

Table S1

Dm Gene	CG #	Stock #	Genotype	Source	Effect on TDP43, hAtx2		Effect on TDP43		Effect by itself	
A2bp1	CG32062	32476	y[1] sc[*] v[1]; P[y[+t7.7] v[+t1.8]=TriP.HMS00478]attP2	Bloomington	no effect	0	no effect	0	no effect	0
aret	CG31762	38983	y[1] v[1]; P[y[+t7.7] v[+t1.8]=TriP.HMS01899]attP40	Bloomington	no effect	0	no effect	0	no effect	0
B52	CG10851	37519	y[1] sc[*] v[1]; P[y[+t7.7] v[+t1.8]=TriP.HMS01661]attP40	Bloomington	no effect	0	no effect	0	no effect	0
barc	CG6049	42504	y[1] v[1]; P[y[+t7.7] v[+t1.8]=TriP.HMJ02069]attP40	Bloomington	no effect	0	no effect	0	no effect	0
bol	CG4760	v21536	w[1118]; P{GD10525}v21536	VDRC	no effect	0	no effect	0	no effect	0
bru-2	CG43065	50631	y[1] sc[*] v[1]; P[y[+t7.7] v[+t1.8]=TriP.HMC02998]attP2	Bloomington	no effect	0	no effect	0	no effect	0
bru-3	CG43744	43318	y[1] sc[*] v[1]; P[y[+t7.7] v[+t1.8]=TriP.HMS02702]attP40	Bloomington	no effect	0	no effect	0	no effect	0
caz	CG3606	34839	y[1] sc[*] v[1]; P[y[+t7.7] v[+t1.8]=TriP.HMS00156]attP2	Bloomington	no effect	0	no effect	0	no effect	0
cbp20	CG12357	42596	y[1] sc[*] v[1]; P[y[+t7.7] v[+t1.8]=TriP.HMS02428]attP40	Bloomington	no effect	0	no effect	0	no effect	0
CG10466	CG10466	55263	y[1] sc[*] v[1]; P[y[+t7.7] v[+t1.8]=TriP.HMC03950]attP40	Bloomington	no effect	0	no effect	0	no effect	0
CG10948	CG10948	55280	y[1] sc[*] v[1]; P[y[+t7.7] v[+t1.8]=TriP.HMC03967]attP40	Bloomington	no effect	0	no effect	0	no effect	0
CG11266	CG11266	44431	y[1] sc[*] v[1]; P[y[+t7.7] v[+t1.8]=TriP.GLC01382]attP2/TM3, Sb[1]	Bloomington	no effect	0	no effect	0	no effect	0
CG11454	CG11454	GLC01372	y[1] v[1]; P[y[+t7.7] v[+t1.8]=TriP.GLC01372]attP40	TRIP center	no effect	0	no effect	0	no effect	0
CG12288	CG12288	56037	y[1] sc[*] v[1]; P[y[+t7.7] v[+t1.8]=TriP.HMC04345]attP40	Bloomington	no effect	0	suppression	3	no effect	0
CG1316	CG1316	v23851	w[1118]; P{GD7942}v23851/TM3	VDRC	no effect	0	no effect	0	no effect	0
CG13298	CG13298	42873	y[1] sc[*] v[1]; P[y[+t7.7] v[+t1.8]=TriP.HMS02566]attP40	Bloomington	enhancement	-3	enhancement	-2	an effect	-2
CG14641	CG14641	v38790	w[1118]; P{GD8388}v38790/TM3	VDRC	no effect	0	no effect	0	no effect	0
CG14718	CG14718	38331	y[1] sc[*] v[1]; P[y[+t7.7] v[+t1.8]=TriP.HMS01798]attP2	Bloomington	no effect	0	no effect	0	no effect	0
CG15440	CG15440	57807	y[1] v[1]; P[y[+t7.7] v[+t1.8]=TriP.HMJ21815]attP40	Bloomington	suppression	1	Suppression	3	no effect	0
CG17187	CG17187	55702	y[1] sc[*] v[1]; P[y[+t7.7] v[+t1.8]=TriP.HMC03923]attP40	Bloomington	enhancement	-1	Suppression	2	no effect	0
CG18259	CG18259	34081	y[1] sc[*] v[1]; P[y[+t7.7] v[+t1.8]=TriP.HMS01089]attP2/TM3, Sb[1]	Bloomington	no effect	0	no effect	0	no effect	0
CG2931	CG2931	v20946	w[1118]; P{GD9858}v20946	VDRC	no effect	0	no effect	0	no effect	0
CG3294	CG3294	27296	y[1] v[1]; P[y[+t7.7] v[+t1.8]=TriP.JF02606]attP2	Bloomington	no effect	0	no effect	0	no effect	0
CG3335	CG3335	17737	w[1118]; PBac{w[+mC]=PB}CG3335{c05958}/TM6B, Tb[1]	Bloomington	no effect	0	no effect	0	no effect	0
CG33713	CG33713	55374	y[1] sc[*] v[1]; P[y[+t7.7] v[+t1.8]=TriP.HMC04062]attP40/CyO	Bloomington	no effect	0	no effect	0	no effect	0
CG34354	CG34354	33674	y[1] sc[*] v[1]; P[y[+t7.7] v[+t1.8]=TriP.HMS00538]attP2	Bloomington	no effect	0	no effect	0	no effect	0
CG34362	CG34362	v39749	w[1118]; P{GD7852}v39749	VDRC	no effect	0	no effect	1	no effect	0
CG4119	CG4119	v26395	w[1118]; P{GD11222}v26395	VDRC	no effect	0	no effect	0	no effect	0
CG42458	CG42458	42506	y[1] v[1]; P[y[+t7.7] v[+t1.8]=TriP.HMJ02071]attP40	Bloomington	no effect	0	no effect	3	no effect	0
CG4266	CG4266	v26472	w[1118]; P{GD11266}v26472	VDRC	no effect	0	no effect	0	no effect	0
CG4612	CG4612	v52497	w[1118]; P{GD11372}v52497	VDRC	enhancement	-1	enhancement	-1	an effect	-1
CG4806	CG4887	v26633	w[1118]; P{GD11434}v26633	VDRC	Not done		no effect	0	no effect	0
CG4887	CG4887	v21969	w[1118]; P{GD11458}v21969	VDRC	no effect	0	no effect	0	no effect	0
CG4896	CG4896	v26652	w[1118]; P{GD11461}v26652	VDRC	no effect	0	no effect	0	no effect	0
CG5808	CG5808	v22199	w[1118]; P{GD11774}v22199	VDRC	no effect	0	no effect	0	no effect	0
CG6937	CG6937	41824	y[1] v[1]; P[y[+t7.7] v[+t1.8]=TriP.GL01252]attP2/TM3, Sb[1]	Bloomington	no effect	0	no effect	0	no effect	0
CG7185	CG7185	34804	y[1] sc[*] v[1]; P[y[+t7.7] v[+t1.8]=TriP.HMS00113]attP2	Bloomington	enhancement (lethal)	-3	enhancement	-3	an effect	-1
CG7804	CG7804	42579	y[1] sc[*] v[1]; P[y[+t7.7] v[+t1.8]=TriP.HMS01884]attP2	Bloomington	no effect	0	no effect	0	no effect	0
CG7879	CG8205	v15260	w[1118]; P{GD5974}v15260	VDRC	no effect	0	no effect	0	no effect	0
CG8368	CG8368	42635	y[1] sc[*] v[1]; P[y[+t7.7] v[+t1.8]=TriP.HMS02471]attP40	Bloomington	enhancement	-1	suppression	2	no effect	0
CG9107	CG9107	43547	y[1] sc[*] v[1]; P[y[+t7.7] v[+t1.8]=TriP.HMS02555]attP40	Bloomington	no effect	0	no effect	0	no effect	0
CG9346	CG9346	v27013	w[1118]; P{GD14194}v27013	VDRC	no effect	0	no effect	0	no effect	0
Cnot4	CG31716	42513	y[1] v[1]; P[y[+t7.7] v[+t1.8]=TriP.HMJ02078]attP40	Bloomington	no effect	0	no effect	0	no effect	0
cpo	CG43738	28360	y[1] v[1]; P[y[+t7.7] v[+t1.8]=TriP.JF02996]attP2	Bloomington	no effect	0	no effect	0	no effect	0
CstF-64	CG7697	v21045	w[1118]; P{GD9942}v21045/CyO	VDRC	no effect	0	no effect	0	no effect	0
cyp33	CG4886	35611	y[1] sc[*] v[1]; P[y[+t7.7] v[+t1.8]=TriP.GL00451]attP2/TM3, Sb[1]	Bloomington	no effect	0	no effect	0	no effect	0
elF3-S4	CG10881	v35495	w[1118]; P{GD12611}v35495	VDRC	enhancement (lethal)	-3	suppression	3	an effect	1
elF4B	CG10837	57305	y[1] sc[*] v[1]; P[y[+t7.7] v[+t1.8]=TriP.HMS04503]attP40	Bloomington	no effect	0	suppression	3	no effect	0
elav	CG4262	28371	y[1] v[1]; P[y[+t7.7] v[+t1.8]=TriP.JF03008]attP2/TM3, Sb[1]	Bloomington	no effect	0	no effect	0	no effect	0
fne	CG4396	28784	y[1] v[1]; P[y[+t7.7] v[+t1.8]=TriP.JF03212]attP2	Bloomington	no effect	0	no effect	0	no effect	0

fus	CG8205	v107575	P{KK108164}VIE-260B	VDRC	no effect	0	no effect	0	no effect	0
glo	CG6946	33668	y[1] sc[*] v[1]; P[y[+7.7] v[+1.8]=TriP.HMS00079]attP2	Bloomington	no effect	0	no effect	0	no effect	0
gw	CG31992	34796	y[1] sc[*] v[1]; P[y[+7.7] v[+1.8]=TriP.HMS00105]attP2/TM3, Sb[1]	Bloomington	enhancement	-3	enhancement	-1	an effect	1
heph	CG31000	27040	y[1] v[1]; P[y[+7.7] v[+1.8]=TriP.JF02366]attP2	Bloomington	no effect	0	no effect	0	no effect	0
Hrb27C	CG10377	33716	y[1] sc[*] v[1]; P[y[+7.7] v[+1.8]=TriP.HMS00597]attP2	Bloomington	suppression	1	enhancement	-1	no effect	0
Hrb87F	CG12749	31244	y[1] v[1]; P[y[+7.7] v[+1.8]=TriP.JF01757]attP2	Bloomington	enhancement	-2	suppression	1	no effect	0
Hrb98DE	CG9983	32351	y[1] sc[*] v[1]; P[y[+7.7] v[+1.8]=TriP.HMS00342]attP2	Bloomington	enhancement	-1	enhancement	-1	no effect	0
Imp	CG1691	34977	y[1] sc[*] v[1]; P[y[+7.7] v[+1.8]=TriP.HMS01168]attP2	Bloomington	no effect	0	no effect	0	no effect	0
La	CG10922	42789	y[1] v[1]; P[y[+7.7] v[+1.8]=TriP.GLO1159]attP2/TM3, Sb[1]	Bloomington	no effect	0	no effect	0	no effect	0
lark	CG8597	27703	y[1] v[1]; P[y[+7.7] v[+1.8]=TriP.JF02783]attP2	Bloomington	no effect	0	no effect	0	no effect	0
lost	CG14648	38931	y[1] sc[*] v[1]; P[y[+7.7] v[+1.8]=TriP.GLO1090]attP2	Bloomington	no effect	0	no effect	0	no effect	0
LS2	CG3162	55154	y[1] sc[*] v[1]; P[y[+7.7] v[+1.8]=TriP.HMC03812]attP40	Bloomington	no effect	0	no effect	0	no effect	0
musashi	CG5099	4160	msi[1]/TM3, Sb[1]	Bloomington	enhancement	-2	enhancement	-1	no effect	0
Neif-E	CG5994	32835	y[1] sc[*] v[1]; P[y[+7.7] v[+1.8]=TriP.HMS00525]attP2/TM3, Sb[1]	Bloomington	no effect	0	no effect	0	no effect	0
nito	CG2910	34848	y[1] sc[*] v[1]; P[y[+7.7] v[+1.8]=TriP.HMS00166]attP2	Bloomington	no effect	0	no effect	0	no effect	0
nonA	CG4211	52933	y[1] sc[*] v[1]; P[y[+7.7] v[+1.8]=TriP.HMC03675]attP40	Bloomington	no effect	0	no effect	0	no effect	0
nonA-like	CG10328	52934	y[1] sc[*] v[1]; P[y[+7.7] v[+1.8]=TriP.HMC03676]attP40	Bloomington	no effect	0	no effect	0	no effect	0
orb2	CG43782	27050	y[1] v[1]; P[y[+7.7] v[+1.8]=TriP.JF02376]attP2	Bloomington	no effect	0	no effect	0	no effect	0
pAbp	CG5119	36127	y[1] sc[*] v[1]; P[y[+7.7] v[+1.8]=TriP.HMS01542]attP40	Bloomington	no effect	0	no effect	0	no effect	0
pAbp2	CG2163	34602	y[1] sc[*] v[1]; P[y[+7.7] v[+1.8]=TriP.HMS00553]attP2	Bloomington	enhancement	-2	no effect	0	no effect	0
pUf68	CG12085	34785	y[1] sc[*] v[1]; P[y[+7.7] v[+1.8]=TriP.HMS00094]attP2	Bloomington	enhancement	-2	enhancement	-2	no effect	0
Rbp1	CG17136	v21083	w[1118]; P{GD9289}v21083/TM3	VDRC	no effect	0	suppression	2	no effect	0
Rbp1L	CG1987	44100	y[1] sc[*] v[1]; P[y[+7.7] v[+1.8]=TriP.HMS02820]attP40	Bloomington	no effect	0	suppression	3	no effect	0
Rbp2	CG4429	43275	y[1] sc[*] v[1]; P[y[+7.7] v[+1.8]=TriP.GLC01464]attP2	Bloomington	no effect	0	no effect	0	no effect	0
Rbp6	CG32169	v29799	w[1118]; P{GD15236}v29799/CyO	VDRC	enhancement	-1	no effect	0	no effect	0
Rbp9	CG3151	28669	y[1] v[1]; P[y[+7.7] v[+1.8]=TriP.JF03084]attP2	Bloomington	no effect	0	no effect	0	no effect	0
Ref1	CG1101	34626	y[1] sc[*] v[1]; P[y[+7.7] v[+1.8]=TriP.HMS01301]attP2/TM3, Sb[1]	Bloomington	suppression	2	suppression	3	no effect	0
Ref2	CG17031	v32829	w[1118]; P{GD9267}v32829	VDRC	no effect	1	no effect	1	no effect	0
rin	CG9412	33392	y[1] sc[*] v[1]; P[y[+7.7] v[+1.8]=TriP.HMS00269]attP2/TM3, Sb[1]	Bloomington	no effect	0	no effect	0	no effect	0
Rnp4F	CG3312	35457	y[1] sc[*] v[1]; P[y[+7.7] v[+1.8]=TriP.GLO0383]attP2	Bloomington	no effect	0	no effect	0	no effect	0
Rnp51	CG16788	36580	y[1] sc[*] v[1]; P[y[+7.7] v[+1.8]=TriP.GLO0540]attP2	Bloomington	no effect	0	no effect	-1	no effect	0
Rox8	CG5422	32472	y[1] sc[*] v[1]; P[y[+7.7] v[+1.8]=TriP.HMS00472]attP2	Bloomington	no effect	0	no effect	0	no effect	0
rump	CG9373	42665	y[1] sc[*] v[1]; P[y[+7.7] v[+1.8]=TriP.HMS02501]attP40	Bloomington	no effect	0	no effect	0	no effect	0
Saf-B	CG6997	51759	y[1] v[1]; P[y[+7.7] v[+1.8]=TriP.HMC03311]attP2	Bloomington	no effect/black patches?	0	suppression	1	no effect	0
SC35	CG5442	v40590	w[1118]; P{GD11654}v40590	VDRC	no effect	0	no effect	0	no effect	0
Set1	CG40351	40931	y[1] sc[*] v[1]; P[y[+7.7] v[+1.8]=TriP.HMS02179]attP40	Bloomington	no effect	0	no effect	0	no effect	0
SF2	CG6987	32367	y[1] sc[*] v[1]; P[y[+7.7] v[+1.8]=TriP.HMS00358]attP2	Bloomington	no effect	0	suppression	2	no effect	0
shp	CG32423	43545	y[1] sc[*] v[1]; P[y[+7.7] v[+1.8]=TriP.HMS02666]attP40	Bloomington	enhancement	-3	suppression	3	no effect	0
sm	CG9218	v28117	w[1118]; P{GD12545}v28117/TM3	VDRC	no effect	0	no effect	0	no effect	0
snf	CG4528	34953	y[1] sc[*] v[1]; P[y[+7.7] v[+1.8]=TriP.HMS01067]attP2/TM3, Sb[1]	Bloomington	no effect	0	no effect	0	no effect	0
Snp	CG44248	33434	y[1] sc[*] v[1]; P[y[+7.7] v[+1.8]=TriP.HMS00321]attP2	Bloomington	no effect	0	no effect	0	no effect	0
snRNP-U1-70K	CG8749	33396	y[1] sc[*] v[1]; P[y[+7.7] v[+1.8]=TriP.HMS00274]attP2	Bloomington	enhancement	-3	enhancement	-2	lethal	-3
Spargel	CG9809	33915	y[1] sc[*] v[1]; P[y[+7.7] v[+1.8]=TriP.HMS00858]attP2	Bloomington	no effect	0	no effect	0	no effect	0
spen	CG18497	33398	y[1] sc[*] v[1]; P[y[+7.7] v[+1.8]=TriP.HMS00276]attP2	Bloomington	enhancement	-3	enhancement	-3	an effect	-3
Spf45	CG17540	41954	y[1] sc[*] v[1]; P[y[+7.7] v[+1.8]=TriP.HMS02351]attP2	Bloomington	no effect	0	no effect	0	no effect	0
Spx	CG3780	v40471	w[1118]; P{GD11072}v40471	VDRC	enhancement	-3	enhancement	-2	no effect	0
sqd	CG16901	31302	y[1] v[1]; P[y[+7.7] v[+1.8]=TriP.JF01248]attP2	Bloomington	no effect	0	no effect	0	no effect	0
Srp54	CG6340	30533	y[1] sc[*] v[1]; P[y[+7.7] v[+1.8]=TriP.HM05224]attP2	Bloomington	no effect	0	no effect	0	no effect	0
swm	CG10084	52935	y[1] sc[*] v[1]; P[y[+7.7] v[+1.8]=TriP.HMC03677]attP40	Bloomington	suppression	1	suppression	3	no effect	0
Sxl	CG43770	34393	y[1] sc[*] v[1]; P[y[+7.7] v[+1.8]=TriP.HMS00609]attP2	Bloomington	no effect	0	no effect	0	no effect	0
Syp	CG17838	v33011	w[1118]; P{GD9477}v33011	VDRC	no effect	0	no effect	0	no effect	0
TBPH	CG10327	39014	y[1] v[1]; P[y[+7.7] v[+1.8]=TriP.HMS01932]attP40	Bloomington	no effect	0	no effect	0	no effect	0

tra2	CG10128	28018	y[1] v[1]; P{y[+7.7] v[+1.8]=TRiP.JF02852}attP2	Bloomington	no effect	0	no effect	0	no effect	0
tsu	CG8781	28955	y[1] v[1]; P{y[+7.7] v[+1.8]=TRiP.HM05166}attP2	Bloomington	no effect	0	suppression	3	no effect	0
U2af38	CG3582	29304	y[1] v[1]; P{y[+7.7] v[+1.8]=TRiP.JF02444}attP2	Bloomington	no effect	0	suppression	3	no effect	0
U2af50	CG9998	27542	y[1] v[1]; P{y[+7.7] v[+1.8]=TRiP.JF02693}attP2	Bloomington	no effect	0	no effect	0	no effect	0
x16	CG10203	51468	y[1] v[1]; P{y[+7.7] v[+1.8]=TRiP.HMC03209}attP2	Bloomington	no effect	0	no effect	0	no effect	0