Supplementary Table 1

Tissue-specific gene expression data are retrieved from FlyAtlas (Chintapalli et al., 2007).

Region 1 {w^{1118} $\log_2$ (M/F) > 1.5; tud^{1} progeny $\log_2$ (M/F) > 1.5}

Flybase ID	Gene symbol	Protein name	Log_2 (M/F) w^{1118}	Log_2 (M/F) *tudor* progeny	mRNA enrichment (accessory gland)[a]	mRNA enrichment (testis)[b]	mRNA enrichment (ovary)[c]
FBgn0002855	Acp26Aa	Accessory gland-specific peptide 26Aa	8.09	8.08	14.00	0.10	0.00
FBgn0011559	Acp36DE	Accessory gland peptide 36DE	9.00	7.80	7.50	0.10	0.00
FBgn0034153	Acp53C14b	Acp53C14b	5.82	3.60	5.90	0.10	0.00
FBgn0015586	Acp76A	Accessory gland-specific peptide 76A	6.45	6.04	16.00	0.10	0.00
FBgn0038985	bond	james bond	3.86	2.17	1.60	2.00	0.30
FBgn0038032	CG10096	CG10096	4.32	2.49	0.00	0.00	0.00
FBgn0038033	CG10097	CG10097	3.45	1.56	0.00	0.00	0.00
FBgn0032055	CG13091	CG13091	3.00	1.84	0.00	0.00	0.00
FBgn0040376	CG13759	CG13759	4.35	3.18	69.3	0.70	0.00
FBgn0250847	CG14034	CG14034	6.74	4.72	49.70	0.10	0.00
FBgn0034417	CG15117	CG15117	4.13	3.58	41.30	3.80	0.20
FBgn0032275	CG17097	CG17097	8.44	7.82	11.00	0.10	0.00
FBgn0040011	CG17494	CG17494	1.93	1.82	0.80	2.60	1.80
FBgn0038919	CG17843	CG17843	7.58	5.83	72.60	0.20	0.00
FBgn0030827	CG18258	CG18258	7.00	7.01	3.70	0.20	0.00
FBgn0050395	CG30395	CG30395	5.81	4.87	49.00	0.40	0.00
FBgn0051872	CG31872	CG31872	7.09	6.52	32.30	0.10	0.00
FBgn0032122	CG31883	CG31883	5.76	5.89	41.20	0.10	0.00
FBgn0054051	CG34051	CG34051	5.92	5.10	46.40	0.10	0.00
FBgn0030828	CG5162	CG5162	3.97	2.45	2.50	0.10	0.00
FBgn0036970	CG6289	CG6289	7.30	5.34	2.60	0.10	0.00
FBgn0036969	CG6663	CG6663	9.13	6.97	4.00	0.10	0.00

Region 1 continued

FBgn0000592	Est-6	Esterase 6	3.02	1.60	1.70	0.10	0.00
FBgn0032129	jp	junctophilin	1.54	1.63	0.40	0.20	0.10
FBgn0024211	mfas	midline fasciclin	1.95	2.52	24.00	1.30	0.30
FBgn0043530	Obp51a	Odorant-binding protein 51a	8.05	2.12	2.90	0.10	0.00
FBgn0028987	Spn2	Serine protease inhibitor 2	5.38	6.58	13.60	0.10	0.00
FBgn0028986	Spn3	Serine protease inhibitor 3	7.29	6.45	15.10	0.10	0.00

Region 2 {w^{1118} $\log_2$ (M/F) > 1.5; *tud*^{1} progeny -1.5 $\log_2 \leq$ (M/F) $\leq$ 1.5}

Flybase ID	Gene symbol	Protein name	Log_2 (M/F) w^{1118}	Log_2 (M/F) *tudor* progeny	mRNA enrichment (accessory gland)[a]	mRNA enrichment (testis)[b]	mRNA enrichment (ovary)[c]
FBgn0036650	Baldspot	Baldspot	2.00	1.32	0.10	0.60	0.60
FBgn0039311	CG10513	CG10513	1.64	-0.50	0.00	0.20	0.00
FBgn0034356	CG10924	CG10924	1.86	0.20	0.00	0.00	0.00
FBgn0053523	CG33523	CG33523	1.75	1.45	0.30/2.00	1.60/3.40	0.20/0.80
FBgn0038373	CG4546	CG4546	7.63	0.00	0.00	10.00	0.00
FBgn0034229	CG4847	CG4847	2.61	0.63	19.80	0.10	0.00
FBgn0039553	CG5017	CG5017	5.10	-0.60	0.00	8.90	0.00
FBgn0038074	CG6188	CG6188	2.13	0.05	0.40	0.10	0.00
FBgn0036415	CG7768	CG7768	6.01	-0.40	1.00/0.00	1.30/7.40	0.40/0.00
FBgn0037765	CG9458	CG9458	1.81	0.15	0.00	0.00	0.00
FBgn0086907	Cyt-c-d	Cytochrome c distal	5.93	0.39	0.10	8.30	0.00
FBgn0000615	exu	exuperantia	2.12	0.09	0.00/0.00	5.00/1.80	0.00/1.70
FBgn0001112	Gld	Glucose dehydrogenase	4.14	1.42	2.00	0.10	0.00
FBgn0010041	GstD5	Glutathione S transferase D5	3.14	0.28	5.40	11.30	0.20
FBgn0031728	Hsp60C	Hsp60C	6.25	-1.20	0.00	6.20	0.00

Region 2 continued

FBgn0001230	Hsp68	Heat shock protein 68	2.66	0.67	0.00	9.30	0.20
FBgn0033268	Obp44a	Obp44a	2.09	0.40	0.00	3.30	0.00
FBgn0069354	Porin2	Porin2	9.18	-0.70	0.00	12.90	0.00
FBgn0033518	Prx2540-2	Peroxiredoxin 2540	1.73	0.00	0.10	4.20	0.10
FBgn0028988	Spn1	Serine protease inhibitor 1	2.32	1.09	25.80	0.10	0.00
FBgn0044812	TotC	Turandot C	1.85	-0.60	0.00	0.00	0.00
FBgn0035965	Use1	Use1	2.56	-0.20	2.30	0.90	1.60
FBgn0004003	wbl	windbeutel	2.25	1.31	30.10	0.40	0.40

Region 4 {w^{1118} -1.5 ≤ $\log_2$ (M/F) ≤ 1.5; *tud*^{1} progeny $\log_2$ (M/F) < -1.5}

Flybase ID	Gene symbol	Protein name	Log_2 (M/F) w^{1118}	Log_2 (M/F) *tudor* progeny	mRNA enrichment (accessory gland)[a]	mRNA enrichment (testis)[b]	mRNA enrichment (ovary)[c]
FBgn0037288	CG14661	CG14661	-0.70	-1.60	0.00	0.00	0.00
FBgn0040001	CG17374	CG17374	-0.40	-1.70	0.00	0.00	0.00
FBgn0038973	CG18594	CG18594	-0.80	-2.30	0.00	0.00	0.00
FBgn0050291	CG30291	CG30291	0.65	-1.80	3.30	0.50	1.20
FBgn0035989	CG3967	CG3967	0.95	-1.50	2.00/1.30	1.60/0.30	2.20/2.20
FBgn0032235	CG5096	CG5096	-0.10	-1.60	0.30/0.00	0.00/0.00	0.40/0.00
FBgn0035926	CG5804	CG5804	-0.50	-1.60	0.00	0.00	0.00
FBgn0039184	CG6432	CG6432	0.69	-1.80	0.10	0.00	0.00
FBgn0250836	CG8628	CG8628	-0.30	-1.60	0.00	0.00	0.00
FBgn0023081	gek	genghis khan	-0.40	-4.30	0.70	0.30	1.70
FBgn0004828	His3.3B	Histone H3.3B	0.17	-1.50	1.10	0.30	1.40
FBgn0028582	lqf	liquid facets	-0.10	-2.40	1.60	0.20	0.70
FBgn0002565	Lsp2	Larval serum protein 2	0.00	-3.60	0.60	0.40	0.30
FBgn0002940	ninaE	neither inactivation nor afterpotential E	0.09	-1.50	0.00	0.00	0.00
FBgn0039678	Obp99a	Odorant-binding protein 99a	-0.70	-6.50	0.00	3.20	0.10
FBgn0004867	sop	string of pearls	-1.30	-2.10	2.40	0.30	0.90

Region 4 continued

FBgn0015544	spag	spaghetti	-0.70	-2.40	0.50	1.50	2.00

Region 5 {w^{1118} ≤ $\log_2$ (M/F) < -1.5; tud^1 progeny $\log_2$ (M/F) < -1.5}

Flybase ID	Gene symbol	Protein name	$\log_2$ (M/F) w^{1118}	$\log_2$ (M/F) *tudor* progeny	mRNA enrichment (accessory gland)[a]	mRNA enrichment (testis)[b]	mRNA enrichment (ovary)[c]
FBgn0000427	dec-1	defective chorion 1	-6.20	-2.00	0.00	0.00	1.50
FBgn0030086	CG7033	CG7033	-2.10	-2.70	0.80	0.30	1.40
FBgn0029172	Fad2	Fad2	-5.40	-6.20	0.00	0.00	0.00
FBgn0003022	Ote	Otefin	-1.50	-1.80	0.10	0.40	2.50
FBgn0004045	Yp1	Yolk protein 1	-4.50	-6.20	0.00	0.00	0.60
FBgn0005391	Yp2	Yolk protein 2	-5.40	-5.10	0.00	0.00	0.60
FBgn0004047	Yp3	Yolk protein 3	-7.60	-6.80	0.00	0.00	0.40

Region 6 {w^{1118} $\log_2$ (M/F) < -1.5; tud^1 progeny -1.5 ≤ $\log_2$ (M/F) ≤ 1.5}

Flybase ID	Gene symbol	Protein name	$\log_2$ (M/F) w^{1118}	$\log_2$ (M/F) *tudor* progeny	mRNA enrichment (accessory gland)[a]	mRNA enrichment (testis)[b]	mRNA enrichment (ovary)[c]
FBgn0087040	αTub67C	α-Tubulin at 67C	-7.90	-0.90	0.00	0.00	1.70
FBgn0250848	26-29-p	26-29kD-proteinase	-3.10	-0.20	0.10	0.30	1.30
FBgn0000043	Act42A	Actin 42A	-2.00	0.81	0.70	1.30	0.90
FBgn0014455	Ahcy13	Adenosyl-homocysteinase at 13	-1.60	-0.60	1.10	0.10	1.30
FBgn0034366	Atg7	Autophagy-specific gene 7	-1.60	0.60	1.30	0.60	1.60
FBgn0000181	bic	bicaudal	-1.50	-0.40	6.50	0.90	0.90
FBgn0011570	cpb	Capping protein beta	-2.00	0.91	1.50	0.40	1.60
FBgn0015019	Cctγ	Cctγ	-1.80	-1.40	0.40	0.40	1.50
FBgn0035630	CG10576	CG10576	-1.90	-0.80	2.00	0.70	1.30
FBgn0037930	CG14715	CG14715	-2.20	-0.50	0.80	0.20	1.30
FBgn0040010	CG17493	CG17493	-1.50	-0.30	1.00	0.20	2.00

Region 6 continued

FBgn0031148	CG1753	CG1753	-2.80	0.27	0.90	0.10	1.80
FBgn0042134	CG18811	CG18811	-2.60	0.00	1.30	0.50	2.30
FBgn0029882	CG3226	CG3226	-1.60	-0.30	0.80	0.70	1.70
FBgn0032949	CG3305	CG3305	-1.80	-0.90	1.70	0.70	1.00
FBgn0053123	CG33123	CG33123	-1.50	-0.20	1.80	0.30	1.60
FBgn0259682	CG42351	CG42351	-3.70	-0.90	0.00/0.00	0.10/0.00	0.40/1.70
FBgn0032444	CG5525	CG5525	-2.00	0.00	0.50	0.40	1.50
FBgn0036548	CG5931	CG5931	-1.50	0.64	1.20	0.50	2.30
FBgn0026079	CG6133	CG6133	-1.50	0.00	1.70	0.50	1.70
FBgn0035901	CG6745	CG6745	-1.70	0.00	0.70	0.50	2.10
FBgn0030086	CG7033	CG7033	-2.00	0.10	0.80	0.30	1.40
FBgn0032026	CG7627	CG7627	-1.70	-0.20	0.20	0.10	2.80
FBgn0039735	CG7911	CG7911	-1.80	0.23	1.00/1.00	0.30/0.80	1.30/1.80
FBgn0037624	CG8223	CG8223	-3.80	-0.10	0.60	0.10	2.20
FBgn0033342	CG8258	CG8258	-2.00	-0.10	0.60	0.40	1.40
FBgn0037756	CG8507	CG8507	-1.80	0.00	0.70	0.30	1.90
FBgn0030672	CG9281	CG9281	-1.50	0.00	2.60	0.10	1.20
FBgn0035726	CG9953	CG9953	-1.90	-0.70	0.60	0.30	1.10
FBgn0015610	Caf1	Chromatin assembly factor 1 subunit	-2.70	-0.70	0.40	0.30	1.70
FBgn0026084	cib	ciboulot	-1.50	0.22	0.80/0.30	1.20/0.50	1.50/1.30
FBgn0027055	CSN3	COP9 complex homolog subunit 3	-2.20	0.48	1.60	1.20	1.50
FBgn0013770	Cp1	Cysteine proteinase-1	-1.50	-0.40	1.50	0.50	0.90
FBgn0250837	dUTPase	Deoxyuridine triphosphatase	-4.90	-1.10	0.30	1.00	2.30
FBgn0032198	eEF1δ	eEF1δ	-1.60	-0.60	1.50	0.40	1.20
FBgn0015218	eIF-4E	Eukaryotic initiation factor 4E	-2.40	-0.80	1.60	0.80	1.60
FBgn0000986	Fs(2)Ket	Female sterile (2) Ketel	-2.70	0.62	0.20	0.10	2.30
FBgn0003062	Fib	Fibrillarin	-1.80	0.41	1.40	0.50	1.70

Region 6 continued

FBgn0013269	FK506-bp1	FK506-binding protein 1	-2.60	0.77	0.80	0.20	2.10
FBgn0015393	hoip	hoi-polloi	-1.70	-0.10	0.60	0.10	1.50
FBgn0087013	Karyβ3	Karyopherin β 3	-1.60	-1.10	1.20	0.50	1.10
FBgn0011638	La	La autoantigen-like	-1.80	-0.80	0.50	0.20	1.60
FBgn0030608	Lsd-2	Lipid storage droplet-2	-1.50	-0.50	0.40	0.00	1.40
FBgn0034282	Map-modulin	Mapmodulin	-1.60	0.18	0.50	0.80	2.00
FBgn0004419	me31B	maternal expression at 31B	-4.90	0.17	0.20	0.20	1.50
FBgn0026252	msk	moleskin	-1.70	-0.30	0.90	0.30	1.80
FBgn0025390	Mur2B	Mucin related 2B	-4.00	1.38	0.10	0.00	1.80
FBgn0005655	mus209	mutagen-sensitive 209	-5.60	0.73	0.00	0.10	1.80
FBgn0086904	Nacalpha	Nascent polypeptide associated complex protein alpha subunit	-1.60	0.00	1.70	0.30	1.10
FBgn0010488	NAT1	NAT1	-1.50	0.13	0.80	0.90	1.40
FBgn0029148	NHP2	NHP2	-2.00	0.00	1.20	0.10	1.70
FBgn0020392	Nmt	N-myristoyl transferase	-1.50	-0.60	0.20	0.40	1.80
FBgn0026196	nop5	nop5	-1.80	1.21	0.80	0.10	2.20
FBgn0038964	Nop56	Nop56	-1.80	0.64	1.00	0.20	1.80
FBgn0259937	Nop60B	Nucleolar protein at 60B	-1.80	0.66	0.60	0.10	2.00
FBgn0016685	Nlp	Nucleoplasmin	-2.20	-0.40	1.40	0.30	1.40
FBgn0015268	Nap1	Nucleosome assembly protein 1	-2.50	0.00	0.90	0.10	1.20
FBgn0027868	Nup107	Nup107	-1.50	-1.40	1.00	0.30	1.70
FBgn0039302	Nup358	Nup358	-1.50	0.65	1.00	0.60	2.50
FBgn0011823	Pen	Pendulin	-5.00	-1.20	0.00	1.80	1.20
FBgn0003042	Pc	Polycomb	-1.50	-1.10	0.80	0.20	3.40
FBgn0024733	Qm	Qm	-1.50	-1.10	2.30	0.40	0.80

Region 6 continued

FBgn0003204	ras	raspberry	-1.90	-0.50	1.20	0.10	1.60
FBgn0015477	Rme-8	Receptor mediated endocytosis 8	-3.20	-0.60	0.90	0.80	2.00
FBgn0020618	Rack1	Receptor of activated protein kinase C 1	-1.50	-1.00	2.50	0.20	0.90
FBgn0029133	REG	REG	-1.80	-0.40	1.90	0.80	1.30
FBgn0010173	RpA-70	Replication Protein A 70	-2.90	0.00	0.30	0.50	1.90
FBgn0032906	RPA2	Replication protein A2	-3.40	-0.50	0.00	0.30	2.20
FBgn0011703	RnrL	Ribonucleoside diphosphate reductase large subunit	-3.50	-0.10	0.00	0.00	2.00
FBgn0011272	RpL13	Ribosomal protein L13	-1.50	-0.50	2.20	0.20	0.80
FBgn0002607	RpL19	Ribosomal protein L19	-1.50	-0.70	2.20	0.30	0.90
FBgn0010410	RpL27A	Ribosomal protein L27A	-1.60	-0.50	2.20	0.30	0.80
FBgn0086710	RpL30	Ribosomal protein L30	-1.60	-0.40	2.50	0.20	0.90
FBgn0037328	RpL35A	Ribosomal protein L35A	-1.70	-0.40	2.00	0.20	0.90
FBgn0031980	RpL36A	Ribosomal protein L36A	-1.50	0.00	2.10	0.20	0.80
FBgn0014026	RpL7A	Ribosomal protein L7A	-1.50	-0.70	2.30	0.20	1.00
FBgn0000100	RpLP0	Ribosomal protein LP0	-1.60	-0.70	2.10	0.20	0.90
FBgn0034751	RpS24	Ribosomal protein S24	-1.70	0.00	2.30	0.20	0.90
FBgn0002622	RpS3	Ribosomal protein S3	-1.50	-0.40	2.30	0.30	0.80
FBgn0003189	r	rudimentary	-2.30	0.43	1.40	0.70	1.70
FBgn0003257	r-l	rudimentary-like	-2.50	0.73	0.90	0.10	2.10
FBgn0000416	Sap-r	Saposin-related	-2.10	-0.70	1.60	0.60	0.80
FBgn0029113	Uba2	Smt3 activating enzyme 2	-2.00	0.08	0.50	0.40	2.20

Region 6 continued

FBgn0037434	snRNP2	snRNP2	-1.60	-0.10	2.00	0.30	1.80
FBgn0037723	SpdS	Spermidine Synthase	-1.90	-1.30	0.20	0.10	2.00
FBgn0051641	stai	stathmin	-5.50	-0.50	0.10	0.60	1.80
FBgn0003517	sta	stubarista	-1.50	-1.00	2.50	0.20	0.90
FBgn0010621	Cct5	T-complex Chaperonin 5	-1.90	0.09	0.50	0.30	1.40
FBgn0027329	T-cp1ζ	T-cp1ζ	-1.90	-0.70	0.60	0.20	1.70
FBgn0037632	Tcp-1η	Tcp-1η	-2.10	-0.80	0.40	0.30	1.50
FBgn0003676	T-cp1	Tcp1-like	-1.80	0.00	0.60	0.30	1.50
FBgn0003732	Top2	Topoisomerase 2	-1.60	0.83	0.90	0.50	2.60
FBgn0041775	tral	trailer hitch	-4.80	-1.10	0.10	0.30	1.60
FBgn0004889	tws	twins	-2.10	0.11	0.80	0.20	1.20
FBgn0051852	Tap42	Two A-associated protein of 42kDa	-1.90	0.00	0.80	1.20	1.60
FBgn0011327	Uch-L3	Ubiquitin C-terminal hydrolase	-1.60	-0.20	0.30	3.60	1.80
FBgn0046214	vig2	vig2	-2.40	0.67	1.20	0.40	1.30

Region 7 {w^{1118} $\log_2$ (M/F) < -1.5; tud^{1} progeny $\log_2$ (M/F) > 1.5}

Flybase ID	Gene symbol	Protein name	Log_2 (M/F) w^{1118}	Log_2 (M/F) *tudor* progeny	mRNA enrichment (accessory gland)	mRNA enrichment (testis)	mRNA enrichment (ovary)
FBgn0022213	Cas	CAS/CSE1 segregation protein	-2.50	1.64	0.30	0.30	1.80
FBgn0029704	CG2982	CG2982	-2.00	2.18	0.40	0.40	1.80
FBgn0022343	CG3760	CG3760	-1.60	2.38	1.90	0.70	1.60
FBgn0000360	Cp38	Chorion protein 38	-4.60	2.18	0.00	0.00	1.30
FBgn0030268	Klp10A	Klp10A	-1.90	1.71	0.10	3.10	2.00
FBgn0027783	SMC2	SMC2	-3.10	2.15	0.20	0.60	3.00

Region 8 {w^{1118} -1.5 ≤ $\log_2$ (M/F) ≤ 1.5; tud^1 progeny $\log_2$ (M/F) > 1.5}

Flybase ID	Gene symbol	Protein name	$\log_2$ (M/F) w^{1118}	$\log_2$ (M/F) *tudor* progeny	mRNA enrichment (accessory gland)[a]	mRNA enrichment (testis)[b]	mRNA enrichment (ovary)[c]
FBgn0027885	Aac11	Aac11	-0.20	2.61	2.90	1.00	1.50
FBgn0033504	CAP	CAP	0.58	1.60	2.20	0.40	0.30
FBgn0038395	CG10407	CG10407	0.50	1.69	0.10	2.90	0.60
FBgn0033021	CG10417	CG10417	-0.30	1.65	0.50	0.40	2.20
FBgn0033448	CG1623	CG1623	0.00	2.44	2.70	0.20	0.20
FBgn0030321	CG1703	CG1703	-1.30	2.04	1.20	0.60	1.70
FBgn0032775	CG17544	CG17544	0.64	2.93	0.40	0.40	0.60
FBgn0000299	Cg25C	Collagen type IV	-0.10	1.91	0.20	0.20	0.70
FBgn0031673	CG31650	CG31650	0.46	2.05	0.60	2.00	1.90
FBgn0052528	CG32528	CG32528	0.49	1.89	0.70	0.30	1.40
FBgn0028916	CG33090	CG33090	-0.20	4.45	0.30/0.10	0.40/0.40	1.10/1.70
FBgn0038516	CG5840	CG5840	0.78	1.60	0.10	0.10	0.10
FBgn0039229	CG6995	CG6995	0.07	1.99	1.40	0.60	2.50
FBgn0035878	CG7182	CG7182	-0.80	2.09	0.50	1.60	1.70
FBgn0035510	Cpr64Aa	Cuticular protein 64Aa	-1.40	1.69	3.40	0.30	0.30
FBgn0015933	didum	dilute class unconventional myosin	-0.50	2.47	1.80	0.20	2.40
FBgn0063485	Lasp	Lasp	0.41	2.27	0.30	9.30	1.10
FBgn0033179	p47	p47	-0.70	3.08	0.90	1.60	1.30
FBgn0015288	RpL22	Ribosomal protein L22	-1.20	1.69	2.40	0.20	0.80
FBgn0016983	smid	smallminded	-0.90	2.23	0.60	0.20	2.20
FBgn0040091	Ugt58Fa	Ugt58Fa	-0.60	3.40	1.80	0.50	0.60
FBgn0035917	Zasp66	Z band alternatively spliced PDZ-motif protein 66	0.79	2.25	0.40/0.80/ 0.60	0.10/0.10/ 0.10	0.00/0.10/ 0.10