

FIG S1: Bioinformatics analysis of VdHP1. (A) The conserved domain of VdHP1. (B) Transmembrane domain analysis of VdHP1. (C) The signal peptide sites of VdHP1 protein.

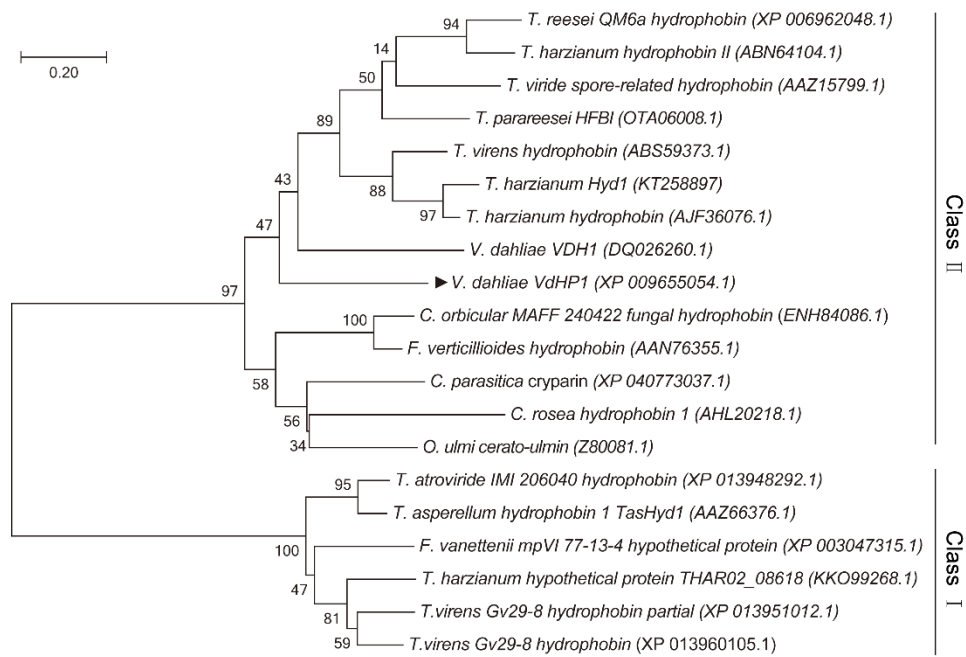


FIG S2: Phylogenetic analysis. MEGA 7 software used to construct phylogenetic neighbor-joining tree of the VdHP1 protein sequences and some hydrophobins sequences. The VdHP1 protein was marked with a black triangle and the hydrophobins sequences are from the GenBank database.

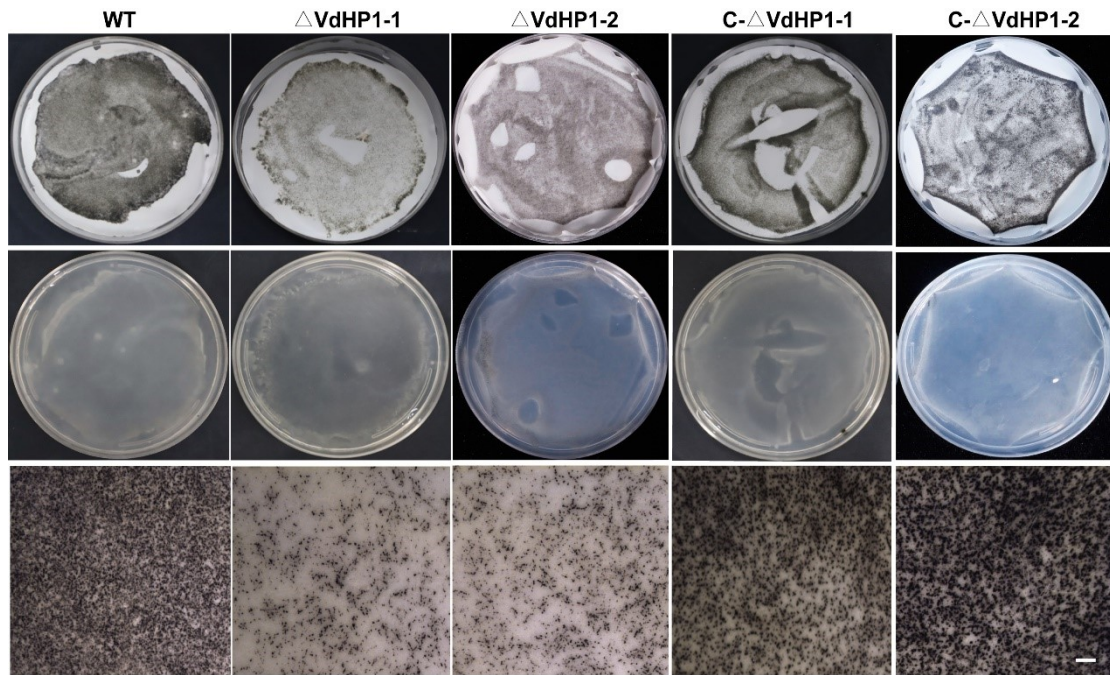


FIG S3: Deletion of VdHP1 inhibited microscerotial formation. The conidia were spread over the cellulose membrane ($\varphi = 0.45 \mu\text{m}$) after 6 dpi of growth. The image of the microscerotia was taken under a stereomicroscope. Bar = 5 mm

Supplementary Table 1: Primers used in this study.

Primer name	Sequence (5'-3')	Enzyme loci	In this study
VdHP1-F	ATGCAGTTCACCATCGTCG		PCR,qPCR,sqRT-PCR
VdHP1-R	TTAACCAACGACGGGAGTGC		PCR,qPCR,sqRT-PCR
Hyg-F	GACGTAACTGATATTGAAG		PCR,qPCR
Hyg-R	CGTCCGAGGGCAAAGGAATAG		PCR,qPCR
B303-VdHP1-UP-F	GGACCGGACGGGGCGGTACCG CGCTGACGACATGCCTT	KpnI	deletion of <i>VdHP1</i>
B303-VdHP1-UP-R	TTTGAAGGTGGTTTGGTTTGGT TGGTGGTGGTGGTAGAGGTTG		deletion of <i>VdHP1</i>
B303-VdHP1-Hyg-F	CAAACCAAACCACCTTCAAAG ACGTAACTGATATTGAAG		deletion of VdHP1
B303-VdHP1-Hyg-R	ACACGATTGAGTCAGAACTTC GTCCGAGGGCAAAGGAATAG		deletion of VdHP1
B303-VdHP1-DOWN-F	CTATTCCTTTGCCCTCGGACAA G TTCTGACTCAATCGTGTGAT		deletion of VdHP1
B303-VdHP1-DOWN-R	TTAATTAAGACCCGGGACTAAA GCACATCTCTCCAGCAGC	PacI	deletion of VdHP1
1302 - VdHP1-UP-F	GACAGCCCGCAAACCTCTAGA GCGCTGACGACATGCCTT	XbaI	complementation of VdHP1
1302 - VdHP1-UP-R	GCGACGATGGTGAACCTGCATTT TGAAGGTGGTTTGGTTTGG		complementation of VdHP1
1302-VdHP1-F	CCAAACCAAACCACCTTCAA A TGCAGTTCACCATCGTCGC		complementation of VdHP1
1302-VdHP1-R	ACACGATTGAGTCAGAACTTTT A ACCAACGACGGGAGTGC		complementation of VdHP1
1302-VdHP1-DOWN -F	AAGTTCTGACTCAATCGTGT GAT TTGTATGCGGCGCAATTCT		complementation of VdHP1
1302-VdHP1-DOWN -R	ATTATTATGGAGAACTCGAG AAGCACATCTCTCCAGCAGC	XhoI	complementation of VdHP1

Vdβt-F	AACAACAGTCCGATGGATAATT C		qRT-PCR
Vdβt-R	GTACCGGGCTCGAGATCG		qRT-PCR
Act-F	CCTATGTTGCCCTGGACTATGA GC		qRT-PCR
Act-R	GGACAACGGAATCTCTCAGCTC C		qRT-PCR
Hyg probe-F	atttgtagcggcagcagc		for Southern blotting
Hyg probe-R	gtgctgacattggggaatt		for Southern blotting
pSUC2-VdHP1-F	CGGAATTCATGCAGTTCACCAT CGTCGC	EcoR1	Yeast signal sequence trap system
pSUC2-VdHP1-R	CCGCTCGAGGGGCAGACGGTG GCA	Xho1	Yeast signal sequence trap system
<i>NbActin-F</i>	TGGTCGTACCACCGGTATTGTG TT		sqRT
<i>NbActin-R</i>	TCACTTGCCCATCAGGAAGCTC AT		sqRT