

Supplementary Tables

Supplementary Table 1 Pa1 infection scores for the initial F1 progeny population. Scores for both screen 1 and 2 have been combined for ease of comparison. An average (column 8) have been calculated for each plant, this is an average over both screenings. Plants highlighted in pink are those taken forward for use in the susceptible bulk. Plants highlighted green were taken forward and used for the resistant bulk. Plants highlighted in blue were removed from further analysis as their phenotype could not be successfully confirmed, as scores differed between the two screenings.

Plant	Screen 1			Screen 2			Average
	Count 1	Count 2	Count 3	Count 1	Count 2	Count 3	
2				3	7	1	3.67
3	19	1	17				12.33
4	2	4	2	0	0		1.6
5	9	8	11	0	0	5	5.5
6	11	40	1	27	18	23	20
7				30	54	18	34
8	18	20	3	17	12	42	18.67
9				0	7	1	2.67
11	0	0	0	0	1	0	0.17
14				25	63	29	39
15				0	1	1	0.67
16				49	13	2	21.33
17				38	18	30	28.67
18	3	1	0	3	0	2	1.5
19				12	0	10	7.33
20				5	16	6	9
21				5	0	0	1.67
22				11	16	30	19
23				24	1	29	18
24				15	16	0	10.33
25	12	25	8	6	19		14
26	1	7	1	0	2	7	3
27	0	0	0	3	1		0.8
28				45	49	39	44.33
29				2	5	4	3.67
30				6	7	2	5

31				1	36	0	12.33
32				1	2		1.5
33				9	8	9	8.67
34					3		3
36		0	0	19	7		6.5
37				1	7	2	3.33
38	0	0					0
40				48	74	52	58
41				20	18	3	13.67
42	1	0	5	17	13	14	8.33
44				3	0	3	2
45				73	68	30	57
46	0		1	2	2	1	1.2
47	47	2	24	51	34	29	31.17
48				20	22	11	17.67
49	0		1	0	5	1	1.4
50	0		0	4	7	24	7
51	0	0		0	2	0	0.4
52	0	0	0	3	3	1	1.17
53	0	3	0	26	12	6	7.83
54	0	0		1	0		0.25
55				33	28	33	31.33
56	4	0	0	1	1	6	2
57				11	34	39	28
58	2	4		4	9	0	3.8
59	28	16		7	7		14.5
60				0	0	3	1
61	2	1	0	0	2	0	0.83
63				17	13	14	14.67
64				0	0	3	1
65				30	20	24	24.67
66				0	1	0	0.33
69				2	0		1
70				29	36	0	21.67

71				3	5	0	2.67
72				24	35	19	26
73	0	2	6	11	12	9	6.67
74	5	0		2	3	1	2.2
75	50	12	45		0		26.75
76	0		0	22	17	9	9.6
77	0	2	0	8	6	2	3
78				37	8	10	18.33
80				0	0	0	0
81				7	24	0	10.33
83				0		0	0
84				0	0	1	0.33
85				26	14	25	21.67
86				2	3	0	1.67
87				0	0	0	0
88				1	1	4	2
89				14	13	1	9.33
90				4	9	0	4.33
91	1	0		0	0	0	0.2
92	23	8		8	8	2	9.8
93	16	1	23	19	27	21	17.83
94	14	6	16	8	12	13	11.5
96	2	6		2	2	1	2.6
97				15	8	16	13
98				6	14	8	9.33
99	29		11	15	0		13.75
100	33	0	13	27	36	30	23.17
101				15	94	8	39
102	0		0	2	1	0	0.6
103	0	17	1	4	5	0	4.5
104	4	3	13	20	15	33	14.67
105		2	4	4	24	12	9.2
106	14	25	0	8	3	29	13.17
107				0	0	1	0.33

108				0	0	0	0
109	19	2	7	2	0	0	5
110				0	0	0	0
111				18	4	4	8.67
112	2	0	0	1		0	0.6
113	22		22	21	17	19	20.2
114	0		0	0	15	6	4.2
115				15	22	14	17.0
116	15	0	23	10	2	2	8.67
117				5	0	1	2.0
118				43	8	17	22.67
119				5	8	21	11.33
120				1	1	1	1
121				7	0		3.5
122				27	1	14	14
124				0	0	20	6.67
125				4	0	1	1.67
126				2	4	18	8
127				0	1	2	1
129				3	5	1	3
130				1	0	1	0.67
131				10	38	18	22
132				0	0	0	0
133	11	19					15
134	5	0	0	9	0	1	2.5
135	46	23	7	22	43	38	29.83
137				7	62	13	27.33
138	0	4	1	1	0	0	1
139	0	3		0	1	1	1
140	1	4	4	3	5	1	3
141				15	5	22	14
142				8	4	0	4
143				4	50	49	34.33
144				16	3		9.5

145				3	0	2	1.67
146				0	1	2	1
147	27	0	21	42	9	15	19
148				12	41	0	17.67
149				8	3	0	3.67
150	16	18		9	15	2	12
151				5	13	5	7.67
152				0	0	0	0
153				23	5	3	10.33
154				1			1
155				0	0	1	0.33
156				5	4	6	5
157				0	0	1	0.33
158				0	0	1	0.33
163	46	8	0				18
165	16	0	7				7.67
167				23	0	3	8.67
168	45	9	10	44	33	12	25.50
170				4	5	2	3.67
171				2	7	8	5.67
173				0	0	3	1
175	15	13		4	10	0	8.4
176	13	2	1	5	10	27	9.67
179				19	7	14	13.33
180				0	0	0	0
181				1	1	0	0.67
182	5	3	6	10		14	7.6
185				3	0	3	2
186				44	6	6	18.67
187	13	19	1	17	0	0	8.33
188				34	7	4	15
190				15	16		15.5
191				2	1	3	2
Picasso 1	6	0	8	9	64	2	14.8

Picasso 2	27	3	21	20	56	19	24.3
Picasso 3	32			20	45	11	27
Picasso 4	10	2		2	18	38	14
P55/7 1	2	0	0	0		0	0.4
P55/7 2	1		0	1	1	0	0.6
P55/7 3	4	2		1	1	0	1.6
P55/7 4	0	0		0	0	0	0

Supplementary Table 2 Pa1 screen scores for recombinant progeny and selected resistant and susceptible controls. Each progeny clone has four replicates, blank cells are where plants failed to root and so no score could be taken. An average was taken across the successful replicates.

Plant	Count 1	Count 2	Count 3	Count 4	Average
2	52	66	30		49.3
5	0	0	0	1	0.25
9	0	14	21		11.67
12	16	72	38	108	58.5
34	1	0			0.5
41	0	35	23	18	19
61	3	0	17	1	5.25
64	48	52	87		62.3
74	1	1	0	2	1
84	0	0	0	3	0.75
90	18	13	1	8	10
92	83	4	45		44
102	34	20	62	57	43.25
104	7	14	24	10	13.75
113	2	7	5	6	5
131	40	8	8	99	38.75
133	1	2	5	0	2
137	3	1	0	2	1.5
143	108	124	66		99.3
163	44	57	59	23	45.75
165	29	53	4	30	29

169	29	19	10	16	18.5
170	14	10	6	18	12
175	8	64	118	61	62.75
176	0	0	3	2	1.25
190	2	16	2	8	7
193	49	14	3	21	21.75
200	5	5	7	11	7
203	2	0	4	5	2.75
206	30	14	95		46.3
223	0	33			16.5
228	12	7	10	20	12.25
233	30	19	18	32	24.75
261	2	4	4	20	7.5
264	2	3	0	1	1.5
278	10	0	0	0	2.5
289	52	50	23	51	44
292	4	17	34	53	27
312	2	0	0	1	0.75
315	19				19
328	15	26	17	6	16
331	74	85	2		53.67
336	8	5	4	0	4.25
359	48	66	41	15	42.5
362	22	30	39		30.3
372	0	0	0	0	0.00
374	0	0	2	4	1.5
389	18	77	35	58	47
390	81	73	55	115	81
391	190	65	78		111
392	3	1	10	2	4
404	62	79	60	134	83.75
412	24	77	57	49	51.75
430	3	2	19	38	15.5
445	4	3	3	2	3

447	9	30	18	29	21.5
456	37	56	74	45	53
464	103	79	92	90	91
466	0	0	2	0	0.5
468	57	25	73	14	42.25
473	3	1	0	0	1
481	12	35	18	18	20.75
485	6	3	0	0	2.25
505	40	97	135	46	79.5
522	0	0	0		0
545	2	50	94		48.67
559	1	0	0	0	0.25
568	33	26	29	43	32.75
563	33	30	17	62	35.5
575	15	17	14	19	16.25
584	18	3	9	23	13.25
604	2	8			5
611	17	11	26		18
Picasso	41	26	46	36	37.25
P55/7	0	2	0	1	0.75

