

Supplementary Materials:

Table S1. Overview of the resistance tests carried out in the complete and partial screening. x represents complete runs (control, Foxy II and Foxy III with 10 seedlings each). Deviations are defined more precisely.

Genotype	Resistance test		
	complete screening	partial screening	
<i>A. aethiopicus</i>	wild relative	x	x
<i>A. amarus</i>	wild relative	x	x
<i>A. densiflorus</i>	wild relative	control + Foxy III	-
<i>A. stipularis</i>	wild relative	control + Foxy III	-
CGN25609	landraces	x	-
CGN25611	landraces	(Foxy III only 9 plants)	-
Argenteuil	cultivar	x	x
Grolim	cultivar	x	-
Ivancicky	cultivar	x	x
Leistungsauslese	cultivar	x	control + Foxy III
Ramada	cultivar	x	x
Ramires	cultivar	x	x
Ravel	cultivar	x	x
Ruhm von Braunschweig	cultivar	(control only 6 plants)	-
Schwertzinger Meisterschuss	cultivar	x	x
Start	cultivar	x	x
Thielim	cultivar	x	x

Table S2. Resistance test against *Fusarium oxysporum* isolates Foxy II and Foxy III, 14 dpi. Comparison of the percentage of diseased tissue measured in complete and partial resistance screening for *A. amarus*, *A. aethiopicus*, *A. officinalis* cv. Ravel, and *A. officinalis* cv. Start. Asterisks behind the average and SE show significant differences between the complete and partial resistance screening ($p < 0.05$). Δ indicates significance between control and Foxy II or Foxy III for each genotype ($p < 0.05$).

Genotype	control		Foxy II		Foxy III	
	complete screening	partial screening	complete screening	partial screening	complete screening	partial screening
1	9.37 ± 0.69	10.08 ± 0.98	25.76 ± 1.00* Δ	17.78 ± 1.41* Δ	25.98 ± 2.34 Δ	31.69 ± 2.62 Δ
2	26.34 ± 1.34	29.05 ± 1.44	24.56 ± 1.30*	30.22 ± 1.69* Δ	26.87 ± 0.96	31.86 ± 2.18 Δ
13	15.12 ± 0.94*	13.19 ± 1.09*	28.99 ± 1.95* Δ	23.03 ± 1.83* Δ	21.92 ± 1.96 Δ	22.79 ± 1.80 Δ
16	14.1 ± 1.13	15.93 ± 1.05	20.04 ± 1.57 Δ	21.97 ± 1.35 Δ	39.56 ± 3.65 Δ	30.15 ± 2.72 Δ

Table S3. SSR primer used for the distance analysis.

SSR marker	Forward primer ¹	Reverse primer	Fragment size range (bp) ²
asp c45	GGAGGAATGCCGACAAGG	TTCTTCAATCGATCTCCTGG	105-116
asp c957	TGATGAACCACTCAATACTTCG	TGTGTCTTGTGTTGTTG	117-134
asp c1319	TGCTCAAGGCATGTGAAG	ACTGATTCTCGTTGCAGG	154-182
asp c1401	AATGGTTCCAATGGAGAAG	GCCTGCAGTGTACAGTGT	161-175
asp c1505	ATCCCACGCACTGGTAAATC	AGGATATGGTATGGCGGTG	99-156
asp c1779	CTGTGACATTAGCACAACTTAGCA	CAACCTTCCTCGAACGTA	163-180
asp c2370	AGCCTGCCATAATCCTTCC	TCCCTCTCCACATCTCTCG	167-184
asp c3803	TAAACTGATGGTGAGGCTCG	TTGTAGGCAGGCTATT	130-158
asp c4593	TCCTCCTTCGACACCTTCAG	GACTCCGGAATCGAGAAGC	149-167
asp c5587	TTTGTGGAGGGAGAGGGAG	CCACAAACAACTTGCATCC	121-137
asp c6290	CGCGATAAATTGAAAGACC	ACTCAAGAAGCCGGAGGAAT	108-140
asp c6470	AGAAAAGTCACGGGCCTCC	TATCCTCCTCCTGATTGCA	207-234
asp c8280	CAATCTCTCCCACAAGCTCA	GATTGCTGGATTGGTGAGG	121-169
asp c9020	GCAGCCAACCCCTAGAAACAA	TATTATGAGCCTGTCGCTGG	94-140
asp c9810	AGGCAGAAAGCTGAAGAGGC	TTCTTGCTCTGTTCCAGC	114-150
asp c11979	CAGAAGGTGTATTGTTGCC	CCTCTCATCTGGCTTCA	174-204
asp c12796	TGAATCGGGATCAAATTAGAGG	CGTTATCCTCACGACCCAAT	110-133
asp c12877	GAACGCATAGTACATGGCAAA	TTGATATCGATCTGCTCGC	98-133
asp c14231	CCACAGGATGCAAGTCCTC	AGAGAGACTGGGCTATTG	129-157
asp c15627	CTCTCATTGTTGAAACGAGC	TGCTGCGATGCTAGAGAAGA	105-125
asp c17381	AGGGCTCCAGTATCCAGTC	TTCATTGAACATGGCATTG	151-171
asp c17476	AAGCCAGCCACAAGAACCTA	AAGAGCCTTGGCTAGCGTT	159-198
asp c21312	CCTCCAGTTCCATCAGAAG	GGCTATAACCGTGGAGGAGG	122-135
asp c22306	GATCATCATCTGCGCATTG	AGAGGAAGCACGAGGAAGAA	164-171
asp c22357	CAATCGACGGAGGAGAAAGA	AAGGCTTGTCTTCATAGCG	113-140

¹ All forward primer were 5' elongated by the 19 bp M13 sequence CACGACGTTGTAAAACGAC.

² Fragment size range in the tested material.

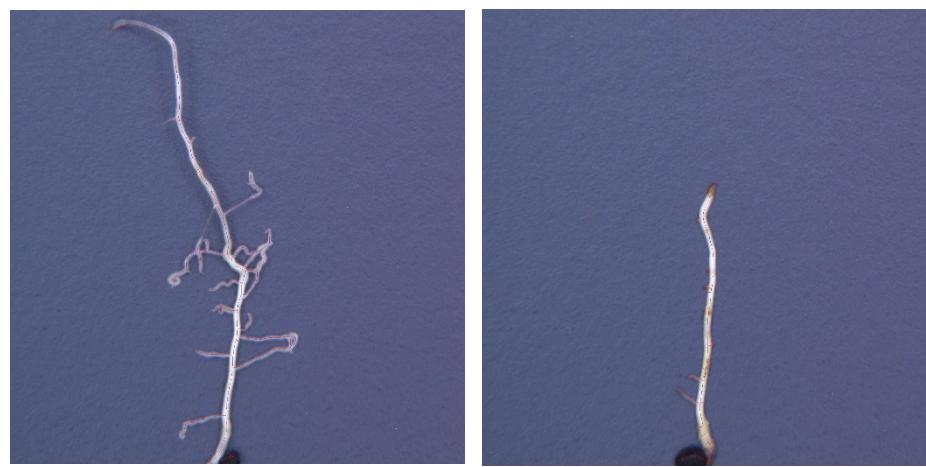


Figure S1. Analysis of root length evaluated with LemnaTec Scanalyzer PL. *A. officinalis* cv. Grolim 14 dpi. (a) Control; (b) Foxy III.