

Supplemental Table 2

Flybase ID	CG number	Gene symbol	P[acman] duplication	first EMS allele?	Mutation	Conserved in Humans?	Comment
FBgn0027087	CG6335	<i>Aats-his</i>	Dp(1;3)DC347	Yes	D160V ; R213W	Yes	
FBgn0030089	CG9113	<i>AP-1γ</i>	Dp(1;3)DC203	No	L133P ; Splice acceptor (9,006,195)	Yes	
FBgn0017418	CG5659	<i>ari-1</i>	Dp(1;3)DC342	Yes	C136Y	Yes	
FBgn0000117	CG11579	<i>arm</i>	Dp(1;3)DC034	No	S2C ; Q84X ; Q100X ; V144E ; D171N ; Q490X	Yes	
FBgn0011742	CG9901	<i>Arp2</i>	Dp(1;3)DC316	Yes	W89X	Yes	
FBgn0030343	CG1886	<i>ATP7</i>	Dp(1;3)DC245	Yes	R355X ; G579R ; V761D	Yes	
FBgn0000163	CG5055	<i>baz</i>	Dp(1;3)DC530	No	Y302X	Yes	Other alleles of this compl. group could be rescued
FBgn0000173	CG18319	<i>ben</i>	Dp(1;3)DC277	No	W129X ; P120L	Yes	
FBgn0000210	CG11491	<i>br</i>	Dp(1;3)DC443	No	C665R	No	
FBgn0030434	CG4400	<i>Brms1</i>	Dp(1;3)DC261	Yes	K188X ; M1I and A235T	Yes	
FBgn0263111	CG1522	<i>cac</i>	Dp(1;3)DC131	Yes	W623X	Yes	
FBgn0015615	CG9802	<i>Cap</i>	Dp(1;3)DC316	Yes	Q146X ; K575X	Yes	
FBgn0026143	CG3658	<i>CDC45L</i>	Dp(1;3)DC100	Yes	D99V	Yes	Other alleles of this compl. group could be rescued
FBgn0263237	CG3319	<i>Cdk7</i>	Dp(1;3)DC136	Yes	E68K ; G200D ; W228S	Yes	
FBgn0000319	CG9012	<i>Chc</i>	Dp(1;3)DC523	No	G314S ; Q498X	Yes	
FBgn0015024	CG2028	<i>Ckla</i>	Dp(1;3)DC257	Yes	L141M ; G148S	Yes	
FBgn0000346	CG1618	<i>comt</i>	Dp(1;3)DC266	No	L257Q	Yes	
FBgn0029502	CG14437	<i>COQ7</i>	Dp(1;3)DC486	Yes	W90X ; W118X	Yes	
FBgn0025864	CG12737	<i>Crag</i>	Dp(1;3)DC499	Yes	W1306X ; splice donor (8,488,883)	Yes	
FBgn0011576	CG3466	<i>Cyp4d2</i>	Dp(1;3)DC039	Yes	K350X	Yes	
FBgn0025641	CG14622	<i>DAAM</i>	Dp(1;3)DC024	Yes	D360V	Yes	
FBgn0001624	CG1725	<i>dlg1</i>	Dp(1;3)DC238	No	Q551X ; splice donor (11,289,826)	Yes	
FBgn0000520	CG2711	<i>dwg</i>	Dp(1;3)DC406	No	C363S ; H411L	Yes	Both alleles fail to compl. <i>dwg</i> ⁸
FBgn0029849	CG3774	<i>Efr</i>	Dp(1;3)DC152	Yes	M216K	Yes	
FBgn0001404	CG9659	<i>egh</i>	Dp(1;3)DC046	No	D241N ; V333E	No	
FBgn0023512	CG3806	<i>elF2B-ε</i>	Dp(1;3)DC034	Yes	Y534X	Yes	
FBgn0029629	CG8636	<i>elF3-S4</i>	Dp(1;3)DC046	Yes	K216X	Yes	
FBgn0260400	CG4262	<i>elav</i>	Dp(1;3)DC008	Yes	Q122X	Yes	
FBgn0030092	CG8971	<i>fh</i>	Dp(1;3)DC501	Yes	S45R	Yes	
FBgn0000709	CG1484	<i>filI</i>	Dp(1;3)DC379	No	A715V	Yes	
FBgn0000711	CG2096	<i>flw</i>	Dp(1;3)DC224	No	K156X	Yes	
FBgn0004656	CG2252	<i>fs(1)h</i>	Dp(1;3)DC184	No	K1115X	Yes	Other alleles of this compl. group could be rescued
FBgn0004598	CG18734	<i>Fur2</i>	Dp(1;3)DC313	Yes	splice donor (16,269,894)	Yes	
FBgn0010391	CG2522	<i>Gtp-bp</i>	Dp(1;3)DC234	Yes	V439D ; splice acceptor (11,022,824)	Yes	
FBgn0001189	CG3095	<i>hfw</i>	Dp(1;3)DC029	Yes	W348X	No	
FBgn0001565	CG1666	<i>Hlc</i>	Dp(1;3)DC379	Yes	G58D	Yes	
FBgn0004864	CG1594	<i>hop</i>	Dp(1;3)DC238	No	G175R ; Q39X ; D1076N	Yes	
FBgn0264562	CG16902	<i>Hr4</i>	Dp(1;3)DC035	Yes	W728X ; Q867X ; W885X	Yes	All alleles fail to compl. <i>dHRA</i> ¹