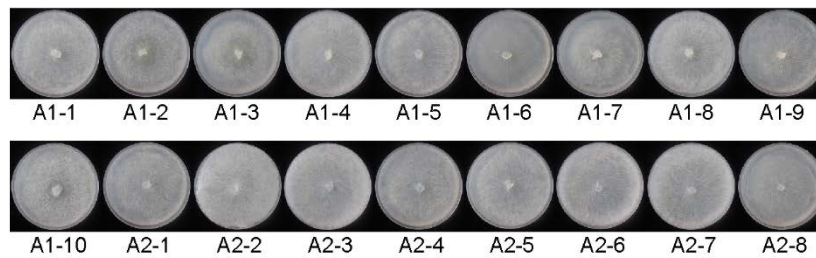
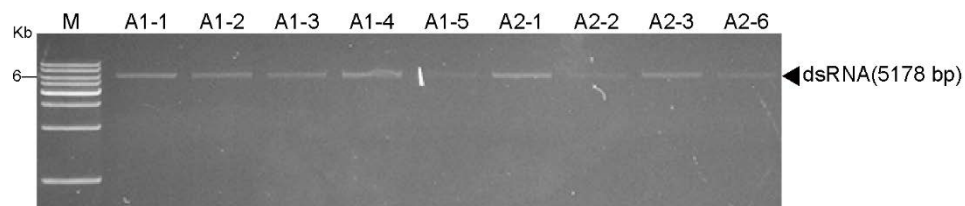


a

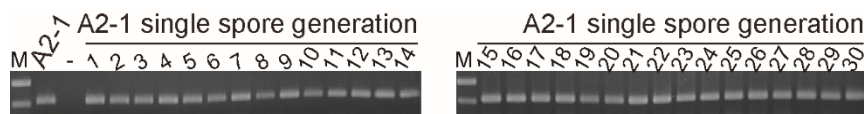


b



Supplementary Fig S1 Phenotype and dsRNA detection of fungal strains

Strains isolated from rotten were cultured in PDA for 24 h to be photographed. DsRNAs from the strains were extracted to detect mycovirus. DsRNA samples were separated on 1% agarose gel in 1 x TAE buffer and stained with ethidium bromide (EtBr). The black arrowhead indicates the dsRNA element of RsTV1. M, DNA Maker.



Supplementary Fig S2 Virus detection of single conidial strains by RT-PCR

The single conidial strains were isolated from *R. stolonifer* strain A2-1 via single conidial isolation. PCR samples were separated on 1.3% agarose gel in 1 x TAE buffer and stained with EtBr. M, DNA Maker; A2-1, *R. stolonifer* strain A2-1; -, water control; number, single conidial strains.

Supplementary Table S1

A list of primers used in this study

Primer	Primer sequences (5' - 3')
ITS1	TCCGTAGGTGAACCTGCGG
ITS4	TCCTCCGCTTATTGATATGC
PC2	CCGAATTCCCGGGATCC
RsTV1 247F	TAGAAGGAGGGTTCCGTTGAT
RsTV1 238R	GTCGCCACGGATTTGTCTC
RsTV1 501R	CTTACGGTTGGAGATGTCAGTG
RsTV1 774R	CTTGAAAGCATTGCCGTGAC
RsTV1 4422F	GGTTATCAAGACTTCAGCCGC
RS 18S-F	GTAGTCATATGCTTGTCTC
RS 18S-R	ATTCCCCGTTACCCGTTG
M13 F	CAGGAAACAGCTATGACC
M13 R	TGTAAAACGACGGCCAGT

Supplementary Table S2

Virus RdRp amino sequences used for pairwise alignment and phylogenetic tree

Family	Genus	Virus name	Abbreviation	Protein_ID
<i>Totiviridae</i>	unclassified <i>Totiviridae</i>	Umbelopsis ramanniana virus 2	UrV2	VFI65724.1
		Thelebolus microsporus totivirus 1	TmTV1	AZT88643.1
		Tolypocladium ophioglossoides totivirus 1	ToTV1	AZT88645.1
		XiangYun toti-like virus 1	XtLV1	UUG74250.1
	<i>Victorivirus</i>	Beauveria bassiana victorivirus NZL/1980	BbVV-NZL/1980	YP_009032633.1
		Corynespora cassiicola victorivirus 1	CcVV1	UIB81489.1
		Sclerotinia nivalis victorivirus 1	SnVV1	YP_009259368.1
		Neofusicoccum parvum victorivirus 3	NpVV3	UBZ25890.1
		Aspergillus foetidus slow virus 1	AfSV1	YP_009508249.1
		Beauveria bassiana victorivirus 1	BbVV1	AMQ11131.1
		Bipolaris maydis victorivirus 1b	BmVV1b	QJW70221.1
		Nigrospora chinensis victorivirus 1	NcVV1	URX65568.1
		Helminthosporium victoriae virus 190S	HvV190S	NP_619670.2
	<i>Leishmaniavirus</i>	Leishmania RNA virus 1-1	LrV1-1	NP_041191.1
		Leishmania RNA virus 2-1	LrV2-1	NP_043465.1
	<i>Totivirus</i>	Xanthophyllomyces dendrorhous virus L1A	XdVL1A	YP_007697651.1
		Xanthophyllomyces dendrorhous virus L1B	XdVL1B	YP_009507835.1
		Scheffersomyces segobiensis virus L	SsVL	YP_009507831.1
		Tuber aestivum virus 1	TaV1	YP_009507833.1
		Saccharomyces cerevisiae virus L-BC (La)	ScVL-BC(La)	NP_042581.1
		Saccharomyces cerevisiae virus L-A	ScVL-A	NP_620495.1
	<i>Trichomonasvirus</i>	Trichomonas vaginalis virus 1	TvV1	YP_009162330.1
		Trichomonas vaginalis virus 2	TvV2	NP_624323.2

		Trichomonas vaginalis virus 3	TvV3	NP_659390.1
		Trichomonas vaginalis virus 4	TvV4	YP_009507836.1
	<i>Giardiavirus</i>	Giardia lamblia virus	GLV	NP_620070.1
	<i>Chrysoviridae</i>	<i>Chrysovirus</i>	Helminthosporium victoriae 145S virus	Hv145SV
				YP_052858.1

Supplementary Table S3

Virus CP amino sequences used for pairwise alignment and phylogenetic tree

Family	Genus	Virus name	Abbreviation	Protein_ID
<i>Totiviridae</i>	unclassified <i>Totiviridae</i>	Mucor hiemalis virus 1	MhV1	CAE9672661.1
		Thelebolus microsporus totivirus 1	TmTV1	AZT88642.1
		Tolypocladium ophioglossoides totivirus 1	ToTV1	AZT88644.1
	<i>Victorivirus</i>	Corynespora cassicola victorivirus 1	CcVV1	UIB81488.1
		Beauveria bassiana victorivirus NZL/1980	BbVV-NZL/1980	YP_009032632.1
		Sclerotinia nivalis victorivirus 1	SnVV1	YP_009259367.1
		Neofusicoccum parvum victorivirus 3	NpVV3	UBZ25889.1
		Aspergillus foetidus slow virus 1	AfSV1	YP_009508248.1
		Beauveria bassiana victorivirus 1	BbVV1	AMQ11130.1
		Bipolaris maydis victorivirus 1b	BmVV1b	QJW70220.1
		Nigrospora chinensis victorivirus 1	NcVV1	URX65567.1
		Helminthosporium victoriae virus 190S	HvV190S	NP_619669.2
	<i>Leishmanivirus</i>	Leishmania RNA virus 1-1	LrV1-1	NP_041190.1
		Leishmania RNA virus 2-1	LrV2-1	NP_043464.1
	<i>Totivirus</i>	Xanthophyllomyces dendrorhous virus L1A	XdVL1A	YP_007697650.1
		Xanthophyllomyces dendrorhous virus L1B	XdVL1B	YP_009507834.1
		Scheffersomyces segobiensis virus L	SsVL	YP_009507830.1

		Tuber aestivum virus 1	TaV1	YP_009507832.1
		Saccharomyces cerevisiae virus L-BC (La)	ScVL-BC(La)	NP_042580.1
		Saccharomyces cerevisiae virus L-A	ScVL-A	NP_620494.1
	<i>Trichomonasvirus</i>	Trichomonas vaginalis virus 1	TvV1	YP_009162331.1
		Trichomonas vaginalis virus 2	TvV2	NP_624322.1
		Trichomonas vaginalis virus 3	TvV3	NP_659389.1
		Trichomonas vaginalis virus 4	TvV4	YP_009507837.1
	<i>Giardiavirus</i>	Giardia lamblia virus	GLV	NP_619551.1
	<i>Chrysoviridae</i>	<i>Chrysovirus</i>		
		Helminthosporium victoriae 145S virus	Hv145SV	YP_052859.1