

Table S2 Graphical illustration of genotypes of individuals showing recombination between *Alt* and flanking markers

Markers/Trait	Mdo.chr1.27	Mdo.chr1.28	3_34-12 (288bp)	Mdo.chr1.3	Mdo.chr1.33m	3_34-12 (252bp)	Phenotype	3-34-18	Mdo.chr1.34	Mdo.chr1.35	Mdo.chr1.5	Mdo.chr1.38	Mdo.chr1.39	Mdo.chr1.41	Mdo.chr1.44
Origin of SSR in apple genome version 1.0 primary assembly	2903kb	2915kb	(3156kb)	3064kb	3157kb	3156kb		3160kb	3166kb	3201kb	3527kb	3564kb	3610kb	3670kb	3952kb
<i>Alt</i> (susceptibility) associated alleles (bp)	261	278	288	223	267	252		299	288	251	178	373	397	305	173
Number of recombinants with <i>Alt</i>	4	4	3	2	1	0		0	1	2	3	5	6	11	19

  

Plant ID	Genotype	Phenotype
JSD_26	S	S
JSD_32	S	S
P13_7-3806	mn	S
P2_23	S	S
P7_7-2058	mn	S
P4_14	S	S
P3_2	S	S
P13_7-3743	mn	S
P13_7-3693	mn	R
P13_7-3709	mn	R
JSD_45	R	R
P4_5	R	R
P6_7-49	mn	R
P10_7-3141	R	R
P1_38	R	R
P2_10	R	R
P4_37	R	R
P11_7-3284	mn	R
P1_35	R	R
P7_7-2120	mn	R
P6_7-50	mn	R
P13_7-3799	mn	R
P3_1	S	S

mn indicates allele that was not identify whether the origin was susceptible or resistant parent.