

Supplementary Table S1

Strain	Mutation	Basic model	Imperfect transfection model			Segregation model			Soft threshold model		
		estimated T	estimated T	estimated coefficient of variation	p value of comparison to basic model (F-test)	estimated T	estimated segregation parameter	p value of comparison to basic model (F-test)	estimated T _{1/2}	estimated h	p value of comparison to basic model (F-test)
NL4-3	R508SR511S	4	12	0.952	<0.0005	12	0.984	<0.0005	7.986	1.328	<0.0005
NL4-3	V513E	7	18	0.977	<0.0005	18	1	<0.0005	20.108	1.596	<0.0005
JR-FL	R508SR511S	2	8	0.98	<0.0005	8	1	<0.0005	2.134	1.232	<0.0005
JR-FL	V513E	2	8	0.953	<0.0005	8	1	<0.0005	79.074	0.463	<0.0005
SF162	R508SR511S	5	12	0.859	<0.0005	13	0.993	<0.0005	5.834	1.643	<0.0005
SF162	V513E	4	12	1	<0.0005	11	1	<0.0005	100	0.576	<0.0005
ZM214	R508SR511S	2	3	0.084	<0.0005	3	0.235	0.094	1.956	7.578	0.042
ZM214	V513E	2	7	0.951	<0.0005	7	1	<0.0005	100	0.525	<0.0005
CAP88	R508SR511S	6	8	0.152	<0.0005	18	0.976	0.001	10.329	2.933	<0.0005
CAP88	V513E	7	20	0.977	<0.0005	19	1	<0.0005	100	1.815	<0.0005
RHPA	R508SR511S	2	8	0.93	<0.0005	8	0.972	<0.0005	4.17	0.718	<0.0005
RHPA	V513E	3	10	1	<0.0005	9	0.99	<0.0005	12.209	0.668	<0.0005
AC10	R508SR511S	3	7	0.568	<0.0005	5	0.509	0.412	2.454	2.94	0.038
AC10	V513E	2	7	0.979	<0.0005	7	1	<0.0005	3.223	0.329	<0.0005
REJO	R508SR511S	1	2	0.262	<0.0005	2	0.464	0.055	94.882	0.061	0.044
REJO	V513E	2	6	0.872	<0.0005	6	0.966	<0.0005	3.541	0.519	<0.0005
P3N	R508SR511S	2	10	0.986	<0.0005	10	1	<0.0005	1.867	1.283	<0.0005
P3N	V513E	2	10	0.998	<0.0005	10	1	<0.0005	1.954	0.825	<0.0005
ZA110	R508SR511S	2	4	0.378	<0.0005	4	0.598	0.081	1.364	2.932	<0.0005
ZA110	V513E	2	8	1	<0.0005	7	0.969	<0.0005	1.357	0.872	<0.0005
BG505	R508SR511S	3	4	0.165	<0.0005	5	0.567	0.111	2.593	2.89	0.001
BG505	V513E	2	7	0.933	<0.0005	7	1	<0.0005	1.878	1.132	<0.0005