

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

**Journal name:** Euphytica

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**Supplementary Table 2** Somatic chromosome number and crossability of 89 BC<sub>1</sub> genotypes in crosses of BC<sub>1</sub> × T

No.	Clonal identity	2n	No. of flowers	No. of berries	Berry-setting rate (%)	Total no. of seeds	Total seed weight (mg)	Average seed weight (mg)	Seeds/ berry
1	7H2S-1	55	18	7	38.9	217	187.8	0.87	31
2	7H2S-2	57	5	0	0.0	0	0	-	-
3	7H2S-3	54	21	18	85.7	1363	1401	1.03	76
4	7H2S-4	55	18	0	0.0	0	0	-	-
5	7H2S-5	53	13	5	38.5	49	35	0.72	10
6	7H2S-6	52	18	14	77.8	1704	1649.8	0.97	122
7	7H2S-7	54	21	7	33.3	66	45	0.69	9
8	7H2S-9	51	25	6	24.0	181	122.8	0.68	30
9	7H2S-11	51	18	0	0.0	0	0	-	-
10	7H2S-13	56	6	4	66.7	146	89	0.61	37
11	7H2S-14	51	10	1	10.0	24	15	0.62	24
12	7H2S-15	55	21	8	38.1	375	217	0.58	47
13	7H2S-16	54	21	10	47.6	537	472.0	0.88	54
14	7H2S-17	54	17	6	35.3	416	337.8	0.81	69
15	7H2S-18	54	18	9	50.0	331	293.7	0.89	37
16	7H2S-19	53	15	9	60.0	104	82	0.79	12
17	7H2S-20	54	20	0	0.0	0	0	-	-
18	7H2S-21	53	18	12	66.7	1061	602	0.57	88
19	7H2S-22	52	21	16	76.2	1013	818.5	0.81	63
20	7H2S-23	55	19	5	26.3	158	117.1	0.74	32
21	7H2S-24	53	21	4	19.0	314	213.5	0.68	79
22	7H2S-25	55	16	16	100.0	2527	1815.9	0.72	158
23	7H2S-26	53	12	8	66.7	350	285	0.81	44
24	7H2S-27	56	20	5	25.0	187	145	0.77	37
25	7H2S-28	51	23	16	69.6	1317	717	0.54	82
26	7H2S-29	56	16	4	25.0	285	190	0.67	71
27	7H2S-30	55	17	9	52.9	250	235.4	0.94	28
28	7H2S-32	55	16	0	0.0	0	0	-	-
29	7H2S-33	49	18	8	44.4	350	299	0.85	44
30	7H2S-34	53	20	19	95.0	1494	1308	0.88	79
31	7H2S-35	50	17	6	35.3	499	387	0.78	83
32	7H2S-36	54	22	3	13.6	110	79	0.71	37
33	7H2S-37	53	20	1	5.0	20	18	0.91	20
34	7H2S-38	54	28	1	3.6	32	28	0.87	32
35	7H2S-39	54	23	0	0.0	0	0	-	-
36	7H2S-41	58	20	1	5.0	78	62	0.80	78
37	7H2S-42	51	0	0	-	0	0	-	-
38	7H2S-43	50	0	0	-	0	0	-	-
39	7H2S-44	52	17	0	0.0	0	0	-	-
40	7H2S-45	51	8	8	100.0	918	498	0.54	115
41	7H2S-46	53	22	0	0.0	0	0	-	-
42	7H2S-47	59	20	14	70.0	846	606.7	0.72	60
43	7H2S-49	58	21	0	0.0	0	0	-	-

44	7H2S-50	58	20	13	65.0	637	542	0.85	49
45	7H2S-51	52	0	0	-	0	0	-	-
46	7H2L-2	53	20	0	0.0	0	0	-	-
47	7H2L-3	56	21	17	81.0	1372	1032	0.75	81
48	7H2L-5	54	15	9	60.0	437	288	0.66	49
49	7H2L-6	51	8	5	62.5	271	203	0.75	54
50	7H2L-7	53	20	9	45.0	156	112	0.72	17
51	7H2L-8	50	3	3	100.0	262	189	0.72	87
52	7H2L-10	55	8	7	87.5	625	342	0.55	89
53	7H2L-12	56	21	8	38.1	423	328	0.78	53
54	7H2L-13	50	20	14	70.0	470	395.0	0.84	34
55	7H2L-15	53	18	5	27.8	454	431.4	0.95	91
56	7H2L-16	55	14	9	64.3	311	237	0.76	35
57	7H2L-18	55	17	5	29.4	206	174.3	0.85	41
58	7H2L-19	52	18	5	27.8	312	304.9	0.98	62
59	7H2L-21	55	22	12	54.5	699	428.6	0.61	58
60	7H2L-22	nd	17	5	29.4	211	188	0.89	42
61	7H2L-23	55	16	7	43.8	104	88.7	0.85	15
62	7H2L-24	50	20	3	15.0	222	163.7	0.74	74
63	7H2L-25	54	17	0	0.0	0	0	-	-
64	7H2L-26	54	19	17	89.5	1028	823	0.80	60
65	7H2L-27	51	21	14	66.7	626	480	0.77	45
66	7H2L-28	54	18	7	38.9	273	190.2	0.70	39
67	7H2L-29	53	16	10	62.5	622	496.2	0.80	62
68	7H2L-30	52	17	14	82.4	709	595.3	0.84	51
69	7H2L-31	54	2	0	0.0	0	0	-	-
70	7H2L-32	52	20	17	85.0	1126	931.9	0.83	66
71	7H2L-33	55	17	1	5.9	64	45.1	0.70	64
72	7H2L-35	54	9	4	44.4	224	139	0.62	56
73	7H2L-36	53	20	0	0.0	0	0	-	-
74	7H2L-37	56	24	18	75.0	809	580	0.72	45
75	7H2L-38	54	18	16	88.9	1442	1604	1.11	90
76	7H2L-39	54	5	3	60.0	244	157	0.64	81
77	7H2L-40	51	18	9	50.0	241	188	0.78	27
78	7H2L-41	55	4	3	75.0	103	63	0.61	34
79	7H2L-42	53	0	0	-	0	0	-	-
80	7H2L-43	52	16	12	75.0	1199	1013.4	0.85	100
81	7H2L-44	50	16	5	31.3	295	199	0.67	59
82	7H2L-45	56	1	1	100.0	38	26	0.69	38
83	7H2L-46	54	17	1	5.9	73	63	0.86	73
84	7H2L-48	51	3	1	33.3	26	25	0.96	26
85	7H2L-49	54	4	0	0.0	0	0	-	-
86	7H2L-50	54	17	10	58.8	710	584	0.82	71
87	7H2L-53	51	11	3	27.3	184	136	0.74	61
88	7H2L-55	nd	17	5	29.4	207	190	0.92	41
89	7H2L-56	54	25	18	72.0	1061	941	0.89	59

nd=not determined