

Table S1. The analyses of pathogenicity of strains

Catalogue no. of strain	Seedling length, mm	Necroses, score	<i>Fusarium sp.</i>
MFG103100	83,3	0,6	<i>F. anguioides</i>
MFG109902	69,4	1,2	<i>F. anguioides</i>
MFG112804	291,9	0,1	<i>F. anguioides</i>
MFG115014	45,2	1,4	<i>F. anguioides</i>
MFG114003	65,3	0,2	<i>F. anguioides</i>
MFG119913	69,8	0,7	<i>F. anguioides</i>
MFG118902	67,8	0,6	<i>F. anguioides</i>
MFG115015	45,2	1,4	<i>F. anguioides</i>
MFG108904	87,8	0,2	<i>F. anguioides</i>
The average±SD^a	91,7±24,0	0,7±0,16	
MFG118702	76,2	1	<i>F. avenaceum</i>
MFG58640	41,5	1,3	<i>F. avenaceum</i>
MFG168800	33,1	2,1	<i>F. avenaceum</i>
The average±SD	50,3±10,8	1,5±0,27	
MFG58654	28,9	1,8	<i>F. arthrosporioides</i>
BBA64215	57,2	1,2	<i>F. arthrosporioides,</i>
MFG116504	26	2,6	<i>F. arthrosporioides</i>
The average±SD	37,4±0,9	1,8±0,3	

^aSD – standard deviation

Table S2. ISSR data matrix:

26 39

an35	111001001100101001000001101001110101110
an36	111001001100101011010001001001001101111
an37	100111001100111111000010001001110101110
an38	110001001100101011000001101001101101111
an39	000111001110100101000011001001101101111
ar40	110001001100101011100111101011101111111
an41	110001001100110010001000001100101101111
an42	100101001100101011000111101011110111111
an43	111001011110101001000111001011001101111
an44	110001001100101011000001101001100111111
an45	000111001100100101000011001001001101111
an46	100001101100101001100011101001101101111
an47	100001011100110001001110001010001111111
av48	111001001100111101001010001100000101111
av49	100001001100111011001010001100101111110
av50	111001001100111001001010001100001101111
av51	101001011110100001110111001011101111111
av52	111001001100101101011001001100101101111
av53	110001001100101101011010011000101101111
av54	111001101101111001001010001100101101111
av55	110001001110101011010001001001101111111
av56	100001001101111001011001001100101101111
av57	100001001100110101001010011100101111111
ar1	00000110?????0001001000001001001100011
an2	10000100110110010100000011100001100010
an3	000001100100001001001000101000010110000

Table S3. Primers used in the present work

ISSR primers:

B (ag)₈ tg

C (ag)₈ cg

D (ag)₈

E ctc (gt)₈

F ct (ga)₈

G gag (caa)₅

JIA primers (300 bp product, specific for *F. avenaceum*/*F. arthrosporioides*):

JIAf GCTAATTCTTAACTTACTAGGGGCC

JIAr CTGTAATAGGTTATTTACATGGGCG

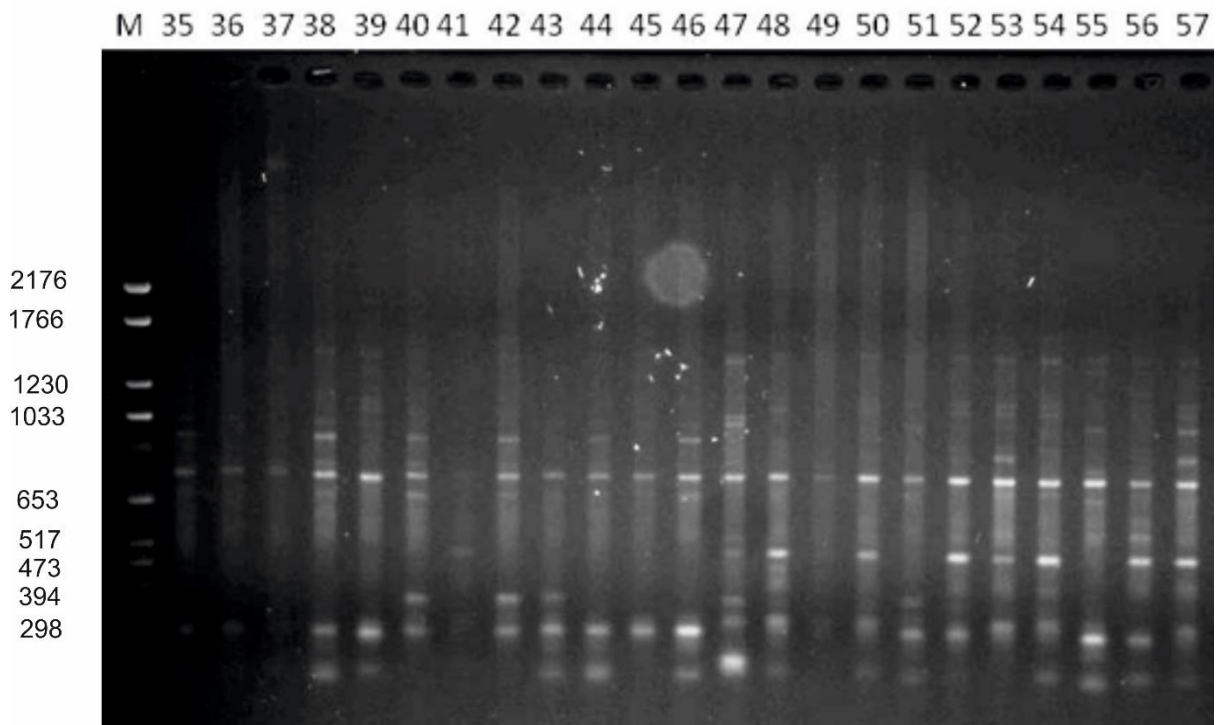
Primers for amplification and sequencing partial beta-tubulin sequences:

T1 AACATGCGTGAGATTGTAAGT

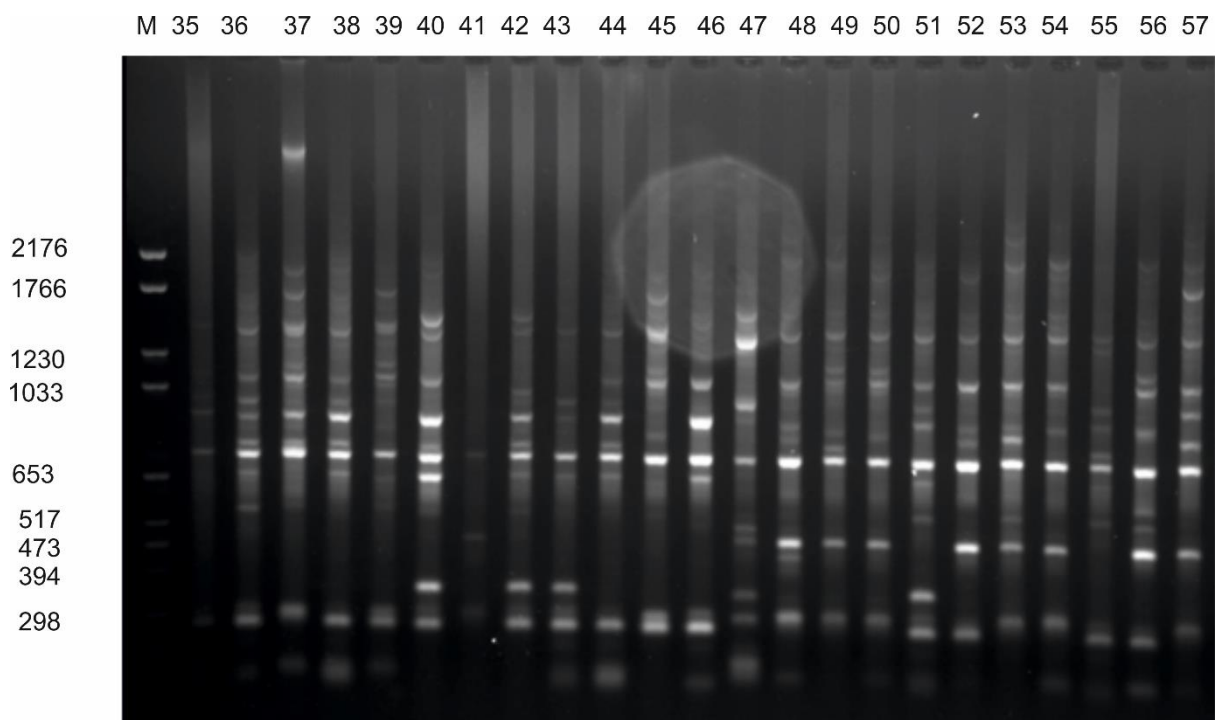
T22 TCTGGATGTTGTTGGAATC

tub-conrev T22 TGACCGAAAACGAAGTTGTC

Figure S1. **Photos of gels** with products of amplification of DNA with ISSR primers



ISSR products with primer E in an, av and ar strains 35-57 as compared to molecular weight standard (M)



ISSR products with primer D in an, av and ar strains 35-57 as compared to molecular weight standard (M)

Figure S2. **PENNY consensus tree of ISSR data.** 24 most parsimonious trees with 112 steps were found.

