

Article title: Effects of *Solanum demissum* chromosomes on crossability in the backcross progeny to *S. tuberosum*

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Supplementary Table 5 QTLs ($P < 0.05$) detected by interval mapping. The most significant position with the highest % explanation in each chromosome and the mean value for the presence and absence of the *S. demissum*-specific marker are shown

Trait	Chr.	Position (cM)	Marker interval	Mean value		% Explanation
				Presence	Absence	
BC ₁ ×D (%)	8D2	121.0	AAG/CAC/242 – AAG/CAC/197	45.1	23.0	13.9
	9A	48.7	AGC/CTA/a – AGC/CTA/c	49.2	22.9	19.0
	12A	197.5	STM3/158 – AGC/CTG/239	40.6	19.9	11.4
BC ₁ ×T (%)	6c	65.8	STI15 – AGC/CTA/191	28.3	47.7	10.1
	9A	84.1	AAG/CAA/a – ACT/CAT/325	59.0	27.1	28.9
F(D–T) (%)	2D1	66.0	AAG/CAT/198 – STM38	1.0	–15.7	12.6
	2D1	217.8	ACT/CTG/c – STM1030/170	–16.0	1.3	13.5
	4A	6.0	ACT/CTT/170 – ACT/CTT/265	–15.9	4.5	18.0
	7D2	191.2	STM14/178 – AAG/CAA/e	–15.0	2.1	13.0
BC ₁ ×D (mg)	3D1	97.6	ACC/CAG/289 – ACG/CAA/145	0.41	0.47	11.9
	5D2	179.5	AGC/GAC/168 – STM1031	0.40	0.48	20.4
BC ₁ ×T (mg)	7A	62.5	STI33 – STI13/135	0.83	0.73	15.7
	9A	9.0	ACC/CAA/209 – ACT/CTT/263	0.72	0.83	24.1
F(D–T) (mg)	9A	7.0	ACC/CAA/209 – ACT/CTT/263	–0.30	–0.39	17.9
BC ₁ ×D (no.)	2A	112.5	AGC/GAG/146 – AAG/CAA/238	61.3	95.1	14.3
	6b	142.6	STI21/88 – ACT/CAG/f	67.5	101.5	16.0
BC ₁ ×T (no.)	4D2	188.8	AGC/CTG/147 – ACC/CTA/b	45.1	68.8	18.6
	6c	65.8	STI15 – AGC/CTA/191	42.3	62.4	11.8
	7A	80.3	ACT/CAC/227 – ACT/CTT/I	43.3	64.9	15.1
	7D1	151.5	ACA/CAG/a – AAC/CTC/125	44.2	65.8	15.4
	12D2	12.0	STM2028/410 – AGC/GTA/211	45.7	65.5	12.9
F(D–T) (no.)	4D1	82.6	ACT/CTT/299 – ACA/CAT/255	17.0	44.8	16.0
	10D1	71.6	ACG/CAT/167 – ACG/CAA/b	14.9	45.8	20.2

D×BC ₁ (%)	5D1	134.1	ACA/CAC/203 – TG23/303	3.5	18.8	18.2
	7A	54.6	AAG/CAC/f – STI33	4.9	17.2	11.8
	9A	16.0	ACC/CAA/209 – ACT/CTT/263	18.7	4.7	14.9
	10A	0.0	AAG/CTG/188 – ACT/CTT/167	3.2	17.5	15.7
	10D1	91.2	AAG/CAC/d – ACT/CTG/156	16.8	6.4	8.2
T×BC ₁ (%)	1D1	43.1	STI37/b – AAC/CAG/297	0.0	2.6	11.0
	9A	61.1	ACG/CAT/171 – STI5	2.5	0.1	9.0
M(D–T) (%)	1A	210.8	AGC/CTG/c – ACA/CTC/230	2.9	13.5	12.8
	5D1	133.1	ACA/CAC/203 – TG23/303	2.4	15.4	19.4
	7A	57.6	AAG/CAC/f – STI33	3.5	14.7	14.5
	10A	50.3	ACC/CAA/320 – TG63/390	2.2	14.4	17.2
D×BC ₁ (mg)	8A	70.8	AAG/CAC/210 – ACG/CAT/252	0.73	0.56	28.2
	9A	1.0	ACC/CAA/209 – ACT/CTT/263	0.70	0.53	29.2
	12D2	0.0	STM2028/410 – AGC/GTA/211	0.55	0.70	22.6
	13	2.0	ACT/CAT/260 – ACA/CTC/170	0.71	0.55	24.7
	8D1a	98.4	AAC/CAG/a – AAG/CAT/b	15.8	30.6	28.2
D×BC ₁ (no.)	8D1b	12.0	ACA/CTA/224 – STM1001/128	16.5	30.5	25.1
	13	43.5	AAG/CAC/240 – ACT/CTT/169	15.3	29.4	25.9