

**Supplementary Table 1. Hotspot Loci**

<i>P</i> -element (XP)						<i>piggyBac</i> (PB, RB, WH)					
Chromosome	Gene <sup>a</sup>	Bin coordinates (start/stop) <sup>b</sup>				Chromosome	Gene <sup>a</sup>	Bin coordinates (start/stop) <sup>b</sup>			
X	elav	AE003417	243338	AE003418	4373	X	ade5	AE003490	109518	AE003490	159603
X	NFAT	AE003493	84454	AE003493	134454	X	CG15814	AE003506	258852	AE003507	6839
X	CrebB-17A	AE003508	210512	AE003508	260359	2L	BcDNA:LD26519	AE003590	55069	AE003590	105068
X	Wnt5	AE003509	9706	AE003509	59618	2L	CG3164	AE003590	105069	AE003590	155067
X	Bx	AE003509	59618	AE003509	109615	2L	stai	AE003612	125541	AE003612	175539
X	Pvfl	AE003510	54372	AE003510	104180	2L	CG6785	AE003634	178003	AE003634	228002
X	CG7502	AE003511	57326	AE003511	106572	2L	CG6448	AE003782	262920	AE003783	14863
2L	CG13791	AE003617	256707	AE003618	49450	2R	bin3	AE003784	219284	AE003784	269284
2L	IP3K1	AE003626	32699	AE003626	82699	2R	cn	AE003840	246026	AE003839	23911
2R	1.28	AE003784	269285	AE003789	169758	2R	CG9003	AE003825	133706	AE003825	183705
2R	CG30465	AE003810	174782	AE003810	224781	2R	CG10082	AE003454	233171	AE003454	283170
2R	GstS1	AE003804	82225	AE003804	132224	2R	HmgD	AE003454	283171	AE003455	19595
2R	Or59a	AE003460	245862	AE003460	295861	3L	Pk61C	AE003467	99966	AE003467	149965
3L	emc	AE003469	91359	AE003469	141358	3L	E(bx)	AE003467	199966	AE003467	249965
3L	CG14959	AE003477	155635	AE003477	205634	3L	ban	AE003468	298957	AE003469	41359
3L	CG15876	AE003482	50579	AE003482	100577	3L	CG32076	AE003547	24731	AE003547	74669
3L	LanA	AE003563	78562	AE003563	130316	3L	JIL-1	AE003546	193343	AE003546	243334
3L	bip1	AE003557	264374	AE003556	27244	3L	NUCB1	AE003523	266247	AE003522	25697
3L	Eip75B <sup>c</sup>	AE003522	188500	AE003522	238499	3L	W	AE003521	84890	AE003521	134890
3R	tensin	AE003683	30095	AE003683	80094	3L	CG6020	AE003591	123643	AE003591	174134
3R	CG14709	AE003692	32891	AE003692	82889	3R	CG8036	AE003679	193050	AE003680	26116
3R	CG13624	AE003748	109661	AE003748	159660	3R	CG33188	AE003682	104657	AE003682	154655
3R	ttk <sup>c</sup>	AE003779	103241	AE003779	153237	3R	Tk	AE003693	205367	AE003694	28659
						3R	desat1	AE003695	202642	AE003696	27046
						3R	CG3590	AE003715	192049	AE003716	13558
						4	CG10204	AE003844	233890	AE003844	284037

<sup>a</sup>gene containing (or nearest to) the most insertions within the 50 kb bin<sup>b</sup>GenBank accession and base pair. 50 kb bins were originally generated using *Drosophila* genome assembly release 2; the accessions reflect the latest release 3.1<sup>c</sup>Genes identified as *P*-element hotspots from a recessive lethal collection<sup>2</sup>