

Table S1: Primers and probes sequences of different fungal pathogens of Brassicaceae

Target	Primers and Probes	Nucleotide sequence
<i>Alternaria brassicicola</i>	Acola-sens	5' -GCA GCA TCT GCT GTT GGG G-3'
	Acola-reverse	5' -CAA GGT CAG CAT CCA TAA AGC C-3'
<i>Leptosphaeria maculans</i>	LmacF	5'-CTTGCCCACCAATTGGATCCCCTA-3'
	LmacR	5'-GCAAAATGTGCTGCGCTCCAGG-3'
<i>Hyaloperonospora parasitica</i>	PpITS2F	5'-AAGCGTGACGATACTAATTTG-3'
	PpITS2R	5'-TGAAGTGCGGCCGAAGCTT-3'.
<i>Plasmodiophora brassicae</i>	TC1F	5'-GTGGTCGAACTTCATTAAATTTGGGCTCTT-3'
	TC1R	5'-TTCACCTACGGAACGTATATGTGCATGTGA-3'
<i>Fusarium oxysporum f. sp. conglutinans</i>	Cong_PG1_F	5'-TGATCTTTCCAAGCTCAAGGATG-3'
	Cong_PG1_R	5'-GCTAATGACGATAGGATCAAAGTCG-3'
	Cong_PG1_Probe	5'-ACTTTTGCCACTACTGCTGA-3'
<i>Sclerotinia sclerotiorum</i>	SSaspr F	5'-TCAAACGCCAAAGCTGTATG-3'
	SSaspr R	5'-TCCTAGATCGACTCTCCTCCTTT-3'
<i>Erysiphe cruciferarum</i>	EryF	5'-TACAGAGTGCGAGGCTCAGTCG-3'
	EryR	5'-GGTCAACCTGTGATCCATGTGACTGG-3'
<i>Rhizoctonia solani</i>	GMRS3-R	5'AGT GTT ATG CTT GGT TCC ACT-3'
	GRSM4 _M	5'CGG TTC RTC TGC ATT TAC CTT-3'
	Probe: GRMP	FAM-CRG CGT GAT AAR TTA TCT ATC GC
<i>Albugo candida</i>	DC6	5'-GAG-GGA-CTT-TTGGGT-AATCA- 3
	LR-0	5'-GCT-TAA-GTT-CAGCGG-GT-3
<i>Neopseudocercospora capsellae</i>	ITS1	5'TTT CCG TAG GTG AAC CTG C3'
	ITS4	5'TCCTCC GCT TAT TGA TAT GC3'