

Supplemental Table 1

Flybase ID	CG number	Gene symbol	P[acman] duplication	first EMS allele?	Mutation	Conserved in Humans?	Comment
FBgn0029711	CG17592	<i>Usf</i>	Dp(1;3)DC118	Yes	Y248N	Yes	
FBgn0030366	CG1490	<i>Usp7</i>	Dp(1;3)DC247	Yes	Y474N ; Q301X	Yes	
FBgn0261930	CG6172	<i>vnd</i>	Dp(1;3)DC009	Yes	splice acceptor (487,679)	Yes	
FBgn0014411	CG14804	<i>Vps26</i>	Dp(1;3)DC033	Yes	K264X ; V267D	Yes	
FBgn0004655	CG3707	<i>wapl</i>	Dp(1;3)DC038	No	Y842X ; Q1418X ; splice acceptor (2,045,880)	Yes	
FBgn0040066	CG17437	<i>wds</i>	Dp(1;3)DC046	Yes	G132D	Yes	
FBgn0030805	CG9089	<i>wus</i>	Dp(1;3)DC322	Yes	Q307X and I375V	Yes	
FBgn0260858	CG1515	<i>Ykt6</i>	Dp(1;3)DC495	Yes	Q62R ; M1I	Yes	
FBgn0030096	CG9060	<i>Zpr1</i>	Dp(1;3)DC204	Yes	C46S ; splice acceptor (9,055,222)	Yes	
FBgn0250788	CG5870	<i>β-Spec</i>	Dp(1;3)DC537	Yes	W642X	Yes	
FBgn0008635	CG6223	<i>βCop</i>	Dp(1;3)DC346	Yes	S570F	Yes	
FBgn0028969	CG14813	<i>δCOP</i>	Dp(1;3)DC033	Yes	P395S	Yes	
FBgn0024366	CG11409		Dp(1;3)DC025	Yes	G719R	No	
FBgn0024364	CG11417		Dp(1;3)DC025	Yes	R103X ; Q510X	Yes	
FBgn0030037	CG12125		Dp(1;3)DC191	Yes	G34D	Yes	
FBgn0030847	CG12991		Dp(1;3)DC331	Yes	A245T	No	
FBgn0029893	CG14442		Dp(1;3)DC026	Yes	T755P	No	
FBgn0027794	CG14786		Dp(1;3)DC401	Yes	K313X	Yes	
FBgn0030247	CG15208		Dp(1;3)DC232	Yes	L318F	Yes	
FBgn0029858	CG15896		Dp(1;3)DC153	Yes	Y121D ; W465R	Yes	
FBgn0030289	CG1597		Dp(1;3)DC237	Yes	Y761N	Yes	
FBgn0030321	CG1703		Dp(1;3)DC241	Yes	Q641X	Yes	
FBgn0030305	CG1749		Dp(1;3)DC240	Yes	V178E ; K298X	Yes	
FBgn0040899	CG17776		Dp(1;3)DC039	Yes	Y21X	No	
FBgn0025635	CG17829		Dp(1;3)DC011	Yes	W137X ; H253R	Yes	
FBgn0029971	CG18624		Dp(1;3)DC494	Yes	X57L	Yes	
FBgn0030344	CG2025		Dp(1;3)DC245	Yes	K134X ; W369X ; Q376X	Yes	
FBgn0023529	CG2918		Dp(1;3)DC403	Yes	Q619X	Yes	
FBgn0029823	CG3011		Dp(1;3)DC146	Yes	M281R	Yes	
FBgn0027564	CG3149		Dp(1;3)DC142	Yes	A410V ; W535X	Yes	
FBgn0052649	CG32649		Dp(1;3)DC261	Yes	W342X ; E623K ; R629C	Yes	
FBgn0040384	CG32795		<i>Dp(1;3)DC050</i>	Yes	A196V	Yes	
FBgn0085430	CG34401		Dp(1;3)DC353	Yes	V193E ; T295M ; K407X ; W946X	Yes	
FBgn0029868	CG3446		Dp(1;3)DC154	Yes	E82V	Yes	
FBgn0040346	CG3704		Dp(1;3)DC400	Yes	V124E ; E300X	Yes	
FBgn0023520	CG3857		Dp(1;3)DC034	Yes	L467V	Yes	
FBgn0029798	CG4078		Dp(1;3)DC143	Yes	V11E ; W435X	Yes	
FBgn0029763	CG4165		Dp(1;3)DC137	Yes	splice donor (5,317,784)	Yes	