

TABLE S3

## Phenotypes associated with transgenic insertions

#	Duplication	Clone	Phenotype	potential gene involved
1	Dp(1;3)DC006	CH321-32O15	Hw phenotype. Homozygotes rare. Homozygous male sterile.	<i>achaete, scute</i>
2	Dp(1;3)DC329	CH321-85I09	Bar eye phenotype. Homozygotes rare.	<i>BarH1</i>
3	Dp(1;3)DC109	CH321-91P23	Confluens phenotype in wing veins. Homozygous viable and fertile.	<i>Notch</i>
4	Dp(1;3)DC275	CH321-70M13	Heterozygotes and homozygotes hold wings out and are flightless. Homozygous viable and fertile. Homozygous males may be reduced in number.	
5	Dp(1;3)DC179	CH321-64M20	Heterozygous males hold wings out slightly and are flightless. Homozygotes rare with reduced viability and held out wings.	
6	Dp(1;3)DC310	CH321-01L06	Heterozygous males hold wings out. Homozygotes are rare.	
7	Dp(1;3)DC374	CH321-67B20	Wing hinge area is dark similar to speck. Homozygous viable and fertile.	
8	Dp(1;3)DC197	CH321-38K07	Wings are often crumpled or necrotic, this is more common in males. The bristles around the eyes may show abnormalities and this may occasionally affect the shape of the eye. Homozygotes rare.	<i>Lim1</i> mis-expression
9	Dp(1;3)DC327	CH321-56I13	Homozygotes have bent macro- and microchaete. Homozygous viable and fertile.	<i>forked</i>
10	Dp(1;3)DC244	CH321-26N14	Homozygotes have thin bristles. Homozygous viable and fertile.	
11	Dp(1;3)DC145	CH321-04D19	Homozygotes have thin short bristles and are rare.	
12	Dp(1;3)DC060	CH321-42E18	Homozygotes hold wings out and are sickly with reduced fertility.	
13	Dp(1;3)DC118	CH321-16O02	Homozygous adults are "jittery". Homozygous viable and fertile.	
14	Dp(1;3)DC416	CH321-24E24	Homozygous males hold wings out and are flightless. Homozygous viable and fertile.	
15	Dp(1;3)DC070	CH321-21C12	Homozygous males hold wings out. Homozygous viable and fertile.	
16	Dp(1;3)DC297	CH321-60I24	Homozygous males hold wings out. Homozygous viable and fertile.	
17	Dp(1;3)DC097	CH321-82N07	Homozygous males are rare. Homozygous viable and fertile. Homozygotes exhibit a weak Hw phenotype.	<i>sc</i> for the Hw phenotype
18	Dp(1;3)DC312	CH321-48H12	Males are sub-viable. Heterozygous males are reduced in number with very reduced fertility.	
19	Dp(1;3)DC344	CH321-35O24	Males are sub-vital. Males with one copy of the duplication are rare but fertile. Homozygotes are absent.	
20	Dp(1;3)DC087	CH321-01B20	Males sub-vital. Males carrying a single copy of the duplication are reduced in number (approximately 1/2 to 2/3 the expected number of males in the balanced stock). Homozygotes are rare.	
21	Dp(1;3)DC194	CH321-69A10	Post-eclosion male lethal, males carrying a single copy of the duplication eclose, are very weak and die. They do not mate (but have motile sperm). Heterozygotes have wings held out and are flightless.	<i>oc</i> or <i>Nrg</i> mis-expression
22	Dp(1;3)DC068	CH321-33A07	Semi male lethal. Males carrying even a single copy of the duplication are very rare (2 to 8% the expected number) but	

fertile.

23	Dp(1;3)DC271	CH321-77D16	Semi male lethal. Males carrying even a single copy of the duplication are very rare but fertile.
24	Dp(1;3)DC334	CH321-16L02	Semi male lethal. Heterozygous males very rare and probably sterile (n=1).
25	Dp(1;3)DC104	CH321-90H13	Homozygous viable. Homozygous male sterile.
26	Dp(1;3)DC148	CH321-95F06	Homozygous viable. Homozygous male sterile.
27	Dp(1;3)DC158	CH321-50D09	Homozygous viable. Homozygous male sterile.
28	Dp(1;3)DC160	CH321-26M04	Homozygous viable. Homozygous male sterile.
29	Dp(1;3)DC181	CH321-82O06	Homozygous viable. Homozygous male sterile.
30	Dp(1;3)DC184	CH321-60P23	Homozygous viable. Homozygous male sterile.
31	Dp(1;3)DC262	CH321-40C11	Homozygous viable. Homozygous male sterile.
32	Dp(1;3)DC311	CH321-93B12	Homozygous viable. Homozygous male sterile.
33	Dp(1;3)DC126	CH321-22I01	Homozygotes rare with reduced fertility.
34	Dp(1;3)DC325	CH321-64E02	Homozygotes rare with reduced fertility.
35	Dp(1;3)DC004	CH321-46A16	Homozygotes rare.
36	Dp(1;3)DC030	CH321-02D20	Homozygotes rare.
37	Dp(1;3)DC106	CH322-76B11	Homozygotes rare.
38	Dp(1;3)DC124	CH321-56M21	Homozygotes rare.
39	Dp(1;3)DC140	CH321-94A13	Homozygotes rare.
40	Dp(1;3)DC147	CH321-82K03	Homozygotes rare.
41	Dp(1;3)DC192	CH321-28F18	Homozygotes rare.
42	Dp(1;3)DC209	CH321-01K05	Homozygotes rare.
43	Dp(1;3)DC258	CH321-63D20	Homozygotes rare.
44	Dp(1;3)DC430	CH321-77C08	Homozygotes rare.
45	Dp(1;3)DC304	CH321-65G23	Homozygotes rare.
46	Dp(1;3)DC316	CH321-89E23	Homozygotes rare.
47	Dp(1;3)DC232	CH321-47A13	Homozygotes rare.
48	Dp(1;3)DC347	CH321-90G02	Homozygotes rare.
49	Dp(1;3)DC336	CH321-26P04	Homozygotes rare.
50	Dp(1;3)DC337	CH321-16E18	Homozygotes rare.
51	Dp(1;3)DC363	CH321-63C20	Homozygotes rare.

52	Dp(1;3)DC031	CH321-35B07	Homozygotes rare.
53	Dp(1;3)DC046	CH321-25I09	Homozygotes rare.
54	Dp(1;3)DC039	CH321-43N04	Homozygotes viable. Homozygous female fertility reduced. Homozygous male fertility not known.
55	Dp(1;3)DC002	CH321-08O02	Homozygotes viable. Homozygous females exhibit reduced fertility.
56	Dp(1;3)DC235	CH321-50P18	Homozygous viable. Homozygous female sterile.
57	Dp(1;3)DC377	CH321-22G22	Homozygous viable and fertile. Development somewhat delayed.
58	Dp(1;3)DC285	CH321-86L20	Homozygous viable and fertile. Homozygotes developmentally delayed.
59	Dp(1;3)DC354	CH321-67L15	Homozygous viable but may have reduced fertility.
60	Dp(1;3)DC321	CH321-45A15	Homozygous viable but weak.
61	Dp(1;3)DC250	CH321-94M18	Homozygous viable with reduced fertility.
62	Dp(1;3)DC281	CH321-56F05	Homozygous viable. Homozygous males exhibit reduced fertility.
63	Dp(1;3)DC301	CH321-02F23	Homozygous viable. Homozygous males exhibit reduced fertility.
64	Dp(1;3)DC324	CH321-57C16	Homozygous viable. Homozygous male have reduced fertility.
65	Dp(1;3)DC318	CH321-63I13	Homozygous viable. Homozygous male sterile.

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