e-10 YNH7_YEAST HYPOTHETICAL 5 [DNAJ_1 // DnaJ // DNAJPROTEIN // DNAJ_2] CG11035 LD38634 84E7-84E7 CG11035 ID:97H1
- CG10639+ unknown * 1e-75 hypothetical protein * repressor of the gab DTP gene cluster * Y039_MYCPN HYPOTHETICAL PROTEIN

MG039 HOMOLOG glycerol- * CG10639 LD39082 37B8-37B8 ID:98C7

CG10934+ CG10934 GH26058 dup:2/3 ID:Farhad's BA12

+ transcription_factor * DMDORSAL_2 dl * EMBRYONIC POLARITY DORSAL PROTEIN(aa) * 4e-37 KBF1_MOUSE NUCLEAR FACTOR NF-KAPPA-B P105 SUBUNIT (DNA-BINDING FA[REL // REL_2 // NFKBTNSCPFCT // RHD] CG6667 dorsal 36C2-36C2 CG6667 dup:3/4 ID:Path + CtrL1 + kras11