

Supplementary Information File

Natural and laboratory mutations in *kuzbanian* are associated with heavy metal stress phenotypes in *Drosophila melanogaster*

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Table S1. Fly stocks in which the presence, absence or heterozygous state of *FBti0019170* has been determined.

No	Strains	PCR's results				Notes
		Present	Absent	Heterozygous	No data	
1	B1		X			Sweden stock (SW)
2	B2		X			SW
3	B4		X			SW
4	B5		X			SW
5	B6			X		SW
6	B7	X				SW
7	B8		X			SW
8	B9			X		SW
9	B10			X		SW
10	B11		X			SW
11	B12		X			SW
12	B13			X		SW
13	B14		X			SW
14	B15		X			SW
15	B17			X		SW
16	B18		X			SW
17	B19			X		SW
18	B21			X		SW
19	B22			X		SW
20	B24			X		SW
21	B25			X		SW
22	B26		X			SW
23	B27		X			SW
24	B28		X			SW
25	B29			X		SW
26	B30			X		SW
27	B31		X			SW
28	B33		X			SW
29	B35			X		SW
30	B36		X			SW
31	B38			X		SW
32	B39		X			SW
33	B42			X		SW
34	B44		X			SW
35	B45	X				SW
36	B46			X		SW
37	B47		X			SW

38	B48		X			SW
39	S1		X			SW
40	S2		X			SW
41	S3		X			SW
42	S4		X			SW
43	S7			X		SW
44	S8		X			SW
45	S11		X			SW
46	S12		X			SW
47	S14		X			SW
48	S16		X			SW
49	IV22	X				Italian Stocks (IV)
50	IV33	X				IV
51	IV40		X			IV
52	IV42		X			IV
53	IV49	X				IV
54	IV50	X				IV
55	IV52			X		IV
56	IV68		X			IV
57	IV69		X			IV
58	IV72			X		IV
59	IV75		X			IV
60	IV125		X			IV
61	IV127		X			IV
62	IV145	X				IV
63	IV148			X		IV
64	#5816		X			Bloomington
65	#4414	X				Bloomington
66	#7087		X			Bloomington

Table S2. TFBStools hits found in the *kuz* intron region where *FBti0019170* is inserted.

PWM matrix ID	Start position	End position	TFBStools score	Location
PB0148.1	13,565,189	13,565,202	0.9532646	inside TE
PB0148.1	13,565,664	13,565,677	0.9556583	outside TE
PB0148.1	13,565,675	13,565,688	0.9532646	outside TE
PB0148.1	13,605,418	13,605,418	0.9599062	outside TE

Figure S1. Results of the LD₅₀ performed to determine the appropriate concentration of ZnCl₂ to perform the phenotypic assays. In (A) columns represent the average of surviving flies per tube (20 flies). In (B) column represents the average of embryo to adult viability. In each column, error bars represent the standard error of the mean (50 embryos).

