

GENETICS

Supporting Information

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Identification of EMS-Induced Mutations in *Drosophila melanogaster* by Whole-Genome Sequencing

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TABLE S1
Validated SNPs

Chromosome Arm	Position	Reference Base	A15	791	EMS Like?	Is the base in 791 the same as reference?	In a cluster?	Gene	Class	Amino Acid Change
3L	593709	C	C	T	yes	no	no	MED14	Intronic	
3L	906212	C	C	T	yes	no	no		Intergenic	
3L	1041373	C	A	C	no	yes	yes	bab1	Intronic	
3L	1041398	A	G	A	yes	yes	yes	bab1	Intronic	
3L	1041469	A	G	A	yes	yes	yes	bab1	Intronic	
3L	1645444	T	T	A	no	no	no		Intergenic	
3L	2059426	C	C	T	yes	no	no	sls	UTR	
3L	2126482	C	C	T	yes	no	no	zormin	UTR	
3L	2200396	C	T	C	no	yes	no		Intergenic	
3L	3001234	C	C	T	yes	no	no		Intergenic	
3L	3325405	G	G	A	yes	no	no	CG11526	UTR	
3L	3838102	C	C	T	yes	no	no	enc	Nonsense	Q1353X
3L	4327179	C	C	T	yes	no	no	Cip4	Intronic	
3L	4782991	T	C	T	yes	yes	no	Gef64C	Intronic	
3L	4814252	C	C	T	yes	no	no	Dhc64C	UTR	
3L	5582843	C	C	T	yes	no	no	CG5146	Missense	P1873S
3L	5817432	C	C	T	yes	no	no	vn	Intronic	
3L	6484599	C	C	T	yes	no	no	CG10144	UTR	
3L	6648491	C	C	T	yes	no	no		Intergenic	
3L	7796255	C	C	T	yes	no	no	CG32369	Intronic	
3L	8392877	G	T	G	no	yes	no	CG7120	Silent	
3L	9233676	C	G	C	no	yes	no		Intergenic	
3L	9246936	C	C	T	yes	no	no	Glu-RIB	Intronic	
3L	10931836	G	A	G	no	yes	yes		Intergenic	
3L	10931860	T	G	T	no	yes	yes		Intergenic	
3L	10932046	C	C	T	yes	no	yes		Intergenic	
3L	10932079	C	A	C	no	yes	yes		Intergenic	

3L	11069340	C	C	T	yes	no	no	CG7839	Missense	S419F
3L	11635285	C	C	T	yes	no	no	CG32091	Missense	P522S
3L	12333261	C	C	T	yes	no	no	GRHR2	UTR	
3L	12872414	A	G	A	yes	yes	yes		Intergenic	
3L	12872426	G	A	G	no	yes	yes		Intergenic	
3L	13465563	C	C	T	yes	no	no	CG10089	Intronic	
3L	13827647	C	C	T	yes	no	no		Intergenic	
3L	16511276	C	C	T	yes	no	no	CG32158	Intronic	
3L	16622511	C	C	T	yes	no	no	Abl	Intronic	
3L	16672852	T	T	A	no	no	no	Lasp	Intronic/UTR	
3L	17677182	C	C	T	yes	no	no		Intergenic	
3L	19906218	C	C	A	no	no	no	Mtr3	UTR	
3L	20503711	T	T	A	no	no	no	CG32425	Missense	S187T (S471T)
3L	21955324	T	T	G	no	no	no		Intergenic	
3L	22584272	T	T	C	no	no	no	CG14459	Intronic	
3L	23179321	C	C	T	yes	no	no		Intergenic	
3R	976495	C	C	T	yes	no	no		Intergenic	
3R	1304285	T	T	C	no	no	no	CG14670	Intronic	
3R	1750833	C	C	T	yes	no	no	CG34113	Intronic	
3R	2830282	A	T	A	no	yes	yes		Intergenic	
3R	2830500	G	A	G	no	yes	yes		Intergenic	
3R	2830528	G	G	A	yes	no	yes		Intergenic	
3R	4337953	C	C	T	yes	no	no	Or85c	UTR	
3R	5272704	C	C	T	yes	no	no	ps	Intronic/UTR	
3R	5292292	C	C	T	yes	no	no	CG16779	UTR	
3R	5383552	C	C	T	yes	no	no	AP-47	UTR	
3R	5554674	C	C	T	yes	no	no	CG16899	UTR	
3R	5968404	C	C	T	yes	no	no	CG6241	UTR	
3R	6072509	C	C	T	yes	no	no	CG3996	Missense	R2071C
3R	6150369	C	C	G	no	no	no	Bruce	UTR	
3R	7201941	C	C	T	yes	no	no	pros	Missense	P1044S
3R	7816881	C	C	T	yes	no	no	mfas	Intronic	
3R	7843155	C	C	T	yes	no	no	Spt3	Missense	P70S

3R	7995710	C	C	T	yes	no	no		Intergenic
3R	9185010	C	C	T	yes	no	no		Intergenic
3R	10949517	C	C	T	yes	no	no	CG6934	Intronic
3R	11390402	T	T	C	no	no	no		Intergenic
3R	12096648	T	T	A	no	no	no	CG12785	UTR
3R	12880005	T	T	A	no	no	no	Dad	UTR
3R	12963022	G	G	C	no	no	yes		Intergenic
3R	12963458	T	C	T	yes	yes	yes		Intergenic
3R	12963746	A	A	G	no	no	yes	CG5255	Silent
3R	13908490	C	C	T	yes	no	no		Intergenic
3R	14609584	C	C	T	yes	no	no	CG7720	Intronic
3R	16207054	C	C	T	yes	no	no	CG4342 CG7029; CG7023	UTR
3R	18578670	C	C	T	yes	no	no		Intronic
3R	18731867	C	C	T	yes	no	no	klg	Intronic
3R	19172139	T	C	T	yes	yes	no		Intergenic
3R	20189710	C	C	T	yes	no	no	CG33340	UTR
3R	20854439	C	C	T	yes	no	no	Hr96	Silent
3R	21124721	C	C	T	yes	no	no	CG31288	UTR
3R	21456306	G	G	A	yes	no	no		Intergenic
3R	22062090	G	A	G	no	yes	yes		Intergenic
3R	22062277	A	G	A	yes	yes	yes		Intergenic
3R	22062357	T	A	T	no	yes	yes		Intergenic
3R	22062377	A	G	A	yes	yes	yes		Intergenic
3R	22276626	C	C	T	yes	no	no	Hex-t2	Silent
3R	22313870	C	C	T	yes	no	no		Intergenic
3R	22694297	C	C	T	yes	no	no	His2Av	Nonsense
3R	22800877	C	C	T	yes	no	no	CG5521	Silent
3R	23576782	G	C	G	no	yes	yes		Intergenic
3R	23576784	G	A	G	no	yes	yes		Intergenic
3R	23577068	C	A	C	no	yes	yes		Intergenic
3R	23616225	C	C	T	yes	no	no	CG34353	Intronic
3R	23884811	C	C	T	yes	no	no	CG34362	Intronic

Q139X

3R	24345710	C	T	C	no	yes	no	CG31051	UTR	
3R	24866014	A	G	A	yes	yes	no	Pkc98E	Intronic	
3R	24970470	C	C	T	yes	no	no	CG14516	Silent	
3R	25678364	A	G	A	yes	yes	yes	Cad99C	Silent	
3R	25678391	A	G	A	yes	yes	yes	Cad99C	Silent	
3R	25678421	A	G	A	yes	yes	yes	Cad99C	Silent	
3R	25678431	A	A	G	no	no	yes	Cad99C	Missense	S1241G
3R	25815096	C	C	T	yes	no	no	CG7896	Silent	
3R	27309465	C	C	T	yes	no	no		Intergenic	
3R	27659165	C	C	T	yes	no	no	RhoGAP100F	Missense	A25V
3R	27710125	T	T	C	no	no	no	heph	Intronic	