Table S4. Putative orthologue families unique to Pseudofungi in comparison to other eukaryotes.

Gene Name	Hyphochytrium gene	Oomycete exemplar	Possible provenance of novel gene
	(Accession number)	(Accession number)	[and/or characteristic]
RCC1 repeat domain containing protein	Hypho2016_00014105/6	XP_012200151	Novel domain combination
EF-hand domain containing protein	Hypho2016_00009822	XP_008620138.1	Novel domain combination
Catalytic domain of AGC family Serine/Threonine	Hypho2016_00001388	XP_009830367.1*	Novel domain combination
Kinases (STkc_AGC) containing			
proteinHypho2016_00001388-RA			
VWD domain containing protein	Hypho2016_00005547	Pythium genome sequence	Novel domain combination
		PYU1_G013767-201 from Ensembl.	
Ankyrin repeat and bacterial Toll-like receptor	Hypho2016_00009105	ETK72757	Novel domain combination
domain protein			
FKBP-type peptidyl-prolyl cis-trans isomerase	Hypho2016_00003951	XP_009828623.1	Novel domain combination
domain containing protein			
Cysteine-rich domain containing protein	Hypho2016_00003868	AIG56228	Novel protein (no similarity to non-
			oomycete taxa)
Conserved hypothetical protein	Hypho2016_00005528	CCI42978	Novel protein (no similarity to non-
			oomycete taxa)
Large eukaryotic DNA virus major capsid protein	Hypho2016_00000981	ETI39689	Viral integration

\*Also detected in domain analyses – see Table S