Additional File 1: Marker information

Table I: Overview of markers used for genotyping the (Bur×L*er*) RIL Population

Marker Name	Marker Type	Chr.	Source
nga59	SSR	1	TAIR
F16J7-TRB	SSR	1	TAIR
JV26/27	SSR	1	TAIR
NF19G9	SSR	1	TAIR
nga392	SSR	1	TAIR
SO392	SSR	1	TAIR
ciw1	SSR	1	TAIR
nga128	SSR	1	TAIR
nga111	SSR	1	TAIR
nga692	SSR	1	TAIR
nga114	SSR	2	TAIR
PLS5	SSR	2	TAIR
nga361	SSR	2	TAIR
t32f646516	SSR	2	(O'Neill *et al.*, 2008)[1)]
BIO2	SSR	2	TAIR
nga172	SSR	3	TAIR
nga126	SSR	3	TAIR
nga162	SSR	3	TAIR
ciw11	SSR	3	TAIR
F1P2-TGF	SSR	3	TAIR
ciw27	SSR	3	TAIR
nga6	SSR	3	TAIR
nga8	SSR	4	TAIR
nga1111	SSR	4	TAIR
DET1.2	SSR	4	TAIR
ciw6	SSR	4	TAIR
ciw7	SSR	4	TAIR
nga1139	SSR	4	TAIR
nga1107	SSR	4	TAIR
ciw15	SSR	5	TAIR
nga249	SSR	5	TAIR
CA72	SSR	5	TAIR
nga151	SSR	5	TAIR
nga139	SSR	5	TAIR
SO262	SSR	5	TAIR
SO191	SSR	5	TAIR
nga129	SSR	5	TAIR
ciw10	SSR	5	TAIR
MBK5	SSR	5	TAIR

Marker Name	Marker Type	Chr.	Source
EH1-1	SCAR	1	(Häffner *et al.*, 2010)[2)]
EH1-2	SCAR	1	Häffner *et al.* 2010
EH1-3	SCAR	1	Häffner *et al.* 2010
EH2-1	SCAR	2	Häffner *et al.* 2010
EH2-3a	SCAR	2	Häffner *et al.* 2010
EH2-4	SCAR	2	Häffner *et al.* 2010
EH2-6	SCAR	2	See Table IIA
EH2-7	SCAR	2	See Table IIA
EH2-10	SCAR	2	See Table IIA
EH2-12	SCAR	2	See Table IIA
EH3-1	SCAR	3	Häffner *et al.* 2010
EH3-3	SCAR	3	Häffner *et al.* 2010
EH3-5	SCAR	3	See Table S2
EH4-1	SCAR	4	Häffner *et al.* 2010
EH4-2	SCAR	4	See Table IIA
EH5-4	SCAR	5	See Table IIA
EH5-5	SCAR	5	See Table IIA
EH5-7	SCAR	5	Häffner *et al.* 2010
EH5-8	SCAR	5	See Table IIA
EH5-9	SCAR	5	Häffner *et al.* 2010
EH5-10	SCAR	5	See Table IIA
BLC1-5	CAPS	1	See Table IIB
BLC1-6	CAPS	1	See Table IIB
BLC1-21	CAPS	1	See Table IIB
BLC1-26	CAPS	1	See Table IIB
BLC1-28	CAPS	1	See Table IIB
BLC1-34	CAPS	1	See Table IIB
BLC2-1	CAPS	2	See Table IIB
BLC2-2	CAPS	2	See Table IIB
BLC2-5	CAPS	2	See Table IIB
BLC2-7	CAPS	2	See Table IIB
BLC2-9	CAPS	2	See Table IIB
BLC2-17	CAPS	2	See Table IIB
BLC4-22	CAPS	4	See Table IIB

[1)] O'Neill CM, Morgan C, Kirby J, Tschoep H, Deng PX, Brennan M, Rosas U, Fraser F, Hall C, Gill S *et al*: **Six new recombinant inbred populations for the study of quantitative traits in *Arabidopsis thaliana***. *Theor Appl Genet* 2008, **116**:623-634.

[2)] Häffner E, Karlovsky P, Diederichsen E: **Genetic and environmental control of the *Verticillium* syndrome in *Arabidopsis thaliana***. *BMC Plant Biol* 2010, **10**:235.

Table II: Technical information on new markers for the (Bur×L*er*) RIL Population

A. SCAR-Markers

			Tm		T_m (°C)	T_a (°C)	t_e (s)	Fragment Bur (bp)	Fragment L*er*(bp)
EH2-6		GTGTCTCAAAAACTTGGATGTC	62	TCGAGTAGGTCAAGCCAACG	62	55	30	183	173
EH2-7		CTGTGGTCGAACAGTCGAAG	62	CATCGTCACACACAGGCGGG	66	55	30	278	269
EH2-10		CTCTTCTTCGTCATACCATCC	62	TTTCTTACAGCACTTCTACTTT	58	55	30	214	203
EH2-12		TAGTGTTGTTGGGGTCGTC	58	GGATGAGAATTTCCGGGATTTT	62	55	30	238	226
EH3-5		GTGTTGTTTCGTGCTTCCG	58	CTCGTAGTGCATCCGACTCC	64	55	30	202	193
EH4-2		AAGTGTGGGCTAGCTGATAA	58	AGCCAATAGATGGCTACTCG	60	55	30	163	173
EH5-4		GCTCGCCGTAAAGCTGAAGC	64	GATAGCTGCCGTCACCAAAGACC	72	55	30	184	195
EH5-5		CTCTGTGTTCTAGTTCCCCA	60	CCACATCACCAGGACGCC	60	55	30	282	302
EH5-8		TCACGATCTGTCTTCTCCGG	62	GGATACTGTCCAAGCAATTCCAC	68	55	30	292	351
EH5-10		CGCAGGAGTTTTCTCTCCAA	60	CCTTCGATTCCACTCTTCTC	60	55	30	228	216

B. CAPS-Markers

Marker Name	Based on Polymorphism	Forward Primer	T_m (°C)	Reverse Primer	T_m (°C)	T_a (°C)	t_e (s)	Restr. Enzyme	Fragments Bur (bp)	Fragments Ler(bp)
BLC1-5	Ossowski_33803	GACAACCTCCAGATCGGTGT	62	ATGTTCCTGTAGAACAGCCGG	49.2	55	30	BsmFI	187, 44	231
BLC1-6	Ossowski_41322	CTTCTAACTACCAATGATCTC	43.4	GTGTGCCACGCAGATGACTG	64	55	40	AluI	250	169, 81
BLC1-21	Ossowski_237400	GCACATGCAGTACACCAACC	62	ATGACAGAAATAGAGCGAGC	58	55	40	None/LP	>236	236
BLC1-26	Ossowski_242350	GCCGTTGCAGTCACTTGACTC	51.2	GGATATATGGATCCAGAGTAC	45.3	50	40	MnlI	242	126, 116
BLC1-28	Ossowski_1182884	GGTCTTGGATTAGCTTAGGC	60	AATAGCGAGGAGTTTCCAGT	58	55	30	NdeI	214	194,21
BLC1-34	Ossowski_126257	TACGTCTATGAGGATACGTC	58	CTCCATGTGGTCAGGCGGTGG	55	49	40	None/LP	<217	217
BLC2-1	Ossowski_391600	CTGTTGTTTCTTACGTCACTG	45.3	CTGTATGTTCCCCATGATTCTTAC	48.9	55	40	Tru1I	345, 57	402
BLC2-2	Ossowski_1194744	GGCTGTCCATTTGCATCTTAC	47.3	CTCACGAAAAGTCCATGTTGTCTAC	50.9	55	40	BseRI	208, 89	297
BLC2-5	BKN000004572	GCATAGAAGCGATATGAGAATA	44.1	CATCTACTGGATTCCGGCTGG	51.2	55	40	AflIII	400, 83	483
BLC2-7	Ossowski_393125	GCTCTTTACTCCGATCATCG	60	GAGGTATATCGTGAACCAGTTT	62	55	40	HincII	179, 106	286
BLC2-9	Ossowski_400251	AGTCATTAAGTTAGGTAATTT	37.5	TGGTAGTTTATGTACAAGCTA	41.4	50	40	None/LP	265	>265
BLC2-17	Ossowski_403057	GAGTAGTTAACTCTATCACGC	45.3	TACTTAATTGAGACAAGAGG	54	55	40	AluI	229	183, 45
BLC4-22	Ossowski_780572	CAATCCCTTGAAGTTCTGAAAC	46	CTGTGGCACCGGATTCAAG	60	55	40	TaqI	298	196, 102

Abbreviations: T_m = melting temperature, T_a = annealing temperature, t_e = elongation time, bp = base pairs, LP = length polymorphism.