

**Table S1. Lines in which the *P*-element insertion affected one or more morphological traits in either sex at 17°C.**

Line	Candidate Gene	<i>p</i> [ <i>GT1</i> ] insertion	Cytogenetic map	Face Width		Head Width		Thorax Length		Wing Size		Wing Shape	
				♂	♀	♂	♀	♂	♀	♂	♀	♂	♀
BG00369	<i>CG13333 / CG13334</i>	671 bp at 3' side / 532 bp at 5' side	50B1	ns	▼	ns	▼	ns	▼	▲	ns	S	S
BG00373	<i>jim</i>	303 bp at 5' side	80A4	ns	▼	▼	▼	▼	▼	ns	▼	S*	S*
BG00386	<i>NMDA receptor 1</i> ( <i>Nmdar1</i> )	348 bp at 3' side	83A6-A7	ns	▼	ns	▼	ns	▼	ns*	▼	S*	S
BG00524	<i>tal-1A</i>	647 bp at 5' side	87F14	ns	ns	ns	ns	ns	▼	▲	ns	ns*	S*
BG00737	<i>Heat shock protein 27</i> ( <i>Hsp 27</i> )	127 bp at 5' side	67B3	ns*	▼	▼	▼	▼	▼	ns	ns	S*	S
BG00930	No sequence			ns	▼	▼	▼	▼	▼	ns	▼	ns	S*
BG00992	<i>CG17574</i>	In gene (intron)	49D4-49D6	ns	ns	ns	ns	ns	ns	▲	ns	ns	S
BG01011	<i>Spinophilin (Spn)</i>	33 bp at 5' side	62E6-E7	ns	▼*	▼	▼*	▼	▼*	ns*	ns*	ns*	S*
BG01014	<i>Spichthyin (spict)</i>	In gene (exon)	33F3	▲	ns	ns	ns	ns	ns	▲	ns	S*	S*
BG01028	<i>Trithorax-like (Trl)</i>	In gene (intron)	70F4	ns	▼	ns	▼	ns	▼	▲	ns	S*	S*
BG01081	<i>Glutamate oxaloacetate transaminase 1 (Got1)</i>	In gene (exon-intron)	52E7-E10	ns	▼	ns	▼	ns	▼	ns	ns	S*	S
BG01214	<i>sugarless (sgl)</i>	In gene (5'UTR)	65D4-D5	ns	▼	ns	▼	▼	▼	ns	ns	S*	S
BG01218	<i>CG6767</i>	In gene (intron)	67C4-C5	ns	▼	▼	▼	▼	▼	ns	ns	ns*	S*
BG01290	<i>Btk family kinase at 29A</i> ( <i>Btk29A</i> )	In gene (intron)	29A1-A3	ns	▼	ns	▼	▼	▼	ns	▼	ns*	S
BG01339	<i>cricketlet (clt)</i>	In gene (5'UTR)	57F4	ns	▼	ns	▼	ns	▼	ns	ns	S	S
BG01354	<i>CG43340</i>	694 bp at 5' side	43E6-E7	ns	▼	ns	▼	ns	▼	▲	ns	S*	S*
BG01488	No similarity found			ns	▼	ns	▼	ns	▼	ns	ns	S	S

(Continued)

**Table 1 continued**

BG01548	<i>α-Esterase-10 (α-Est10)</i>	In gene (intron)	84D8-D9	ns	ns	ns	ns*	ns	▼	▲	ns	S*	S*
BG01573	<i>forkhead box, sub-group O (foxo)</i>	6418 bp at 5' side	88A5-A8	ns	▼	▼	ns	▼	▼*	ns	ns*	ns	S
BG01672	<i>SCAP / CG14591</i>	113 bp at 5' side / 28 bp at 3' side	42A8	ns	▼	ns	▼	ns	ns	▲	ns	S	S
BG01683	<i>CG32572</i>	In gene (intron)	15A3	ns	ns	ns	ns	ns	▼	▲	ns	S*	S
BG01716	<i>PAPS synthetase (Papss)</i>	780 bp at 3' side	76D1-D2	ns	ns	ns	ns	ns	ns	▲	ns	ns*	S*
BG01726	<i>CG11382</i>	197 bp at 5' side	1E4	ns	ns	ns*	ns	ns*	ns	▲*	ns	S	S*
BG01735	<i>CG13130 / big brain (bib)</i>	In genes (5'UTR)	30F5	ns*	ns	ns*	ns	ns*	ns	▲	ns	S	S
BG01780	<i>CG11226</i>	In gene (exon)	80A4	ns*	ns	ns	ns	ns	ns	▲	ns	S	S
BG01822	<i>IGF-II mRNA-binding protein (Imp)</i>	In gene (intron)	9F1-9F4	ns	▼	ns	▼	ns	▼	ns	ns	S	S
BG01902	<i>Mastermind (mam)</i>	In gene (intron)	50C23-D3	ns	ns	ns	▼	ns	ns	ns*	ns	S*	S
BG01912	<i>Pxb</i>	In gene (exon)	89A1-A2	ns	▼	ns*	ns	ns	ns	▲*	ns	S	S
BG01990	<i>CG43340</i>	61 bp at 5' side	43E6-E7	ns	▼	ns	▼*	ns	▼	ns	ns	ns	S*
BG02042	<i>easily shocked (eas)</i>	In gene (5'UTR)	14B7	ns	ns	ns	ns*	ns	ns	▲	ns	ns	S
BG02088	<i>CG15309</i>	In gene (intron)	9B4	ns	ns	ns	▼	ns	▼	ns	ns	ns	S*
BG02102	<i>mir-313, 312, 311, 310 / mir-2498, 991, 992</i>	69, 208, 369, 489 bp at 5' side / 380, 871, 985 bp at 3' side	57A6	ns	▼	ns	ns	ns	▼	ns	ns	ns	S
BG02106	<i>CG31145</i>	In gene (5'UTR)	95A4-A7	ns	ns	ns	ns	ns	▼	▲	ns	ns	S*
BG02157	<i>CG42268</i>	46 bp at 5' side	67C6	ns*	ns	ns	ns	ns	ns	▲	ns	ns*	S

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**Table 1 continued**

BG02159	<i>Death-associated protein kinase related (Drak)</i>	In gene (5'UTR)	10C1-C5	ns*	▼	ns*	▼	ns	▼	ns	ns	ns	S
BG02239	<i>CG11550</i>	9536 bp at 5' side	100D1	ns*	▼*	ns*	▼*	ns*	ns*	▲*	ns	S	S
BG02462	<i>CG34460</i>	1317 bp at 3' side	53D11	ns*	▼*	▼*	▼*	▼	▼	ns	ns	S*	S*
BG02563	<i>Capricious (caps)</i>	In gene (5'UTR)	70A3-A4	ns	ns	ns	ns	ns	ns	▲	ns	ns*	ns
BG02690	<i>CG14478</i>	In gene (intron)	54B16	ns*	ns	ns	▼*	ns	▼	ns	ns*	S*	S*
BG02747	<i>rutabaga (rut)</i>	In gene (5'UTR)	12F4-F5	ns	▼	▼	▼	▼	ns	ns	ns	S	S
BG02823	<i>scylla (scyl)</i>	546 bp at 5' side	68B4-68C1	ns	▼	ns	▼	ns	▼	▲	ns	S	S
BG02830	<i>Lipid storage droplet-2 (Lsd-2)</i>	379 bp at 5' side	13A8-A9	ns	▼*	ns*	▼*	▼*	▼*	ns*	ns*	S*	S*

The candidate gene, the site of the mutation and its morphological effect are shown. ns: not significant. For body size related traits, ▼ and ▲ represent significant decrements and increments with respect to the control respectively ( $p < 0.05$ ). For wing shape, S represents significant differences with respect to the control ( $p < P_{\text{Bonferroni}} = 0.0012$ ). \* Significant at 25°C [12, 13].