RILs: a = inheritance of N2-polymorphism (red color), b = inheritance of CB4856-polymorphism (green color); white is missing data

chromosome	marker#	WN1	WN2	WN3	WN4	WN5	WN6	WN7	WN8	WN9	WN10	WN11	WN12	WN13	WN14	WN15	WN16	WN17	WN18	WN19	WN20	WN21	WN22	WN23	WN24	WN25
I	1–20	(genotype grid, markers 1–20)																								
II	1–20	(genotype grid, markers 1–20)																								
III	1–20	(genotype grid, markers 1–20)																								
IV	1–20	(genotype grid, markers 1–20)																								
V	1–21	(genotype grid, markers 1–21)																								
X	1–20	(genotype grid, markers 1–20)																								

	WN1	WN2	WN3	WN4	WN5	WN6	WN7	WN8	WN9	WN10	WN11	WN12	WN13	WN14	WN15	WN16	WN17	WN18	WN19	WN20	WN21	WN22	WN23	WN24	WN25
Number of N2-markers	46	72	80	45	57	63	32	48	67	74	86	63	47	83	75	80	84	38	99	66	59	38	-	59	42
Number of CB4856-markers	75	49	41	76	64	58	89	73	54	47	35	58	74	38	46	41	37	83	22	55	62	83	-	62	79
RIL-specific N2/CB4856 ratio	0.613	1.469	1.951	0.592	0.891	1.086	0.36	0.658	1.241	1.574	2.457	1.086	0.635	2.184	1.63	1.951	2.27	0.458	4.5	1.2	0.952	0.458	-	0.952	0.532

WN26	WN27	WN28	WN29	WN30	WN31	WN32	WN33	WN34	WN35	WN36	WN37	WN38	WN39	WN40	WN41	WN42	WN43	WN44	WN45	WN46	WN47	WN48	WN49	WN50	WN51	WN52	WN53	WN54
46	68	80	61	66	83	45	59	55	62	62	69	39	57	56	95	34	57	64	51	61	64	95	84	72	91	66	53	78
75	53	41	60	55	38	76	62	66	59	59	52	82	64	65	26	87	64	57	70	60	57	26	37	49	30	55	68	43
0.613	1.283	1.951	1.017	1.2	2.184	0.592	0.952	0.833	1.051	1.051	1.327	0.476	0.891	0.862	3.654	0.391	0.891	1.123	0.729	1.017	1.123	3.654	2.27	1.469	3.033	1.2	0.779	1.814

																										Number of N2-markers	Number of CB4856-markers
WN55	WN56	WN57	WN58	WN59	WN60	WN61	WN62	WN63	WN64	WN65	WN66	WN67	WN68	WN69	WN70	WN71	WN72	WN73	WN74	WN75	WN76	WN77	WN78	WN79	WN80		

Genotype marker matrix (cells coded a / b). Right-hand marker counts per row:

Block 1 (N2 / CB4856): 53/27, 54/26, 71/8, 72/7, 66/13, 60/20, 61/19, 61/18, 61/19, 60/19, 61/19, 60/20, 57/23, 57/23, 55/24, 54/25, 54/26, 51/29, 50/30, 50/30

Block 2: 36/43, 36/43, 36/43, 34/46, 33/47, 32/47, 34/45, 32/47, 32/47, 33/46, 33/46, 34/45, 34/45, 34/45, 33/46, 34/45, 35/44, 36/43, 42/38, 43/36

Block 3: 39/40, 39/40, 41/38, 45/34, 44/35, 46/33, 45/34, 41/38, 41/38, 40/39, 41/38, 40/39, 40/39, 40/39, 40/39, 45/34, 47/32, 44/35, 45/34

Block 4: 43/36, 39/40, 36/43, 36/43, 35/44, 34/45, 34/45, 36/43, 36/43, 34/45, 33/46, 33/46, 33/46, 33/46, 31/48, 32/47, 33/46, 31/48, 33/46, 33/46

Block 5: 41/38, 39/40, 38/41, 36/43, 34/45, 34/45, 36/43, 33/46, 33/46, 32/47, 33/46, 34/45, 34/45, 35/44, 37/42, 36/43, 36/43, 31/48, 33/46, 36/43, 36/43

Block 6: 49/30, 50/29, 49/30, 51/28, 50/29, 51/28, 52/27, 47/32, 50/29, 50/29, 48/31, 49/30, 45/34, 44/35, 45/34, 41/38, 45/34, 43/36, 43/36

Bottom summary rows (per column WN55–WN80):

WN55	WN56	WN57	WN58	WN59	WN60	WN61	WN62	WN63	WN64	WN65	WN66	WN67	WN68	WN69	WN70	WN71	WN72	WN73	WN74	WN75	WN76	WN77	WN78	WN79	WN80
42	79	65	49	82	90	82	85	70	84	48	95	67	42	74	44	50	55	78	52	47	57	53	59	48	94
79	42	56	72	39	31	39	36	51	37	73	26	54	79	47	77	71	66	43	69	74	64	68	62	73	27
0.532	1.881	1.161	0.681	2.103	2.903	2.103	2.361	1.373	2.27	0.658	3.654	1.241	0.532	1.574	0.571	0.704	0.833	1.814	0.754	0.635	0.891	0.779	0.952	0.658	3.481

marker segregation ratio N2/CB4856
1.9630
2.0769
8.8750
10.2857
5.0769
3.0000
3.2105
3.3889
3.2105
3.1579
3.2105
3.0000
2.4783
2.4783
2.2917
2.1600
2.0769
1.7586
1.6667
1.6667
0.8372
0.8372
0.8372
0.7391
0.7021
0.6809
0.7556
0.6809
0.6809
0.7174
0.7174
0.7556
0.7556
0.7556
0.7174
0.7556
0.7955
0.8372
1.1053
1.1944
0.9750
0.9750
1.0789
1.3235
1.2571
1.3939
1.3235
1.0789
1.0789
1.0256
1.0256
1.0789
1.0256
1.0256
1.0256
1.0256
1.3235
1.4688
1.2571
1.3235
1.1944
0.9750
0.8372
0.8372
0.7955
0.7556
0.7556
0.8372
0.8372
0.7556
0.7174
0.7174
0.7174
0.7174
0.6458
0.6809
0.7174
0.6458
0.7174
0.7174
1.0789
0.9750
0.9268
0.8372
0.7556
0.7556
0.8372
0.7174
0.7174
0.6809
0.7174
0.7556
0.7556
0.7955
0.8810
0.8372
0.8372
0.6458
0.7174
0.8372
0.8372
1.6333
1.7241
1.6333
1.8214
1.7241
1.8214
1.9259
1.4688
1.7241
1.7241
1.5484
1.6333
1.3235
1.2571
1.3235
1.0789
1.3235
1.1944
1.1944
1.1944