

Table S3: Genetic characterization of BC₁F₂ plants using both 1BS and 1PS specific chromosome markers. 1BS/1PS recombination events are indicated as recombinants type 1 and 2, respectively.

BC ₁ F ₂ plant	1BS markers									1PS markers						1PS introgression
	Xgwm11	Xgwm273	Xgwm413	Xwmc619	Xwmc290	Xwmc406	Xwmc798	GluB3a	Xpsp-3000 (<i>Gli-B1</i>)	AgC69174	AgC5870	AgC29588	AgC64023	AgC26797	AgC27774	
1	-	-	-	-	-	-	-	-	-	+	+	+	+	+	+	Yes (2T-1PS-1BL)
2	+	+	+	+	+	+	+	-	-	+	+	+	+	+	+	Yes, RECOMBINANT type 1
3	+	+	+	+	+	+	+	-	-	+	+	+	+	+	+	Yes (2T-1PS-1BL)
4	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	No
5	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	No
6	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Yes (1T-1PS-1BL)
7	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	No
8	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	No
9	-	-	-	-	-	-	-	-	-	+	+	+	+	+	+	Yes (2T-1PS-1BL)
10	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	No
11	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	No
12	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	No
13	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Yes (1T-1PS-1BL)
14	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Yes (1T-1PS-1BL)
15	-	-	-	-	-	-	-	-	-	+	+	+	+	+	+	Yes (2T-1PS-1BL)
16	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Yes (1T-1PS-1BL)
17	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Yes (1T-1PS-1BL)
18	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Yes (1T-1PS-1BL)
19	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Yes (1T-1PS-1BL)
20	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	No
21	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Yes (1T-1PS-1BL)
22	-	-	-	-	-	-	-	-	-	+	+	+	+	+	+	Yes (2T-1PS-1BL)
23	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	No
24	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Yes (1T-1PS-1BL)
25	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	No
26	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Yes (1T-1PS-1BL)
27	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	No
28	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	No
29	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	No
30	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	No
31	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Yes (1T-1PS-1BL)
32	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Yes (1T-1PS-1BL)
33	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	No
34	-	-	-	-	-	-	-	-	-	+	+	+	+	+	+	Yes (2T-1PS-1BL)
35	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Yes (1T-1PS-1BL)
36	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Yes (1T-1PS-1BL)
37	-	-	-	-	-	-	-	-	-	+	+	+	+	+	+	Yes (2T-1PS-1BL)

Table S3: Cont.

BC ₁ F ₂ plant	1BS markers									1PS markers						1PS introgression
	Xgwm11	Xgwm273	Xgwm413	Xwmc619	Xwmc230	Xwmc406	Xwmc798	GluB3a	Xpsp-3000 (Gli-B1)	AgC69174	AgC3870	AgC29588	AgC64023	AgC26797	AgC27774	
38	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	No
39	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Yes (1T-1PS-1BL)
40	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Yes (1T-1PS-1BL)
41	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Yes (1T-1PS-1BL)
42	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	No
43	-	-	-	-	-	-	-	+	+	+	+	+	+	+	+	Yes, RECOMBINANT type 2
44	-	-	-	-	-	-	-	-	-	+	+	+	+	+	+	Yes (2T-1PS-1BL)
45	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	No
46	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	No
47	-	-	-	-	-	-	-	-	-	+	+	+	+	+	+	Yes (2T-1PS-1BL)
48	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Yes (1T-1PS-1BL)
49	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Yes (1T-1PS-1BL)
50	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	No
51	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Yes (1T-1PS-1BL)
52	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	No
53	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Yes (1T-1PS-1BL)
54	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Yes (1T-1PS-1BL)
55	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	No
56	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	No
57	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Yes (1T-1PS-1BL)
58	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	No
59	-	-	-	-	-	-	-	-	-	+	+	+	+	+	+	Yes (2T-1PS-1BL)
60	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Yes (1T-1PS-1BL)
61	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	No
62	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	No
63	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Yes (1T-1PS-1BL)
64	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	No
65	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Yes (1T-1PS-1BL)
66	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	No
67	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	No
68	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Yes (1T-1PS-1BL)
69	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	No
70	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Yes (1T-1PS-1BL)
71	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Yes (1T-1PS-1BL)
72	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Yes (1T-1PS-1BL)
73	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Yes (1T-1PS-1BL)
74	-	-	-	-	-	-	-	-	-	+	+	+	+	+	+	Yes (2T-1PS-1BL)

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BC ₁ F ₂ plant	1BS markers										1PS markers						1PS introgression
	Xgwm11	Xgwm273	Xgwm413	Xwmc619	Xwmc230	Xwmc406	Xwmc798	GluB3a	Xpsp-3000 (<i>Gli-B1</i>)	AgC69174	AgC5870	AgC29588	AgC64023	AgC26797	AgC27774		
75	-	-	-	-	-	-	-	-	-	+	+	+	+	+	+	Yes (2T-1PS-1BL)	
76	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	No	
77	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	No	
78	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	No	
79	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	No	
80	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	No	
81	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Yes (1T-1PS-1BL)	
82	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	No	
83	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	No	
84	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	No	
85	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Yes (1T-1PS-1BL)	
86	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Yes (1T-1PS-1BL)	
87	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	No	
88	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	No	
89	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Yes (1T-1PS-1BL)	
90	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	No	
91	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Yes (1T-1PS-1BL)	