

Rodriguez-Fernandez and Dell'Angelica
Supplementary Table 3

Rank	Fly Gene name	Chr.	Protein name (alternative name)	Summary of reported/proposed function ^a	Interacting BLOC-1 subunit	Human Ortholog
1	<i>Cdic2</i> (CG5450)	2L	Cytoplasmic dynein light chain 2	ATPase microtubule-based motor activity	BLOS1	<i>DYNLL1</i>
2	<i>endoB</i> (CG9834)	2R	endophilin B	Membrane organization and biogenesis	BLOS2	<i>SH3GLB1</i>
3	<i>Hrs</i> (CG2903)	2L	HGF-regulated tyrosine kinase	Protein/membrane trafficking, endosomes, synaptic vesicles	Dysbindin	<i>HGS</i>
4	<i>aPKC</i> (CG10261)	2R	Atypical protein kinase C	Protein kinase	Dysbindin	<i>PRKIC</i>
5	<i>usnp</i> (CG11173)	2R	ubisnap, SNAP-29	Protein/membrane trafficking, membrane fusion	BLOS2	<i>SNAP29</i>
6	<i>CG14164</i>	3L			BLOS2	<i>LSM12</i>
7	<i>CG2095</i>	3R			BLOS2	<i>EXOC4</i>
8	<i>CG18449</i>	2R			Pallidin	?
9	<i>CG2774</i>	2L		Cell communication, intracellular protein trafficking	Pallidin	<i>SNX2</i>
10	<i>CG10263</i>	2L		Protein and zinc ion binding	Snapi	<i>CBLL1</i>
11	<i>CG10681</i>	3L			BLOS1	<i>C19ORF50</i>
12	<i>Frq2</i> (CG5907)	X	Frequenin 2	Calcium ion binding, vesicle-mediated transport	BLOS1	<i>FREQ</i>
13	<i>CG17570</i>	2L			BLOS2	?
14	<i>drk</i> (CG6033)	2R	downstream of receptor kinase	Signal transduction, multiple functions	BLOS2	<i>GRB2</i>
15	<i>CG15124</i>	2R			Cappucino	?
16	<i>CG9951</i>	3L			Dysbindin, BLOS2	<i>CCDC22</i>
17	<i>CG17599</i>	X			Dysbindin	?
18	<i>RhoGAP92B</i> (CG4755)	3R	RhoGAP92B	GTPase activator, signal transduction	Dysbindin	<i>ARHGAP17</i>
19	<i>Stam</i> (CG6521)	2L	Stam (Signal transducing adaptor molecule)	Synaptic vesicle endocytosis, involved in JAK-STAT cascade	Pallidin	<i>STAM</i>
20	<i>CG14684</i>	3R			BLOS1	?
21	<i>CG4363</i>	2R			BLOS1	?
22	<i>CG11436</i>	X			BLOS2	<i>TTC17</i>
23	<i>kappaB-Ras</i> (CG1669)	2R	kappaB-Ras	GTP binding, regulation of NF-kappaB cascade	BLOS2	<i>NKIRAS1</i>
24	<i>alphaTub84B</i> (CG1913)	3R	alpha-Tubulin at 84B	GTP binding, structural constituent of cytoskeleton	BLOS2	<i>TUBA1A</i>
25	<i>CG10750</i>	2L			Dysbindin	<i>CCDC42</i>
26	<i>CG9170</i>	X		Protein binding	Dysbindin	<i>CEP164</i>
27	<i>CG13474</i>	3L			Pallidin	?
28	<i>Cpr67Fa2</i> (CG18349)	3L	Cuticular protein 67Fa2	Structural constituent of chitin-based cuticle	BLOS2	?
29	<i>CG8736</i>	2R			BLOS2	?
30	<i>SIP3</i> (CG15468)	X	Syntaxin Interacting Protein 3		Dysbindin	?
31	<i>CG30428</i>	2R			Pallidin, BLOS2	?
32	<i>Traf1</i> (CG3048)	2L	TNF-receptor-associated factor 1	Multiple functions	Pallidin	<i>TRAF4</i>
33	<i>CG15710</i>	2R		Nucleic acid and zinc ion binding	Snapi	<i>PRDM4</i>
34	<i>Bap60</i> (CG4303)	X	Brahma associated protein 60kD	Transcription factor	BLOS2, Snapi	<i>SMARCD1</i>
35	<i>CG3548</i>	2R			BLOS1	?
36	<i>CG5026</i>	3L		Inositol or phosphatidylinositol phosphatase activity	BLOS1	<i>MTMR9</i>
37	<i>mub</i> (CG7437)	3L	mushroom-body expressed	Regulation of alternative nuclear mRNA splicing	BLOS1	<i>PCBP3</i>
38	<i>dei</i> (CG5441)	3R	delilah	Transcription factor	BLOS2	<i>ATOH1</i>
39	<i>CG8831</i>	2R		Nucleocytoplasmic transporter activity	Cappucino, Dysbindin, BLOS1	<i>NUP54</i>
40	<i>CG14556</i>	3R			Cappucino, Dysbindin, BLOS2	?
41	<i>CG17265</i>	2L			Dysbindin, BLOS1	<i>CCDC85A</i>
42	<i>CG17778</i>	X			Dysbindin, Pallidin	?
43	<i>CG13476</i>	3L			Dysbindin, Pallidin, BLOS1	?
44	<i>CG13085</i>	2L			Dysbindin	?
45	<i>CG17564</i>	2L			Dysbindin	<i>CLUAP1</i>
46	<i>CG32809</i>	X		Nucleotide binding	Dysbindin	<i>KIAA1217</i>
47	<i>ERR</i> (CG7404)	3L	estrogen-related receptor	Transcription factor, nuclear receptor activity	Dysbindin	<i>E5RRB</i>
48	<i>l(1)G043</i> (CG14788)	X	lethal (1) G0431	GTP binding	Pallidin	<i>LSG1</i>
49	<i>sip1</i> (CG7238)	2L	septin interacting protein 1	Nucleic acid binding	Pallidin	<i>TFIP11</i>
50	<i>HLH4C</i> (CG3052)	X	Helix loop helix protein 4C	Transcription factor	Snapi	<i>HLH1</i>
51	<i>CG6770</i>	2L		Oxidative stress response	Snapi	?
52	<i>CG7220</i>	2R		Ubiquitin-protein ligase activity	Snapi	<i>UBE2W</i>
53	<i>CG10466</i>	2L		RNA binding	BLOS2	<i>RBMX2</i>
54	<i>Dox-A2</i> (CG10484)	2L	Diphenol oxidase A2	Endopeptidase activity, phenol processing	BLOS2	<i>PSMD3</i>
55	<i>CG32369</i>	3L		ATP-dependent peptidase activity, ion and protein binding	Dysbindin, BLOS2	<i>LONRF3</i>
56	<i>CG13032</i>	3R			Dysbindin	<i>CCDC13</i>
57	<i>CG13993</i>	2L			Dysbindin	<i>PFDN1</i>

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58	CG17744	3L			Dysbindin	?
59	<i>mbo</i> (CG6819)	3R	mbo, members only	Immunity, nuclear export/import, nucleoporin	Dysbindin	<i>NUP88</i>
60	CG7242	3R	lethal (3) c00064		Dysbindin	?
61	CG8851	2L			Dysbindin	?
62	CG5053	3R			Pallidin	<i>RASSF8</i>
63	CG9418	2R		DNA binding, regulation of transcription	Pallidin	<i>HMG20A</i>
64	CG14534	2L		Nutrient reservoir activity	Snapin	?
65	<i>RpS20</i> (CG15693)	3R	Ribosomal protein S20	Translation, structural component of ribosome	Snapin	<i>RPS20</i>
66	<i>par-1</i> (CG30131)	2R	par-1	Multiple function, humoral response and ovum development	Snapin	<i>MARK3</i>
67	<i>tsr</i> (CG4254)	2R	Twinstar, ADFcofilin, Cofilin	Actin binding	Snapin	?
68	<i>stau</i> (CG5753)	2R	staufen	RNA binding	Snapin	<i>STAU1</i>
69	CG8206	X			Snapin	<i>DNLZ</i>
70	<i>TpnC4</i> (CG12408)	2R	TpnC4	Calcium ion binding, ciliary or flagellar motility	BLOS2	?
71	CG8907	3R			BLOS2	<i>EPS8L2</i>
72	CG13434	2R		Chromosome segregation	Dysbindin	?
73	<i>Srp68</i> (CG5064)	3L	Srp68	RNA binding, SRP dependent, co-translational protein	Dysbindin	<i>SRP68</i>
74	CG6156	3R			Dysbindin	<i>MCC</i>
75	CG7386	3L		Metallopeptidase, nucleic acid binding	Dysbindin	<i>LOC730087</i>
76	<i>Ag5r2</i> (CG9540)	X	Antigen 5-related 2		Pallidin	?
77	CG4830	3R		Long-chain fatty acid transporter, metabolism	Snapin	?
78	<i>Argk</i> (CG32031)	3L	Arginine kinase	Arginine kinase	BLOS1	?
79	<i>nop5</i> (CG10206)	2L	nop5	Ribosomal RNA processing	BLOS2	<i>NOP5/NOP58</i>
80	CG11698	3R			BLOS2	?
81	CG12589	3R			BLOS2	?
82	CG13005	X			BLOS2	?
83	CG13067	3L			BLOS2	?
84	CG15152	2L			BLOS2	?
85	<i>crc</i> (CG8669)	2L	cryptocephal	Transcription factor	BLOS2	<i>ATF4</i>
86	CG14928	2L			Dysbindin, BLOS1	?
87	CG14071	2L			Dysbindin, BLOS2	?
88	<i>crn</i> (CG3193)	X	Crooked neck, yolky	Malpighian tubule morphogenesis, development	Dysbindin	<i>CRNKL1</i>
89	<i>CkIIalpha-i3</i> (CG3217)	3L	CKII-alpha subunit interactor-3		Dysbindin	?
90	CG6905	3L		DNA binding, RNA splicing factor, spliceosome	Dysbindin	<i>CDC5L</i>
91	<i>Ef1alpha48D</i> (CG8280)	2R	Elongation factor 1alpha48D	GTP binding, translation	Pallidin	<i>EEF1A1</i>
92	<i>Art7</i> (CG9882)	2R	Arginine methyltransferase 7	Methyltransferase	Pallidin	<i>PRMT7</i>
93	CG7757	3L		Nuclear mRNA splicing	Snapin	<i>PRPF3</i>
94	<i>trsn</i> (CG11761)	2R	translin	DNA binding	Dysbindin	<i>TSN</i>
95	<i>Mnt</i> (CG13316)	X	Mnt	DNA binding, phagocytosis, regulation of transcription	Dysbindin	<i>MNT</i>
96	CG6569	3R			Dysbindin	?
97	<i>cnn</i> (CG4832)	2R	centrosomin	Microtubule binding, nuclear division	BLOS1	?
98	CG2930	X		Proton-dependent oligopeptide, transmembrane transporter	Dysbindin	<i>SLC15A2</i>
99	CG18528	3R		GTP binding, tRNA modification	BLOS2	<i>GTPBP3</i>
100	CG5933	3R		Methyltransferase	Dysbindin	<i>METTL3</i>
101	<i>rad50</i> (CG6339)	2R	rad50	DNA repair, chromosome organization and biogenesis	Dysbindin	<i>RAD50</i>
102	CG3726	X		Transcription factor	BLOS2	?

Footnotes:

^a As reported on either GeneOntology or the Summary section of NCBI Entrez Gene

References:

(For *HRS* and *rad50*):

PMID = 15710747 Formstecher E, Aresta S, Collura V, Hamburger A, et al (2005) Protein interaction mapping: a *Drosophila* case study. *Genome Res* **15**:376-384.

(For all other candidates):

PMID = 14605208 Giot L, Bader JS, Brouwer C, et al (2003) A protein interaction map of *Drosophila melanogaster*. *Science* **302**:1727-36.