

**Table S2.** Primers for the 29 informative microsatellite loci in *Fusarium virguliforme*.

Loci <sup>a</sup>	Primer name	Primer sequence <sup>b</sup>
SSR1	FvSSR1F	<u>TGTAAAACGACGGCCAGT</u> CGTCGTTGGCATTGTCCTTG
	FvSSR1R	GGCCGTATCCTAGGAGGTGA
SSR2	FvSSR2F	<u>TGTAAAACGACGGCCAGT</u> ATTTGACTTGCTCGTTGCG
	FvSSR2R	TCCATACAACAGCCACGGAC
SSR3	FvSSR3F	<u>TGTAAAACGACGGCCAGT</u> CTGGTTGTGTGTGCATCGTG
	FvSSR3R	GCCAGCCCCGAATAAGCAAAG
SSR4	FvSSR4F	<u>TGTAAAACGACGGCCAGT</u> GAAGAGACTGGGGCCGTAAG
	FvSSR4R	GGGTCAACTTGGGGAAGGAG
SSR5*	FvSSR5F	<u>TGTAAAACGACGGCCAGT</u> CTGAGCTGTCTGTCTGTCTCGG
	FvSSR5R	CAGCTGCTGTCTGTCTGTCTGTCA
SSR6*	FvSSR6F	<u>TGTAAAACGACGGCCAGT</u> TGTGTGTTGGAGCTGAGGAC
	FvSSR6R	AAAGGATCGTCATCGTCCGG
SSR7*	FvSSR7F	<u>TGTAAAACGACGGCCAGT</u> GCTTGGAACTGCAGCGAAT
	FvSSR7R	TCACCGACAATCGATTGCCT
SSR8	FvSSR8F	<u>TGTAAAACGACGGCCAGT</u> TTTCGGTATCCTTACGGCCC
	FvSSR8R	AGAAGAGGATGCCGATGCTG
SSR9*	FvSSR9F	<u>TGTAAAACGACGGCCAGT</u> GTGATGAGACAGGCCAAGCT
	FvSSR9R	TTGTTCCCTCTGACACTCGC
SSR10*	FvSSR10F	<u>TGTAAAACGACGGCCAGT</u> TGTTTCATGCCTTGCGTGTG
	FvSSR10R	GCTGGCCAGTCGGATACAAT
SSR11*	FvSSR11F	<u>TGTAAAACGACGGCCAGT</u> TATCATCCAGGGGCTGCAAC
	FvSSR11R	CAGGCGGTTTTGTTTTCGGT
SSR12*	FvSSR12F	<u>TGTAAAACGACGGCCAGT</u> GACAGGCTACAGGGGAACAC
	FvSSR12R	ACAGCCAACATCCAGACTCG
SSR13*	FvSSR13F	<u>TGTAAAACGACGGCCAGT</u> CGGGCGAGTCTTCTTCTCTC
	FvSSR13R	GACCCATGAAGGCGTTGGTA
SSR14	FvSSR14F	<u>TGTAAAACGACGGCCAGT</u> CATCTCTCCCCACACACCAC
	FvSSR14R	CTCTTACTCCTTGAGGCCGG
SSR15*	FvSSR15F	<u>TGTAAAACGACGGCCAGT</u> GCTTAGGAGAAGTGGCCCTC
	FvSSR15R	CGCAGAGATAACCGAACCCA
SSR16	FvSSR16F	<u>TGTAAAACGACGGCCAGT</u> CACGCTCACTCCGAGTTTCT
	FvSSR16R	GAGGCAAGAGCGAGCAAAAG
SSR17*	FvSSR17F	<u>TGTAAAACGACGGCCAGT</u> CCTCTCACCAGTGTAGCTGC
	FvSSR17R	ACTAGAACCGTTCGTCGTCG
SSR18	FvSSR18F	<u>TGTAAAACGACGGCCAGT</u> ACCTCGTTGAGCAGTTCTGG
	FvSSR18R	CCCGTCGTTCTCATCGTGAT
SSR19	FvSSR19F	<u>TGTAAAACGACGGCCAGT</u> AGGACTCTCTACTAAAGAAAAAGGT
	FvSSR19R	TCATAGTCAAACGGGCGTCA
SSR20*	FvSSR20F	<u>TGTAAAACGACGGCCAGT</u> TTTGACGCATGGGACCAATGT
	FvSSR20R	CCTCGGCAGAAATGACAGGT

SSR21*	FvSSR21F	<u>TGTAAAACGACGGCCAGT</u> ACCTCACAACATCCACACACT
	FvSSR21R	GTGCGAGGTTTGCTTGAGTG
SSR22*	FvSSR22F	<u>TGTAAAACGACGGCCAGT</u> CTTGCGGCTCCTCCTTCTTA
	FvSSR22R	GGGATTCTCCAATGGCGGAT
SSR23*	FvSSR23F	<u>TGTAAAACGACGGCCAGT</u> TGGCTTCATCAACAGCTCCA
	FvSSR23R	GGGTCGTCTGGTGTTGAGAA
SSR24	FvSSR24F	<u>TGTAAAACGACGGCCAGT</u> TCTTTGGTGCCGAGGGAATC
	FvSSR24R	TCGAAGCAACCATTACGCCT
SSR25	FvSSR25F	<u>TGTAAAACGACGGCCAGT</u> GGTCCCAACCCCAAAGTAGG
	FvSSR25R	AAGGTGATGCGGGATGGATC
SSR26	FvSSR26F	<u>TGTAAAACGACGGCCAGT</u> CCTACAAAGGCTATACTGGGAAT
	FvSSR26R	TGGCACGGACGAAAATCAGA
SSR27	FvSSR27F	<u>TGTAAAACGACGGCCAGT</u> AGCCTAAATAGCTAGAGTAAAAGGA
	FvSSR27R	TGCTTACCGCTGAGATCCTT
SSR28*	FvSSR28F	<u>TGTAAAACGACGGCCAGT</u> GATTGGGCTGCTTTAAAAGACT
	FvSSR28R	AAAAGCTAGCACCATAACCCT
SSR29	FvSSR29F	<u>TGTAAAACGACGGCCAGT</u> GGAATAAAGAGGATTAGGGCCCT
	FvSSR29R	AGAACCCACTATATAGCCCGA
	M13	5'FAM-TGTAAAACGACGGCCAGT

<sup>a</sup> Loci labeled with \* were used in the population study.

<sup>b</sup> M13 sequence was appended to the 5' end of the forward primer.

**Table S3:** ID matching of microsatellite loci identified in our study and those in a previous study [15].

ID in this study	ID in Wang and Chilvers 2016
SSR1	48
SSR2	38
SSR4	43
SSR6	4
SSR13	93
SSR15	59
SSR20	80
SSR21	83
SSR23	10