

Table S2: Primers used to amplify functional genes

	Primer name	Sequence	Targeted Protein Sequence
Celulase gene screens			
Endoglucanase (<i>egl</i>)	endoglucGH5f	ATYTTTGATGTYATGAAYGARCC	IFDVMNEP
	endoglucGH5r	CCACCAIGGWCCWGCIGC	WAGPWW
Cellobiohydrolase I (<i>cbhl</i>)	fungCBHlf*	ACCAAYTGCTAYACIRGYAA	TNCYTGN
	fungCBHlr	GCYTCCCAIATRCCATC	EMDIWEA
β-glucosidase (<i>bg1</i>)	inbetaglucGH3f	GGHGGWGGITCIGCIGCVCT	GGGSAAL
	inbetaglucGH3r	TGICGIGTCCAGTTRTCIATAC	VIDNWTR
Extracellular Aspartic Protease			
	AsProtF1.2	GAYCAIGGCTCITCIGAYCTITGG	DTGSSDLW
	AsProtR2.3	GTGCCINWRTCGATIAYIGT	TIIDSGT
RT-PCR primers			
β-glucosidase (<i>bg1</i>)			
<i>Amanita thiersii</i>	AthintBGf	GGCGGTGGGTCCGGCGGCGCTGAAAG	GGGSAAL
	AallBGr	TGGCGGGTCCAGTTGTCGATGAC	VIDNWTR
<i>Amanita cokeri</i>	AcokintBGf	GGTGGTGGGTCCGGCGGCCCTGACC	GGGSAAL
	AallBGr (see above)		
<i>Amanita crenulata</i>	AmuscintBGf	GGTGGAGGGTCCGGCGGCGCTTAAAC	GGGSAAL
	AallBGr (see above)		
elongation-factor 1 alpha (<i>ef1α</i>)			
<i>Amanita thiersii</i>	AthefF	CAAGATGGACACTACTAAGTGGAG	RWTLLSG
	AallefR	CCGATACCACCGATCTTGTAGAC	RLQDRWYR
<i>Amanita cokeri</i>	AcokefF	CAAGATGGATACCACCAAATGGAG	RWIPPNG
	AallefR (see above)		
<i>Amanita crenulata</i>	AcrenefF	CAAGATGGATACCACTAAGTGGAG	RWIPLSG
	AallefR (see above)		

* Previously published primer pair (Edwards et al. 2008)