

Table 2 QTLs and their additive effect on the substituted segments in CSSLs for MRL, CRL, and CRE

CSSL	Chromosome	Substituted segment	Length(cM)	QTL	Additive effect	Additive effect percentage (%)
CSSL29	3	RM1319-RM1164	14.8	<i>qMRL-3-1</i>	- 0.21	- 3.33
CSSL28	3	RM5551-RM1164	16.6	<i>qMRL-3-1</i>	- 0.18	- 2.86
CSSL30	3	RM6832-RM6266	18.2	<i>qMRL-3-2</i>	- 0.41	- 6.51
CSSL33	3	RM6266-RM3513	21.3	<i>qMRL-3-2</i>	- 0.34	- 5.40
CSSL35	3	RM6266-RM1350	40.8	<i>qMRL-3-2</i>	- 0.32	- 5.08
CSSL30	3	RM6832-RM6266	18.2	<i>qCRL-3-2</i>	- 0.34	- 3.66
CSSL33	3	RM6266-RM3513	21.3	<i>qCRL-3-2</i>	- 0.23	- 2.48
CSSL35	3	RM6266-RM1350	40.8	<i>qCRL-3-2</i>	- 0.21	- 2.26
CSSL43	4	RM1113	9.5	<i>qCRE-4</i>	- 4.02	- 8.46
CSSL41	4	RM5709-RM280	22.7	<i>qCRE-4</i>	- 3.24	- 6.85
CSSL53	6	RM587	4.6	<i>qCRL-6</i>	- 0.31	- 3.34
CSSL52	6	RM587-RM510	16.2	<i>qCRL-6</i>	- 0.41	- 4.42
CSSL53	6	RM587	4.6	<i>qCRE-6</i>	- 5.80	- 12.26
CSSL52	6	RM587-RM510	16.2	<i>qCRE-6</i>	- 5.62	- 11.88
CSSL73	8	RM6208	8.6	<i>qMRL-8</i>	- 0.17	- 2.70
CSSL72	8	RM4085-RM6208	13.7	<i>qMRL-8</i>	- 0.14	- 2.22
CSSL74	8	RM6208-RM3153	32.3	<i>qMRL-8</i>	- 0.16	- 2.54
CSSL73	8	RM6208	8.6	<i>qCRL-8</i>	- 0.28	- 3.02
CSSL72	8	RM4085-RM6208	13.7	<i>qCRL-8</i>	- 0.21	- 2.26
CSSL74	8	RM6208-RM3153	32.3	<i>qCRL-8</i>	- 0.26	- 2.80
CSSL81	9	RM566-RM1189	39.9	<i>qCRL-9</i>	- 0.19	- 2.05
CSSL83	9	RM1189-RM6862	33.4	<i>qCRL-9</i>	- 0.16	- 1.72
CSSL81	9	RM566-RM1189	39.9	<i>qCRE-9</i>	- 3.85	- 8.14
CSSL83	9	RM1189-RM6862	33.4	<i>qCRE-9</i>	- 4.15	- 8.77
CSSL89	10	RM4915-RM3451	51.5	<i>qCRE-10</i>	- 2.82	- 5.96
CSSL94	11	RM5474-RM1233	27.9	<i>qCRE-11</i>	- 3.15	- 6.66