

Supplementary Table 1.

chromosome	TE ID	class	geneCG	geneFB	geneOther	Region	orientation
4		1483 LINE-like	CG17964	FBgn0022393	pan	intron	1
4		1492 LINE-like	CG1587	FBgn0024811	Crk	flank	0
4		1497 LINE-like	CG2381	FBgn0039901	Syt7	intron	1
4		1516 LINE-like	CG11533	FBgn0039908	CG11533	intron	0
4		1519 LINE-like	CG11260	FBgn0039912	CG11260	flank	1
4		1547 LINE-like	CG11186	FBgn0019650	toy	intron	1
4		1554 LINE-like	CG17461	FBgn0039925	Kif3C	intron	0
4		1555 LINE-like	CG17461	FBgn0039925	Kif3C	intron	0
4		1560 LINE-like	CG17743	FBgn0024914	pho	intron	1
4		1562 LINE-like	CG17743	FBgn0024914	pho	intron	1
4		1563 LINE-like	CG17743	FBgn0024914	pho	intron	0
4		1572 LINE-like	CG18026	FBgn0040042	Caps	intron	1
2L		277 LINE-like	CG31973	FBgn0051973	CG31973	intron	0
2L		279 LINE-like	CG18497	FBgn0016977	spen	intron	0
2L		287 LINE-like	CG14351	FBgn0031349	CG14351	intron	1
2L		295 LINE-like	CG17302	FBgn0031443	CG17302	flank	1
2L		303 LINE-like	CG12676	FBgn0031582	ed	intron	0
2L		307 LINE-like	CG12787	FBgn0031647	hoe1	intron	1
2L		310 LINE-like	CG12512	FBgn0031703	CG12512	flank	1
2L		325 LINE-like	CG7356	FBgn0031975	CG7356	intron	1
2L		331 LINE-like	CG13109	FBgn0041092	tai	intron	0
2L		345 LINE-like	CG31757	FBgn0032380	CG31757	intron	0
2L		349 LINE-like	CG6214	FBgn0032456	CG6214	intron	1
2L		350 LINE-like	CG6214	FBgn0032456	CG6214	intron	0
2L		358 LINE-like	CG5945	FBgn0032494	CG5945	flank	1
2L		359 LINE-like	CG7110	FBgn0032521	CG7110	intron	1
2L		361 LINE-like	CG31846	FBgn0047322	CG31846	intron	0
2L		363 LINE-like	CG7147	FBgn0010555	kuz	intron	1
2L		364 LINE-like	CG7147	FBgn0010555	kuz	intron	0
2L		370 LINE-like	CG3479	FBgn0027874	osp	intron	1
2L		397 LINE-like	CG7100	FBgn0019859	CadN	intron	0
2L		406 LINE-like	CG15162	FBgn0032694	MESR3	intron	0
2L		408 LINE-like	CG17559	FBgn0024245	dnt	intron	0
2L		410 LINE-like	CG17559	FBgn0024245	dnt	intron	0
2L		412 LINE-like	CG10188	FBgn0032796	CG10188	intron	1
2L		413 LINE-like	CG10443	FBgn0010057	Lar	intron	1
2L		417 LINE-like	CG10443	FBgn0010057	Lar	intron	1
2L		477 LINE-like	CG9339	FBgn0032901	CG9339	intron	1
2L		485 LINE-like	CG8671	FBgn0032938	CG8671	intron	0
2L		486 LINE-like	CG8671	FBgn0032938	CG8671	intron	1
2L		546 LINE-like	CR12628	FBgn0032985	Mgstl-&PSgr;	flank	1
2L		549 LINE-like	CG3278			flank	0
2L		550 LINE-like	CG16937	FBgn0032991	CG16937	flank	1
2L		570 LINE-like	CG17018	FBgn0039971	CG17018	intron	1
2L		571 LINE-like	CG17018	FBgn0039971	CG17018	intron	1
2L		572 LINE-like	CG17018	FBgn0039971	CG17018	intron	1
2L		575 LINE-like	CG17018	FBgn0039971	CG17018	intron	0
2R		624 LINE-like	CG3136	FBgn0033010	CG3136	intron	0
2R		629 LINE-like	CG2905	FBgn0039989	Tra1	intron	1
2R		667 LINE-like	CG30437	FBgn0050437	CG30437	intron	0
2R		668 LINE-like	CG30437	FBgn0050437	CG30437	intron	0
2R		672 LINE-like	CG30440	FBgn0033025	CG30440	intron	0
2R		675 LINE-like	CG30438	FBgn0050438	CG30438	intron	0
2R		707 LINE-like	CG1765	FBgn0000546	EcR	intron	0
2R		763 LINE-like	CG11084	FBgn0003477	pk	intron	0
2R		768 LINE-like	CG11121	FBgn0004874	so	flank	0
2R		769 LINE-like	CG1358	FBgn0033196	CG1358	intron	1
2R		776 LINE-like	CG2121	FBgn0033290	CG2121	intron	0
2R		779 LINE-like	CG30361	FBgn0050361	CG30361	intron	1
2R		794 LINE-like	CG1429	FBgn0011656	Mef2	intron	0
2R		807 LINE-like	CG33473	FBgn0033575	luna	intron	1
2R		809 LINE-like	CG7734	FBgn0013727	shn	intron	0
2R		814 LINE-like	CG8824	FBgn0033745	fdl	intron	0

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Supplementary Table 1. Continued

chromosome	TE ID	class	geneCG	geneFB	geneOther	Region	orientation
2R		819 LINE-like	CG17054	FBgn0033795	Cap-G	intron	0
2R		820 LINE-like	CG6191	FBgn0027581	CG6191	intron	1
2R		822 LINE-like	CG18076	FBgn0021937	shot	intron	0
2R		841 LINE-like	CG33197	FBgn0020274	mbl	intron	1
2R		842 LINE-like	CG30104	FBgn0034226	CG30104	intron	1
2R		846 LINE-like	CG5767	FBgn0034292	CG5767	flank	0
2R		864 LINE-like	CG15226	FBgn0034550	CG15226	flank	1
2R		869 LINE-like	CG11206	FBgn0034720	CG11206	intron	1
2R		870 LINE-like	CG11206	FBgn0034720	CG11206	intron	0
2R		872 LINE-like	CG4444			intron	1
2R		886 LINE-like	CG3894	FBgn0035059	CG3894	UTR	1
3L		901 LINE-like	CG1086	FBgn0025593	Glut1	intron	0
3L		905 LINE-like	CG9181	FBgn0043788	Ptp61F	UTR	0
3L		912 LINE-like	CG32296	FBgn0052296	CG32296	intron	0
3L		918 LINE-like	CG12017	FBgn0035429	CG12017	intron	1
3L		925 LINE-like	CG32239	FBgn0062671	Gef64C	intron	0
3L		933 LINE-like	CG10977	FBgn0035651	CG10977	flank	0
3L		934 LINE-like	CG32406	FBgn0035659	CG32406	intron	0
3L		935 LINE-like	CG6467	FBgn0035664	CG6467	flank	0
3L		949 LINE-like	CG8539	FBgn0035791	CG8539	flank	0
3L		957 LINE-like	CG7213	FBgn0035861	CG7213	intron	1
3L		960 LINE-like	CG32030	FBgn0035927	CG32030	intron	1
3L		966 LINE-like	CG4080	FBgn0035983	CG4080	intron	0
3L		968 LINE-like	CG14179	FBgn0035994	CG14179	flank	1
3L		972 LINE-like	CG32048	FBgn0061389	CG32048	intron	0
3L		973 LINE-like	CG32048	FBgn0061389	CG32048	intron	0
3L		976 LINE-like	CG12362	FBgn0036082	CG12362	flank	0
3L		978 LINE-like	CG32073	FBgn0052073	CG32073	flank	0
3L		984 LINE-like	CG7314	FBgn0036199	Bmcp	intron	1
3L		990 LINE-like	CG12478	FBgn0036379	bru-3	intron	0
3L		996 LINE-like	CG17697	FBgn0001085	fz	intron	0
3L		999 LINE-like	CG32145			intron	1
3L		1000 LINE-like	CG32145			intron	1
3L		1009 LINE-like	CG13444	FBgn0046788	CG13444	flank	0
3L		1013 LINE-like	CG32158	FBgn0036636	CG32158	intron	1
3L		1017 LINE-like	CG9680	FBgn0004556	Dbp73D	flank	1
3L		1022 LINE-like	CG32183	FBgn0036748	CG32183	intron	0
3L		1041 LINE-like	CG4216	FBgn0003683	term	flank	0
3L		1045 LINE-like	CG11614	FBgn0036840	nkd	intron	0
3L		1049 LINE-like	CG32206	FBgn0036867	CG32206	intron	1
3L		1057 LINE-like	CG8287	FBgn0015796	Rab8	flank	1
3L		1081 LINE-like	CG7204	FBgn0037085	Neu2	flank	0
3L		1084 LINE-like	CG32444	FBgn0037112	CG32444	intron	0
3L		1085 LINE-like	CG7152	FBgn0037132	Syn1	intron	0
3L		1086 LINE-like	CG7152	FBgn0037132	Syn1	intron	1
3L		1098 LINE-like	CG32451	FBgn0037190	CG32451	intron	1
3L		1101 LINE-like	CG33170	FBgn0064990	CG33170	intron	0
3L		1109 LINE-like	CG8779	FBgn0005629	nrm	intron	1
3L		1161 LINE-like	CG17947	FBgn0010215	&agr;-Cat	intron	1
3L		1165 LINE-like	CG32231	FBgn0052231	CG32231	flank	1
3L		1168 LINE-like	CG12414	FBgn0037211	nAcR&agr;-80B	intron	1
3L		1170 LINE-like	CG12414	FBgn0037211	nAcR&agr;-80B	intron	1
3R		1190 LINE-like	CG32944	FBgn0037246	CG32944	intron	1
3R		1209 LINE-like	CG31530	FBgn0037272	CG31530	intron	0
3R		1227 LINE-like	CG10981	FBgn0037384	CG10981	flank	0
3R		1233 LINE-like	CG15589	FBgn0037409	CG15589	intron	1
3R		1236 LINE-like	CG10272			intron	1
3R		1239 LINE-like	CG2345	FBgn0000552	Edg84A	flank	1
3R		1240 LINE-like	CG31481	FBgn0063631	pb	intron	1
3R		1241 LINE-like	CG1101	FBgn0027857	Aly	flank	1
3R		1263 LINE-like	CG7900	FBgn0037548	CG7900	flank	0
3R		1268 LINE-like	CG8112	FBgn0037612	CG8112	intron	0
3R		1278 LINE-like	CG8861	FBgn0037676	CG8861	intron	0
3R		1284 LINE-like	CG3999	FBgn0037801	CG3999	flank	0

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Supplementary Table 1. Continued

chromosome	TE ID	class	geneCG	geneFB	geneOther	Region	orientation
3R		1285 LINE-like	CG6284	FBgn0037802	Sirt6	UTR	0
3R		1353 LINE-like	CG9813	FBgn0038143	CG9813	intron	0
3R		1356 LINE-like	CG9924	FBgn0038192	CG9924	intron	0
3R		1358 LINE-like	CG9652	FBgn0011582	DopR	intron	0
3R		1363 LINE-like	CG33485	FBgn0053485	CG33485	intron	0
3R		1366 LINE-like	CG6912	FBgn0038290	CG6912	flank	1
3R		1374 LINE-like	CG14334	FBgn0063055	beat-IIa	intron	1
3R		1387 LINE-like	CG31475	FBgn0038688	CG31475	intron	1
3R		1390 LINE-like	CG7535	FBgn0063176	GluCl&agr;	intron	1
3R		1396 LINE-like	CG4288	FBgn0038799	CG4288	flank	0
3R		1398 LINE-like	CG17274	FBgn0038835	CG17274	UTR	0
3R		1413 LINE-like	CG33100	FBgn0039148	CG33100	intron	1
3R		1418 LINE-like	CG6863	FBgn0004885	tok	intron	0
3R		1419 LINE-like	CG11771	FBgn0039252	CG11771	flank	1
3R		1420 LINE-like	CG10618	FBgn0039327	CG10618	flank	1
3R		1441 LINE-like	CG12870	FBgn0039570	CG12870	intron	0
3R		1450 LINE-like	CG11958	FBgn0039660	Cnx99A	flank	0
3R		1452 LINE-like	CG18741	FBgn0015129	DopR2	intron	1
3R		1461 LINE-like	CG31022	FBgn0039775	PH4&agr;EFB	intron	0
X		1LINE-like	CG3777	FBgn0024989	CG3777	intron	0
X		10 LINE-like	CG32814	FBgn0052814	CG32814	intron	0
X		11 LINE-like	CG32814	FBgn0052814	CG32814	intron	1
X		14 LINE-like	CG11420	FBgn0000826	png	flank	1
X		60 LINE-like	CG10706	FBgn0029758	SK	flank	0
X		62 LINE-like	CG16752	FBgn0029768	CG16752	intron	1
X		64 LINE-like	CG32758	FBgn0029796	CG32758	intron	0
X		83 LINE-like	CG2233	FBgn0029990	CG2233	flank	1
X		87 LINE-like	CG12661	FBgn0030071	CG12661	flank	0
X		90 LINE-like	CG32700	FBgn0030134	CG32700	intron	0
X		113 LINE-like	CG32659	FBgn0026800	Ten-a	intron	0
X		117 LINE-like	CG1673	FBgn0030482	CG1673	flank	1
X		126 LINE-like	CG32600	FBgn0030567	CG32600	intron	0
X		129 LINE-like	CG18657	FBgn0015773	NetA	intron	1
X		130 LINE-like	CG5347	FBgn0030578	CG5347	flank	0
X		137 LINE-like	CG6146	FBgn0004924	Top1	flank	1
X		141 LINE-like	CG8231	FBgn0030681	l(1)G0022	flank	1
X		145 LINE-like	CG4928	FBgn0027556	CG4928	intron	1
X		149 LINE-like	CG5424	FBgn0000630	f	intron	0
X		155 LINE-like	CG5907	FBgn0004120	Frq	intron	0
X		161 LINE-like	CG18259	FBgn0030956	CG18259	flank	1
X		163 LINE-like	CG14190	FBgn0030979	CG14190	flank	0
X		178 LINE-like	CG33491	FBgn0053491	CG33491	flank	0
X		179 LINE-like	CG32823	FBgn0052823	Sdic:CG32	flank	0
X		180 LINE-like	CG33499	FBgn0053499	Sdic:CG33	flank	0
X		181 LINE-like	CG18000	FBgn0013761	sw	flank	0
X		184 LINE-like	CG11734	FBgn0031107	HERC2	intron	0
X		188 LINE-like	CG2071	FBgn0011834	Ser6	flank	1
X		275 LINE-like	CG12446	FBgn0031201	CG12446	flank	0
4		1478 LTR	CR32010	FBgn0052010	CR32010	intron	0
4		1496 LTR	CG2381	FBgn0039901	Syt7	intron	1
4		1505 LTR	CG32850	FBgn0062444	CG32850	UTR	1
4		1506 LTR	CG2165	FBgn0039903	CG2165	intron	0
2L		280 LTR	CG11907	FBgn0025211	Ent1	flank	1
2L		281 LTR	CG17941	FBgn0000497	ds	intron	1
2L		285 LTR	CG14343	FBgn0031325	CG14343	flank	1
2L		289 LTR	CG31666	FBgn0051666	CG31666	intron	1
2L		294 LTR	CG18559	FBgn0041337	Cyp309a2	intron	0
2L		298 LTR	CG9660	FBgn0010486	toc	intron	0
2L		302 LTR	CG10033	FBgn0000721	for	intron	0
2L		316 LTR	CG9527	FBgn0031813	CG9527	UTR	0
2L		319 LTR	CG4969	FBgn0031902	Wnt6	flank	1
2L		323 LTR	CG7231	FBgn0031968	CG7231	UTR	1
2L		324 LTR	CG7356	FBgn0031975	CG7356	intron	1
2L		326 LTR	CG17608	FBgn0026718	fu12	intron	0

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Supplementary Table 1. Continued

chromosome	TE ID	class	geneCG	geneFB	geneOther	Region	orientation
2L		326 LTR	CG17608	FBgn0026718	fu12	intron	0
2L		327 LTR	CG18405	FBgn0063028	Sema-1a	intron	0
2L		328 LTR	CG12437	FBgn0010627	raw	intron	1
2L		336 LTR	CG31721	FBgn0051721	Trim9	intron	0
2L		338 LTR	CG31723	FBgn0051723	CG31723	flank	0
2L		360 LTR	CG16954	FBgn0032525	CG16954	flank	1
2L		362 LTR	CG9239	FBgn0040974	B4	intron	1
2L		366 LTR	CG31811	FBgn0040976	cenG1A	intron	0
2L		371 LTR	CG3479	FBgn0027874	osp	intron	1
2L		374 LTR	CG4482	FBgn0027871	mol	intron	0
2L		383 LTR	CG3938	FBgn0015389	CycE	UTR	0
2L		390 LTR	CG5953	FBgn0032587	CG5953	intron	0
2L		402 LTR	CG15151	FBgn0032661	PFE	intron	1
2L		407 LTR	CG10719	FBgn0004827	brat	intron	1
2L		409 LTR	CG17559	FBgn0024245	dnt	intron	0
2L		414 LTR	CG10443	FBgn0010057	Lar	intron	1
2L		415 LTR	CG10443	FBgn0010057	Lar	intron	0
2L		416 LTR	CG10443	FBgn0010057	Lar	intron	1
2L		418 LTR	CG10443	FBgn0010057	Lar	intron	1
2L		419 LTR	CG10443	FBgn0010057	Lar	intron	0
2L		473 LTR	CG17472	FBgn0032868	CG17472	flank	1
2L		476 LTR	CG9334	FBgn0028986	Spn3	flank	1
2L		488 LTR	CG8666	FBgn0032943	Tsp39D	intron	1
2L		496 LTR	CR31754	FBgn0051754	His-&PSgr;	flank	0
2L		514 LTR	CG31619	FBgn0032958	CG31619	intron	0
2L		521 LTR	CG2528	FBgn0032969	CG2528	UTR	1
2L		537 LTR	CG3635	FBgn0032981	CG3635	flank	1
2L		558 LTR	CG17018	FBgn0039971	CG17018	intron	1
2L		559 LTR	CG17018	FBgn0039971	CG17018	intron	1
2L		563 LTR	CG17018	FBgn0039971	CG17018	intron	0
2L		564 LTR	CG17018	FBgn0039971	CG17018	intron	1
2L		565 LTR	CG17018	FBgn0039971	CG17018	intron	1
2L		566 LTR	CG17018	FBgn0039971	CG17018	intron	1
2L		568 LTR	CG17018	FBgn0039971	CG17018	intron	1
2R		609 LTR	CG33492	FBgn0053492	CG33492	flank	0
2R		645 LTR	CG10392	FBgn0027591	Ogt	intron	0
2R		664 LTR	CG30437	FBgn0050437	CG30437	intron	0
2R		677 LTR	CG30438	FBgn0050438	CG30438	intron	1
2R		760 LTR	CG33349	FBgn0053349	CG33349	flank	1
2R		764 LTR	CG11084	FBgn0003477	pk	intron	0
2R		770 LTR	CG1548	FBgn0029093	cathD	UTR	0
2R		774 LTR	CG18316	FBgn0033261	CG18316	UTR	1
2R		783 LTR	CG30345	FBgn0050345	CG30345	flank	1
2R		790 LTR	CG1776	FBgn0033441	CG1776	intron	0
2R		791 LTR	CG10536	FBgn0011241	cbX	intron	
2R		797 LTR	CG2368	FBgn0004399	psq	intron	0
2R		798 LTR	CG11883	FBgn0033538	CG11883	intron	1
2R		799 LTR	CG11883	FBgn0033538	CG11883	intron	0
2R		800 LTR	CG11883	FBgn0033538	CG11883	intron	1
2R		801 LTR	CG11883	FBgn0033538	CG11883	intron	1
2R		806 LTR	CG33473	FBgn0033575	luna	intron	1
2R		810 LTR	CG7741	FBgn0033615	CG7741	UTR	0
2R		811 LTR	CG9023	FBgn0015156	Drip	intron	0
2R		815 LTR	CG8776	FBgn0033764	CG8776	UTR	0
2R		816 LTR	CG17579	FBgn0003326	sca	intron	0
2R		818 LTR	CG17574	FBgn0033777	CG17574	intron	0
2R		821 LTR	CG17716	FBgn0010603	fas	intron	1
2R		823 LTR	CG30483	FBgn0050483	Prosap	intron	1
2R		824 LTR	CG30483	FBgn0050483	Prosap	intron	1
2R		825 LTR	CG30483	FBgn0050483	Prosap	intron	1
2R		831 LTR	CG7449	FBgn0029082	hbs	intron	0
2R		833 LTR	CG11798	FBgn0033992	CG11798	intron	1
2R		845 LTR	CG5036	FBgn0028743	CG5036	flank	0
2R		852 LTR	CG30116	FBgn0050116	CG30116	intron	0

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Supplementary Table 1. Continued

chromosome	TE ID	class	geneCG	geneFB	geneOther	Region	orientation
2R	865	LTR	CG30389	FBgn0034596	CG30389	intron	0
2R	873	LTR	CG12489	FBgn0034738	CG12489	intron	0
2R	877	LTR	CG3520	FBgn0034859	CG3520	flank	0
2R	878	LTR	CG17632	FBgn0000241	bw	intron	1
2R	879	LTR	CG11303	FBgn0020372	TM4SF	flank	1
2R	880	LTR	CG5594	FBgn0034929	CG5594	intron	0
2R	881	LTR	CG3318	FBgn0019643	Dat	intron	0
2R	881	LTR	CG3318	FBgn0019643	Dat	intron	0
2R	882	LTR	CG3333	FBgn0022178	Nop60B	flank	0
2R	883	LTR	CG3411	FBgn0000223	bs	intron	1
2R	885	LTR	CG18510	FBgn0035053	CG18510	intron	0
3L	900	LTR	CG1086	FBgn0025593	Glut1	intron	1
3L	902	LTR	CG9097	FBgn0035183	bab1	intron	1
3L	903	LTR	CG9102	FBgn0035185	bab2	intron	0
3L	910	LTR	CG1915	FBgn0024279	sls	intron	1
3L	911	LTR	CG32306	FBgn0035340	CG32306	intron	1
3L	913	LTR	CG1066	FBgn0003383	Shab	intron	0
3L	917	LTR	CG32486	FBgn0052486	CG32486	intron	0
3L	920	LTR	CG10579	FBgn0016695	Eip63E	intron	1
3L	922	LTR	CG15015	FBgn0035533	Cip4	intron	0
3L	926	LTR	CG13704	FBgn0063680	CG13704	flank	1
3L	947	LTR	CG8588			flank	1
3L	948	LTR	CG32380	FBgn0052380	CG32380	intron	0
3L	950	LTR	CG32369	FBgn0052369	CG32369	intron	1
3L	951	LTR	CG32365	FBgn0040835	CG32365	intron	1
3L	952	LTR	CG8110	FBgn0024187	syd	flank	0
3L	958	LTR	CG6902	FBgn0035899	CG6902	flank	1
3L	961	LTR	CG4821	FBgn0029083	Tequila	intron	1
3L	961	LTR	CG4821	FBgn0029083	Tequila	intron	1
3L	962	LTR	CG4665	FBgn0035964	Dhpr	flank	0
3L	965	LTR	CG4481	FBgn0028431	Glu-RIB	intron	0
3L	969	LTR	CG3424	FBgn0036007	CG3424	intron	0
3L	982	LTR	CG33500	FBgn0053500	CG33500	flank	0
3L	983	LTR	CG33267	FBgn0053267	CG33267	intron	1
3L	995	LTR	CG17697	FBgn0001085	fz	intron	0
3L	1001	LTR	CG17839	FBgn0036454	CG17839	intron	1
3L	1010	LTR	CG6117	FBgn0000489	Pka-C3	intron	1
3L	1016	LTR	CG3849	FBgn0036653	Lasp	intron	0
3L	1023	LTR	CG32183	FBgn0036748	CG32183	intron	1
3L	1024	LTR	CG32183	FBgn0036748	CG32183	intron	0
3L	1025	LTR	CG32183	FBgn0036748	CG32183	intron	1
3L	1034	LTR	CG8127	FBgn0013628	Eip75B	intron	0
3L	1036	LTR	CG18064	FBgn0028415	Met75Cb	flank	0
3L	1043	LTR	CG4059	FBgn0001078	ftz-fl	intron	1
3L	1051	LTR	CG32212	FBgn0052212	CG32212	flank	1
3L	1054	LTR	CG8567	FBgn0013799	Deaf1	intron	0
3L	1055	LTR	CG8363	FBgn0020389	Paps	intron	0
3L	1060	LTR	CG6933	FBgn0036952	CG6933	flank	1
3L	1067	LTR	CG5130	FBgn0037000	CG5130	UTR	0
3L	1073	LTR	CG9936	FBgn0024200	skd	intron	0
3L	1074	LTR	CG10564	FBgn0024150	Ac78C	intron	0
3L	1075	LTR	CG18023	FBgn0004865	Eip78C	intron	1
3L	1076	LTR	CG32443	FBgn0015223	Pc	intron	0
3L	1087	LTR	CG7437	FBgn0010834	mub	intron	0
3L	1099	LTR	CG11352	FBgn0037192	jim	intron	0
3L	1100	LTR	CG11352	FBgn0037192	jim	intron	0
3L	1169	LTR	CG12414	FBgn0037211	nAcR&agr;	intron	1
3R	1184	LTR	CG14636	FBgn0037217	CG14636	intron	0
3R	1186	LTR	CG31519	FBgn0051519	Or82a	flank	1
3R	1187	LTR	CG9766	FBgn0037229	CG9766	intron	1
3R	1189	LTR	CG1090	FBgn0037238	CG1090	UTR	0
3R	1223	LTR	CG2091	FBgn0037372	CG2091	flank	0
3R	1224	LTR	CG2082	FBgn0027608	CG2082	intron	1
3R	1231	LTR	CG1077	FBgn0000091	CG1077	flank	1

Continued

Supplementary Table 1. Continued

chromosome	TE ID	class	geneCG	geneFB	geneOther	Region	orientation
3R	1262	LTR	CG7900	FBgn0037548	CG7900	flank	1
3R	1265	LTR	CG31369	FBgn0051369	CG31369	intron	0
3R	1269	LTR	CG31349	FBgn0003177	pyd	intron	0
3R	1271	LTR	CG31349	FBgn0003177	pyd	intron	0
3R	1272	LTR	CG31349	FBgn0003177	pyd	intron	0
3R	1273	LTR	CG31349	FBgn0003177	pyd	intron	0
3R	1274	LTR	CG31349	FBgn0003177	pyd	intron	0
3R	1275	LTR	CG31349	FBgn0003177	pyd	intron	0
3R	1277	LTR	CG8861	FBgn0037676	CG8861	intron	0
3R	1280	LTR	CG12806	FBgn0037766	CG12806	intron	0
3R	1281	LTR	CG12806	FBgn0037766	CG12806	intron	1
3R	1282	LTR	CG3985	FBgn0004575	Syn	intron	1
3R	1286	LTR	CG18545	FBgn0037812	CG18545	flank	0
3R	1287	LTR	CG14693	FBgn0037837	CG14693	UTR	0
3R	1290	LTR	CG17228	FBgn0011504	pros	intron	0
3R	1349	LTR	CG31298	FBgn0051298	beat-Vb	intron	0
3R	1351	LTR	CG7855	FBgn0038121	timeout	intron	0
3R	1351	LTR	CG7855	FBgn0038121	timeout	intron	0
3R	1359	LTR	CG9652	FBgn0011582	DopR	intron	0
3R	1365	LTR	CG31304	FBgn0051304	CG31304	flank	1
3R	1371	LTR	CG6072	FBgn0026629	sra	intron	0
3R	1388	LTR	CG31221	FBgn0038707	CG31221	intron	1
3R	1391	LTR	CG10887	FBgn0038773	CG10887	flank	0
3R	1394	LTR	CG5060	FBgn0038780	CG5060	intron	1
3R	1399	LTR	CG17299	FBgn0025803	SNF4A&ggr;	intron	0
3R	1403	LTR	CG31177	FBgn0051177	CG31177	UTR	0
3R	1405	LTR	CG31163	FBgn0040583	CG31163	intron	0
3R	1410	LTR	CG18754	FBgn0042106	CG18754	intron	1
3R	1415	LTR	CG31137	FBgn0039166	CCR4	intron	0
3R	1421	LTR	CG31092	FBgn0039361	LpR2	intron	1
3R	1422	LTR	CG5878	FBgn0039378	CG5878	flank	1
3R	1427	LTR	CG5462			intron	1
3R	1429	LTR	CG5490	FBgn0003717	Tl	intron	0
3R	1430	LTR	CG6295	FBgn0039471	CG6295	flank	0
3R	1435	LTR	CG12885	FBgn0039523	CG12885	UTR	1
3R	1445	LTR	CG14061	FBgn0039598	CG14061	flank	0
3R	1455	LTR	CG31038	FBgn0051038	CG31038	intron	1
3R	1458	LTR	CG15532	FBgn0010113	hdc	intron	1
3R	1458	LTR	CG15532	FBgn0010113	hdc	intron	1
3R	1464	LTR	CG15552	FBgn0039814	Sox100B	intron	0
3R	1464	LTR	CG15552	FBgn0039814	Sox100B	intron	0
3R	1467	LTR	CG17998	FBgn0004834	Gprk2	intron	0
X	2	LTR	CG3777	FBgn0024989	CG3777	intron	0
X	5	LTR	CG7727	FBgn0000108	Appl	intron	1
X	6	LTR	CG12467	FBgn0025623	CG12467	intron	0
X	12	LTR	CG3019	FBgn0003638	su(w < up > a < /up >)	UTR	1
X	19	LTR	CG11491	FBgn0029585	br	intron	0
X	19	LTR	CG11491	FBgn0029585	br	intron	0
X	20	LTR	CG14808	FBgn0025391	Scg&dgr;	flank	1
X	21	LTR	CG3857	FBgn0023520	CG3857	UTR	1
X	26	LTR	CG8636	FBgn0029629	CG8636	flank	1
X	33	LTR	CG32498	FBgn0029653	dnc	intron	1
X	33	LTR	CG32498	FBgn0029653	dnc	intron	1
X	34	LTR	CG32498	FBgn0029653	dnc	intron	0
X	34	LTR	CG32498	FBgn0029653	dnc	intron	0
X	37	LTR	CG14271	FBgn0029667	Gas8	intron	1
X	38	LTR	CG2872	FBgn0040320	AlstR	intron	1
X	39	LTR	CG2872	FBgn0040320	AlstR	intron	1
X	40	LTR	CG2872	FBgn0040320	AlstR	intron	0
X	41	LTR	CG2872	FBgn0040320	AlstR	intron	1
X	42	LTR	CG2872	FBgn0040320	AlstR	intron	0
X	44	LTR	CG32781	FBgn0052781	CG32781	intron	0
X	45	LTR	CG32782	FBgn0052782	CG32782	intron	0
X	48	LTR	CG3665	FBgn0000635	Fas2	intron	0

Continued

Supplementary Table 1. Continued

chromosome	TE ID	class	geneCG	geneFB	geneOther	Region	orientation
X		58 LTR	CG12680	FBgn0029740	CG12680	flank	0
X		61 LTR	CG10706	FBgn0029758	SK	intron	0
X		63 LTR	CG15783	FBgn0029772	CG15783	flank	0
X		67 LTR	CG3726	FBgn0029824	CG3726	intron	0
X		73 LTR	CG3950	FBgn0029875	CG3950	flank	0
X		74 LTR	CG3973	FBgn0029881	CG3973	intron	0
X		91 LTR	CG32699	FBgn0052699	CG32699	intron	0
X		92 LTR	CG32698	FBgn0052698	CG32698	intron	0
X		93 LTR	CG12094	FBgn0030179	CG12094	intron	1
X		95 LTR	CG12094	FBgn0030179	CG12094	UTR	1
X		96 LTR	CG32684	FBgn0010338	&agr;-Man	UTR	1
X		98 LTR	CG33175	FBgn0030214	spri	intron	0
X		101 LTR	CG1961	FBgn0030264	CG1961	flank	1
X		103 LTR	CG11106	FBgn0047335	CG11106	flank	0
X		107 LTR	CG32666	FBgn0030308	CG32666	intron	0
X		109 LTR	CG1817	FBgn0004370	Ptp10D	intron	0
X		119 LTR	CG32635	FBgn0030488	CG32635	intron	1
X		121 LTR	CG32616	FBgn0052616	Ste12DOR	flank	1
X		131 LTR	CG9533	FBgn0003301	rut	intron	1
X		132 LTR	CG9009	FBgn0027601	CG9009	intron	0
X		143 LTR	CG4200			flank	0
X		144 LTR	CG9907	FBgn0003036	para	intron	1
X		147 LTR	CG5004	FBgn0030820	CG5004	intron	0
X		148 LTR	CG5055	FBgn0000163	baz	UTR	0
X		152 LTR	CG6352	FBgn0026058	OdsH	intron	1
X		153 LTR	CG6835	FBgn0053065	CG6835	intron	0
X		162 LTR	CG32541	FBgn0030977	CG32541	intron	0
X		165 LTR	CG7481	FBgn0030986	RhoGAP18	UTR	0
X		170 LTR	CG12199	FBgn0031016	kek5	intron	0
X		263 LTR	CG32499	FBgn0031200	CG32499	intron	0
4		1479 TIR	CR32010	FBgn0052010	CR32010	UTR	1
4		1480 TIR	CG17245	FBgn0025740	plexB	intron	0
4		1481 TIR	CG17245	FBgn0025740	plexB	intron	0
4		1482 TIR	CG2125	FBgn0017411	ci	intron	1
4		1485 TIR	CG1651	FBgn0011747	Ank	intron	1
4		1486 TIR	CG1651	FBgn0011747	Ank	intron	1
4		1498 TIR	CG2381	FBgn0039901	Syt7	intron	1
4		1499 TIR	CG2381	FBgn0039901	Syt7	intron	0
4		1500 TIR	CG2381	FBgn0039901	Syt7	intron	1
4		1501 TIR	CG2381	FBgn0039901	Syt7	intron	0
4		1502 TIR	CG2381	FBgn0039901	Syt7	intron	0
4		1503 TIR	CG2381	FBgn0039901	Syt7	flank	0
4		1504 TIR	CG32850	FBgn0062444	CG32850	intron	0
4		1507 TIR	CG1710	FBgn0039904	Hcf	intron	0
4		1508 TIR	CG1710	FBgn0039904	Hcf	intron	0
4		1514 TIR	CG1495	FBgn0016126	CaMKI	flank	1
4		1520 TIR	CG1511	FBgn0025936	Eph	intron	0
4		1522 TIR	CG9935	FBgn0039916	CG9935	intron	0
4		1529 TIR	CG32019	FBgn0005666	bt	intron	1
4		1530 TIR	CG1793	FBgn0039922	Arc70	intron	1
4		1531 TIR	CG1793	FBgn0039922	Arc70	intron	1
4		1533 TIR	CG1793	FBgn0039922	Arc70	UTR	1
4		1536 TIR	CG11148	FBgn0039936	CG11148	intron	0
4		1537 TIR	CG2999	FBgn0025726	unc-13	intron	0
4		1538 TIR	CG32021	FBgn0062879	CG32021	flank	1
4		1539 TIR	CG32021	FBgn0062879	CG32021	intron	0
4		1544 TIR	CG32016	FBgn0039934	CG32016	flank	1
4		1545 TIR	CG32016	FBgn0039934	CG32016	intron	0
4		1548 TIR	CG11081	FBgn0025741	plexA	intron	0
4		1549 TIR	CG11081	FBgn0025741	plexA	intron	0
4		1550 TIR	CG18069	FBgn0004624	CaMKII	intron	0
4		1552 TIR	CG11064	FBgn0016724	RfaBp	flank	0
4		1553 TIR	CG11062	FBgn0024913	activin-&bgr;	intron	0
4		1556 TIR	CG17461	FBgn0039925	Kif3C	intron	0

Continued

Supplementary Table 1. Continued

chromosome	TE ID	class	geneCG	geneFB	geneOther	Region	orientation
4		1557 TIR	CG17461	FBgn0039925	Kif3C	intron	0
4		1561 TIR	CG17743	FBgn0024914	pho	intron	1
4		1570 TIR	CG18026	FBgn0040042	Caps	intron	0
4		1571 TIR	CG18026	FBgn0040042	Caps	intron	1
2L		297 TIR	CG8817	FBgn0016741	lilli	intron	0
2L		308 TIR	CG8867	FBgn0020906	Ser4	flank	0
2L		309 TIR	CG14043	FBgn0031659	CG14043	flank	0
2L		312 TIR	CG31641	FBgn0026568	stai	intron	1
2L		348 TIR	CG6214	FBgn0032456	CG6214	intron	0
2L		377 TIR	CG4587	FBgn0028863	CG4587	flank	1
2L		386 TIR	CG7644	FBgn0032576	beat-Ib	intron	0
2L		389 TIR	CG7664	FBgn0024216	crp	intron	1
2L		393 TIR	CG12621	FBgn0032627	beat-IIIa	intron	1
2L		394 TIR	CG15138	FBgn0061407	beat-IIIc	intron	1
2L		398 TIR	CG7100	FBgn0019859	CadN	intron	0
2L		403 TIR	CG15152	FBgn0032665	CG15152	flank	1
2L		420 TIR	CG10447	FBgn0032816	CG10447	flank	1
2L		421 TIR	CG31692	FBgn0051692	fbp	intron	1
2L		469 TIR	CG11012	FBgn0026756	Ugt37a1	flank	0
2L		478 TIR	CG9339	FBgn0032901	CG9339	intron	1
2L		484 TIR	CG8676	FBgn0014175	Hr39	intron	1
2L		489 TIR	CG2042	FBgn0032944	CG2042	flank	0
2L		504 TIR	CG3305	FBgn0032949	CG3305	flank	0
2L		505 TIR	CG12548	FBgn0016919	nompB	intron	0
2L		506 TIR	CG12548	FBgn0016919	nompB	intron	0
2L		512 TIR	CG2225	FBgn0032957	CG2225	intron	1
2L		513 TIR	CG31619	FBgn0032958	CG31619	intron	1
2L		515 TIR	CG31619	FBgn0032958	CG31619	intron	1
2L		517 TIR	CG31619	FBgn0032958	CG31619	intron	0
2L		533 TIR	CG6448	FBgn0032976	CG6448	intron	1
2L		548 TIR	CG3278			intron	1
2L		551 TIR	CG16937	FBgn0032991	CG16937	flank	1
2L		560 TIR	CG17018	FBgn0039971	CG17018	intron	0
2L		561 TIR	CG17018	FBgn0039971	CG17018	intron	0
2L		562 TIR	CG17018	FBgn0039971	CG17018	intron	0
2L		567 TIR	CG17018	FBgn0039971	CG17018	intron	0
2L		569 TIR	CG17018	FBgn0039971	CG17018	intron	0
2L		573 TIR	CG17018	FBgn0039971	CG17018	intron	0
2L		574 TIR	CG17018	FBgn0039971	CG17018	intron	1
2R		623 TIR	CG3136	FBgn0033010	CG3136	flank	1
2R		628 TIR	CG2905	FBgn0039989	Tra1	intron	1
2R		643 TIR	CG10392	FBgn0027591	Ogt	intron	0
2R		644 TIR	CG10392	FBgn0027591	Ogt	intron	1
2R		652 TIR	CG10395	FBgn0033019	CG10395	flank	1
2R		665 TIR	CG30437	FBgn0050437	CG30437	intron	0
2R		666 TIR	CG30437	FBgn0050437	CG30437	intron	0
2R		670 TIR	CG30440	FBgn0033025	CG30440	intron	0
2R		671 TIR	CG30440	FBgn0033025	CG30440	intron	0
2R		673 TIR	CG30438	FBgn0050438	CG30438	intron	1
2R		674 TIR	CG30438	FBgn0050438	CG30438	intron	1
2R		676 TIR	CG30438	FBgn0050438	CG30438	intron	0
2R		758 TIR	CG15845	FBgn0033084	Adf1	intron	1
2R		761 TIR	CG17002	FBgn0033122	CG17002	flank	1
2R		767 TIR	CG1707	FBgn0033162	CG1707	intron	0
2R		780 TIR	CG8687	FBgn0033302	Cyp6a14	flank	0
2R		781 TIR	CG14767	FBgn0040777	CG14767	intron	0
2R		792 TIR	CG10536	FBgn0011241	cbX	intron 0	
2R		795 TIR	CG15862	FBgn0047292	Pka-R2	intron	0
2R		829 TIR	CG10109			flank	0
2R		855 TIR	CG15106	FBgn0034406	Jheh3	flank	1
2R		887 TIR	CG16778	FBgn0004900	Tkr	intron	0
2R		887 TIR	CG16778	FBgn0004900	Tkr	intron	0
3L		906 TIR	CG33166	FBgn0041725	stet	intron	0
3L		907 TIR	CG12084	FBgn0035224	CG12084	flank	0

Continued

Supplementary Table 1. Continued

chromosome	TE ID	class	geneCG	geneFB	geneOther	Region	orientation
3L		909 TIR	CG7995	FBgn0035266	CG7995	intron	1
3L		915 TIR	CG2162	FBgn0035388	CG2162	UTR	1
3L		916 TIR	CG32485	FBgn0035391	CG32485	flank	1
3L		921 TIR	CG10847	FBgn0035466	enc	intron	1
3L		932 TIR	CG13288	FBgn0035648	CG13288	flank	1
3L		955 TIR	CG7892	FBgn0011817	nmo	intron	1
3L		963 TIR	CG10537	FBgn0004244	Rdl	intron	0
3L		967 TIR	CG14179	FBgn0035994	CG14179	flank	1
3L		977 TIR	CG6297	FBgn0020412	JIL-1	intron	1
3L		1008 TIR	CG7439	FBgn0036508	AGO2	intron	1
3L		1026 TIR	CG32190	FBgn0052190	NUCB1	intron	1
3L		1044 TIR	CG3979	FBgn0036816	Indy	intron	1
3L		1070 TIR	CG3263	FBgn0000275	Pka-R1	intron	0
3L		1080 TIR	CG5656	FBgn0037083	CG5656	flank	1
3L		1082 TIR	CG33214	FBgn0037089	CG33214	intron	0
3L		1083 TIR	CG33214	FBgn0037089	CG33214	intron	0
3L		1096 TIR	CG14451	FBgn0037183	CG14451	flank	1
3L		1121 TIR	CG17520	FBgn0000258	CkII&agr;	flank	0
3R		1183 TIR	CG18090	FBgn0062936	Dsk	flank	0
3R		1185 TIR	CG1107			intron	0
3R		1207 TIR	CG31531	FBgn0037266	CG31531	intron	0
3R		1210 TIR	CG31530	FBgn0037272	CG31530	intron	0
3R		1216 TIR	CG12591	FBgn0037295	CG12591	intron	1
3R		1217 TIR	CG31543	FBgn0037306	Hph	intron	0
3R		1219 TIR	CG16708	FBgn0037315	CG16708	intron	1
3R		1222 TIR	CG1098	FBgn0027497	CG1098	flank	1
3R		1226 TIR	CG2023	FBgn0037383	CG2023	flank	1
3R		1242 TIR	CG33323	FBgn0053323	Fer1	intron	1
3R		1257 TIR	CG31187	FBgn0037524	CG31187	intron	0
3R		1258 TIR	CG2791	FBgn0037533	CG2791	flank	1
3R		1270 TIR	CG31349	FBgn0003177	pyd	intron	1
3R		1293 TIR	CG18743	FBgn0013276	Hsp70Ab	flank	1
3R		1350 TIR	CG7855	FBgn0038121	timeout	intron	1
3R		1350 TIR	CG7855	FBgn0038121	timeout	intron	1
3R		1355 TIR	CG31311	FBgn0051311	CG31311	flank	1
3R		1357 TIR	CG9924	FBgn0038192	CG9924	intron	1
3R		1364 TIR	CG6966	FBgn0063758	CG6966	flank	0
3R		1385 TIR	CG17836	FBgn0025952	CG17836	intron	1
3R		1386 TIR	CG6042	FBgn0038681	Cyp12a4	UTR	1
3R		1404 TIR	CG31163	FBgn0040583	CG31163	intron	0
3R		1408 TIR	CG4370			intron	1
3R		1409 TIR	CG10152	FBgn0039089	beat-IV	intron	0
3R		1414 TIR	CG33100	FBgn0039148	CG33100	intron	1
3R		1417 TIR	CG33343	FBgn0053343	CG33343	intron	1
3R		1448 TIR	CG14518	FBgn0039621	CG14518	intron	1
3R		1453 TIR	CG1969	FBgn0039690	CG1969	flank	0
3R		1456 TIR	CG7951	FBgn0015542	sima	intron	1
3R		1463 TIR	CG31012	FBgn0027598	CG31012	intron	1
3R		1469 TIR	CG31000	FBgn0051000	heph	intron	1
X		17 TIR	CG32810	FBgn0052810	CG32810	intron	1
X		27 TIR	CG2621	FBgn0003371	sgg	intron	0
X		36 TIR	CG12206	FBgn0029662	CG12206	flank	1
X		65 TIR	CG16721	FBgn0029820	CG16721	flank	1
X		75 TIR	CG14438	FBgn0029899	CG14438	flank	1
X		76 TIR	CG14438	FBgn0029899	CG14438	intron	1
X		84 TIR	CG2302	FBgn0015519	nAcR&agr;-7E	intron	0
X		86 TIR	CG15347	FBgn0030040	CG15347	intron	1
X		94 TIR	CG12094	FBgn0030179	CG12094	intron	0
X		99 TIR	CG33175	FBgn0030214	spri	intron	0
X		108 TIR	CG1558	FBgn0030312	l(1)G0237	intron	0
X		115 TIR	CG3812	FBgn0030421	CG3812	flank	1
X		128 TIR	CG9413	FBgn0030574	CG9413	intron	0
X		154 TIR	CG5659	FBgn0014203	ari-1	flank	1
X		157 TIR	CG6500	FBgn0000242	BX	intron	1

Continued

Supplementary Table 1. Continued

chromosome	TE ID	class	geneCG	geneFB	geneOther	Region	orientation
X		167 TIR	CG12199	FBgn0031016	kek5	intron	1
X		169 TIR	CG12199	FBgn0031016	kek5	intron	0
X		172 TIR	CG12530	FBgn0012059	Cdc42	flank	1
X		173 TIR	CG14233	FBgn0031063	meso18E	intron	0
X		195 TIR	CG32514	FBgn0052514	CG32514	intron	1
X		205 TIR	CG32521	FBgn0052521	CG32521	intron	0
X		227 TIR	CG17686	FBgn0024807	DIP1	intron	0
X		248 TIR	CG14619	FBgn0031187	CG14619	intron	1
X		249 TIR	CG14618	FBgn0031189	CG14618	flank	1
X		252 TIR	CG17600	FBgn0031195	CG17600	intron	0
X		254 TIR	CG17600	FBgn0031195	CG17600	intron	1
X		276 TIR	CG9559	FBgn0000719	fog	intron	0

Online Supplementary Table 2. Sense-oriented TIRs in flanking regions and associated genes with high F_{op} or high R

TIR id ^a	TIR family ^a	Nearest gene	Chromosome	F_{op}	R	GC3s
916	pogo	FBgn0035391	3L	0.701 ^b		0.813
172	Tc1	FBgn0012059 (Cdc42)	X	0.690 ^b	1.95 ^c	0.802
1293	S-element	FBgn0013276 (HSP70Ab)	3R	0.650 ^b	0.97 ^c	0.745
855	Bari1	FBgn0034406 (Jheh3)	2R	0.627 ^b	3.12 ^b	0.721
154	1360	FBgn0014203 (Ari-1)	X	0.627 ^b	2.28 ^c	0.724
65	pogo	FBgn0029820	X	0.618 ^b	4.45 ^b	0.749
761	HB	FBgn0033122	2R	0.587 ^b	0.55 ^c	0.787
420	1360	FBgn0032816	2L	0.586 ^b	0.46 ^c	0.704
1222	pogo	FBgn0027497	3R	0.586 ^b		0.774
1226	1360	FBgn0037383	3R	0.586 ^b	0.06 ^d	0.750
249	S2	FBgn0031189	X	0.581 ^b	0.46 ^d	0.732
1258	1360	FBgn0037533	3R	0.576 ^b	0.15 ^d	0.685
1355	S-element	FBgn0051311	3R	0.572 ^b		0.693
932	pogo	FBgn0035648	3L	0.530 ^c	3.14 ^b	0.678
403	Tc1	FBgn0032665	2L	0.519 ^c	0.45 ^d	0.663
1096	1360	FBgn0037183	3L	0.514 ^c	0.03 ^d	0.645
115	1360	FBgn0030421	X	0.505 ^c	3.44 ^b	0.651
377	H-element	FBgn0028863	2L	0.500 ^c		0.637
1080	Tc1	FBgn0037083	3L	0.469 ^c	0.05	0.610
75	transib4	FBgn0029899	X	0.435 ^d	4.29 ^b	0.556
36	hopper	FBgn0029662	X	0.427 ^d	2.92 ^b	0.570
967	S-element	FBgn0035994	3L	0.414 ^d	3.10 ^b	0.482

^afrom Kaminker et al. (2002); ^b highest third; ^c middle third; ^d lowest third; Note: six TE-gene pairs with lowest third F_{op} and R not shown.