

Supplementary Table S2. Functional information and homologs.								
Sequence Name	Genepairs ID	Locus	Ahringer Autoclass	Functional Class	Drosophila	Human	InterPro Molecular Function	NCBI KOG
B0511.8	B0511.8			Metabolism	MRP330	Mit. ribosomal protein S30	Structural constituent of ribosome	Mitochondrial 28S ribosomal protein S30
C01G8.5	C01G8.5	erm-1	Cell Architecture	Cell Architecture	Moesin	Moesin	Cytoskeletal protein binding	Radixin, moesin and related proteins of the ERM family
C02C6.1	C02C6.1	dyn-1	Cell Architecture	Cell Architecture	Shibire	Dynamin	GTPase	Vacuolar sorting protein VPS1, dynamin, and related proteins
C02F4.1	C02F4.1	ced-5	Cell Architecture	Cell Architecture	Myoblast city	DOCK180	*Small GTPase regulatory/interacting protein	Signaling protein DOCK180
C06G3.10	C06G3.10	cogc-2	Unknown	Unknown	LDLCp	COG2		Low density lipoprotein receptor
C09G12.8	C09G12.8	ced-10	Signaling	Signaling	Rac1	Rac	GTPase	Ras-related small GTPase, Rho type
C09H10.7	C09H10.7		Unknown	Unknown	Patched		*Transmembrane receptor	
C15F1.3	C15F1.3	tra-2	Unknown	Unknown	CG15747	DKFZP434K1421		DNA helicase, TBP-interacting protein
C16C10.6	C16C10.6		Unknown	Unknown	Pont	RuvB-like 1		Beta tubulin
C24D10.4	C24D10.4		Unknown	Unknown	Target of poxn	TF 15		Serine proteinase inhibitor (KU family) with thrombospondin repeats
C27H6.2	C27H6.2	rvb-1	DNA Binding	Transcription Factor	Beta tubulin	Beta tubulin	ATP binding DNA helicase	Glutamate-gated kainate-type ion channel receptor subunit GluR5
C28C12.8	C28C12.8	hlh-12	Transcription Factor	Cell Architecture	Papilin	Papilin	GTPase/Structural molecule	Alpha tubulin
C36E8.5	C36E8.5	tbb-2	Unknown	ECM	CG15627	GluR6 kainate receptor	Metalloendopeptidase/serine protease inhibitor	Inorganic pyrophosphatase/Nucleosome remodeling factor, subunit NURF38
C37C3.6	C37C3.6	ppn-1	Unknown	Other	Alpha tubulin	Alpha tubulin	Glutamate gated ion channel	Mitogen inducible gene product (contains ERM and PH domains)
C43H6.9	C43H6.9	glr-7	Neuro	Cell Architecture	Nurf-38	Inorganic pyrophosphatase	GTPase/Structural molecule	Synaptic vesicle transporter SVOP and related transporters
C47B2.3	C47B2.3	tba-2	Metabolism	Cell Architecture	CG14991	PH domain family C member 1	Magnesium ion binding pyrophosphatase	RNA polymerase II general transcription factor BTF3 and related proteins
C47E12.4	C47E12.4	pyp-1	Cell Architecture	Cell Architecture	CG8654	Organic cation transporter 3	*Cell adhesion constituent	GTP-binding protein SEC4 and related Ras family GTP-binding proteins
C47E8.7	C47E8.7	unc-112	Sm Molecule Transport	Other	Bicaudal	FLJ14844	Transporter	Putative beta-catenin-Tcf/Lef signaling pathway component DRCTNNB1A
C53B4.1	C53B4.1	iod-1	Transcription Factor	Transcription Factor	Rab8	Rab-BB	DNA binding GTPase	Collagens (type IV and type XIII)
C56C10.8	C56C10.8	rab-8	Synthesis	Cell Architecture	CG6406	DRCTNNB1A	Translation initiation factor 2B, delta subunit (eIF-2Bdelta/GCD2)	
D1037.4	D1037.4	let-2	Cell Architecture	Unknown	Cg25C	165 kDa protein	Transcription factor PRD and related proteins, contain PAX and HOX domains	
D1069.3	D1069.3		Collagen	Protein Synthesis	elf2B	eIF-2B	Nuclear helicase MOP-3/SNO (DEAD-box superfamily)	
F01G12.5	F01G12.5	vab-3	Protein Synthesis	Transcription Factor	Eyelless	Pax6	Prefoldin subunit 6, KE2 family	
F11A3.2	F11A3.2	nsh-1	NA Binding	NA Binding	CG7770	MOP-3	mRNA cleavage and polyadenylation factor II complex, subunit PTA1	
F14F3.1	F14F3.1		Cell Architecture	Cell Architecture	CG2097	CG14869	Disintegrin metalloproteins with thrombospondin repeats	
F20H11.2	F20H11.2		Unknown	Proteases	Alpha tubulin	FLJ14844	Alpha tubulin	
F21C3.5	F21C3.5	tba-1	Protein Synthesis	Degradation/Protease	Ribp8	Ribp8	RNA polymerase subunit 8	
F25G6.2	F25G6.2		Transcription Factor	Cell Architecture	Hem	Hem	Membrane-associated hematopoietic protein	
F25H8.3	F25H8.3	gon-1	RNA Synthesis	Synthesis	Mcm7	Mcm7	DNA replication licensing factor, MCM component	
F26E4.8	F26E4.8		Signaling	Cell Cycle	Stunted	Stunted	Mitochondrial F1FO-ATP synthase, subunit epsilon/ATP15	
F26F4.11	F26F4.11	gex-3	Cell Cycle	Unknown	Gluron	Gluron	Chromosome condensation complex Condensin, subunit C	
F28D1.10	F28D1.10	mcm-7	Metabolism	Proteases	CG6004	SMC4-like	Inositol 1,4,5 triphosphate receptor interacting protein	
F32D1.10	F32D1.10		Cell Cycle	Unknown			Alpha tubulin	
F32D1.2	F32D1.2		Unknown	Unknown			mRNA splicing factor	
F35G12.8	F35G12.8	smc-4	Cell Cycle	Nucleic Acid Binding			Vitronectin receptor, alpha subunit	
F40F11.2	F40F11.2		Unknown	Cell Cycle			SPEC, PH, SH3, and Rac-specific and Rho-specific GEF domains	
F44C4.4	F44C4.4	gon-14	Unknown	Unknown			AAA ATPase containing von Willebrand factor type A (VWA) domain	
F44F4.11	F44F4.11	tba-4	Cell Architecture	Cell Architecture			Nuclear pore complex, Nup160 component	
F49D11.1	F49D11.1	prp-17	RNA Synthesis	RNA Synthesis			Mitochondrial/chloroplast ribosomal protein L2	
F54G8.3	F54G8.3	ina-1	Cell Architecture	Cell Architecture			Heparan sulfate proteoglycan Syndecan	
F55C7.7	F55C7.7	unc-73	Signaling	Signaling			GTP-binding ADP-ribosylation factor Arf1	
F55F10.1	F55F10.2	npp-6	Unknown	Unknown			Gamma tubulin	
F56A3.3	F56A3.3		Protein synthesis	Protein synthesis			Ran-binding protein RANBP1 and related RanBD domain proteins	
F56B3.8	F56B3.8	sdn-1	Signaling	Signaling			Putative SAM-dependent rRNA methyltransferase SPB1	
F57C7.3	F57C7.3	art-3	Signaling	Signaling			Beta tubulin	
F57H12.1	F57H12.1	gei-13	Chromatin	Transcription Factor			Anaphase-promoting complex (APC), subunit 2	
F58A4.11	F58A4.11	tbg-1	Cell Architecture	Cell Architecture			Kinesin-like protein	
F58A4.8	F58A4.8	npp-9	Cell Architecture	Cell Architecture			Actin and related proteins	
F59A2.1	F59A2.1		Metabolism	Metabolism			7 transmembrane receptor	
H06I04.3	Y53GB8_93.d		Cell Architecture	Cell Architecture			Helix loop helix transcription factor	
K01G5.7	K01G5.7	tbb-1	Cell Cycle	Cell Cycle			Chromosome condensation complex Condensin, subunit E	
K06H7.6	K06H7.6	apo-2	Unknown	Unknown			Nuclear envelope protein lamin, intermediate filament superfamily	
K07E12.1	K07E12.1	dig-1	Signaling	ECM			Ras-related small GTPase, Rho type	
K09B11.9	K09B11.9		Unknown	Unknown			SCF ubiquitin ligase, Rbx1 component	
M03D4.1	M03D4.1	zen-4	Cell Architecture	Cell Architecture			CREB binding protein/P300 and related TAZ/Zn-finger proteins	
M03F4.2	M03F4.2	act-4	Cell Architecture	Cell Architecture			Predicted alpha-helical protein, potentially involved in replication/repair	
M03F4.3	M03F4.3	tag-126	Signaling	Signaling			Nucleolar RNA-binding protein NIFK	
M05B5.5	M05B5.5	hh-2	Cell Cycle	Cell Cycle			Actin and related proteins	
M106.1	M106.1	mix-1	RNA Binding	RNA Binding			Chaperonin complex component, TCP-1 alpha subunit (CCT1)	
R02F2.7	R02F2.7	ifc-2	Cell Cycle	Cell Cycle			Transcription factor, subunit of SRB subcomplex of RNA polymerase II	
R07G3.1	R07G3.1	cdc-42	Unknown	Unknown			Splicing factor 3a, subunit 3	
R08D7.2	R08D7.2		Signaling	Signaling			60S ribosomal protein L11	
R10A10.2	R10A10.2	rbx-2	Unknown	Unknown			Molecular chaperone (DnaJ superfamily)	
R10E11.1	R10E11.1	cbp-1	Chromatin	Chromatin			RNA-binding protein (RRM superfamily)	
R53.6	R53.6		Unknown	Unknown			SMT3/SUMO-activating complex, catalytic component UBA2	
T04A8.6	T04A8.6	act-1	RNA Binding	RNA Binding			Cactus	
T04C12.6	T04C12.6	cct-1	Protein synthesis	Protein synthesis			tRNA and rRNA cytosine-C5-methylase (nucleolar protein NOL1/NOP2)	
T05C12.7	T05C12.7	lin-5	Cell Cycle	Cell Cycle			Alpha tubulin	
T09A5.10	T09A5.10	mdt-10	Unknown	Unknown			G1/S-specific cyclin D	
T09A5.6	T09A5.6		Transcription Factor	Transcription Factor			Zn-finger	
T09E8.1	T09E8.1	rpl-11.1	RNA Synthesis	RNA Synthesis			Nuclear export receptor CSE1/CAS (importin beta superfamily)	
T13H5.4	T13H5.4	dnj-22	Metabolism	Metabolism			Golgi transport complex COD1 protein	
T22F3.4	T22F3.4	rbd-1	Unknown	Unknown			Chaperonin complex component, TCP-1 theta subunit (CCT8)	
T23B12.7	T23B12.7	uba-2	RNA Binding	RNA Binding			HAT repeat protein	
T23F6.4	T23F6.4		Degradation/Protease	Degradation/Protease			Transcription factor containing NAC and TS-N domains	
W02A11.4	W02A11.4		Unknown	Unknown			Subunit of cis-Golgi transport vesicle tethering complex - Sec34p	
W03H9.4	W03H9.4		RNA Synthesis	RNA Synthesis			Talin	
W07E6.1	W07E6.1		Cell Architecture	Cell Architecture			Tyrosine kinase	
Y19D28.1	Y19D28.1	cyd-1	Cell Cycle	Cell Cycle			Traf2- and Nck-interacting kinase and GCK family protein kinases	
Y38F1A.5	Y38F1A.5	tra-1	Chromatin	Chromatin			Integrin beta subunit	
Y47D3A.6	Y47D3A.6	pha-1	Cell Cycle	Cell Cycle			Dystonin, GAS (Growth-arrest-specific protein)	
Y48A6C.5	Y48A6C.5	imb-5	Unknown	Unknown			Nuclear pore complex, Nup98 component (sc Nup145/Nup100/Nup116)	
Y48G1A.5	Y48G1A.5	cogc-4	Protein synthesis	Protein synthesis			Sof1-like rRNA processing protein (contains WD40 repeats)	
Y51H7C.6	Y51H7C.6		Cell Architecture	Cell Architecture			Vacuolar H+-ATPase VO sector, subunit a	
Y55F3A.R3	Y55F3A.R3		Unknown	Unknown			Small nuclear ribonucleoprotein (snRNP) SMF	
Y59A8B.6	Y59A8C.B		RNA Synthesis	RNA Synthesis				
Y65B4B.R5	Y65B4B.R5	cogc-3	Degradation	Degradation/Protease				
Y71F9A.M4	Y71F9A.M4		Unknown	Unknown				
Y71G12A.11	Y71G12A.195.e	npp-10	Neuro	Neuro				
Y92H12A.1	Y92H12A.1	src-1	Signaling	Signaling				
ZC504.4	ZC504.4	mig-15	Cell Architecture	Cell Architecture				
ZK1058.2	ZK1058.2	pal-3	Cell Architecture	Cell Architecture				
ZK1151.1	ZK1151.1	vab-10	Cell Architecture	Cell Architecture				
ZK1236.3	ZK1236.3	sor-1	Unknown	Unknown				
ZK28.5	ZK28.5		RNA Synthesis	RNA Synthesis				
ZK430.7	ZK430.7	npp-10	RNA Synthesis	RNA Synthesis				
ZK637.8	ZK637.8	unc-32	Cell Architecture	Cell Architecture				
ZK652.1	ZK652.1	snr-5	RNA Synthesis	RNA Synthesis				