



glu1	FPSYTIVIS <u>E</u> FALTN-----GG--NQVAFFESAFPFLDGLSYVLLYFPFVATSP-----
schco	FPNYKVVIS <u>E</u> FALANPS---GGQTAQVNFFKQAFAWLDSQSVMELYFPFVATSP-----
LACBI	YPQYPIWTE <u>E</u> YASTS-----TDSSVVADFLNQTITYMDTL'DWIERYSWFGYF-----
COPCI	FPEYPIWTE <u>E</u> YADIS-----SNDAEVYNFMNASTHYLDELEVERYAWFGFRPEPDVH
PENMQ	YPNTSIWTE <u>E</u> YALAH-----ADLKDTQAFFQTSAYEFDRLDYVERYSYFGSFRSSISNV
NEOFI	Y-HLPIWITE <u>E</u> FAASG-----SEAEQIQFLQAVLPWLDAQPYVERYAYFGVFPG-----
BOTFB	GGNRLPLWTE <u>E</u> FQASG-----STDEQNAFMKEVLPWLDASTMVDRYAWFMADTAAG-----
MAIZE	CGGKPIWLTE <u>E</u> FAPTG-----SDEAIASWLKDAIPQLEDLSYLDAYSYFKVETG-----
SCHPO	G--LPIWLTE <u>E</u> FACTNWDDSNLPSLDEVKTLMTSALGFLLDGHGSVERYSWFAPATELG-----
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glu1	-ALLQAND-----PGAVTTVGTSCLYTNAAGPSSVGNLMY-----
schco	-ALLQAND-----GGAVTNVGTGSCLYTNSGGPSAVGNLMLSNNTGNVIRDLWK-----
LACBI	-----
COPCI	YNMLRADGGLNALGELYIGAETVHTHVIDPFAGYKTFDGADYAGQPPIITTFPALYGAHC
PENMQ	GPNATMLQ-----NGQLTDIGSWYLGGAAATGNAPNSSSSSPTSGSTGVGY-----
NEOFI	-----FLVNEGGDGLSQLQVYATYSG-----
BOTFB	-----GLMSSTSALSTLGNNTFKTA-----
MAIZE	-----MLMTSETELSSYGSVYASA-----
SCHPO	-----AGVNNNALISSGGLSEVGEIYIS-----
glu1	-----
schco	LSRPHEATSSVYRADIP-----
LACBI	-----
COPCI	RRAVFGQGGLTLLAVLVTLISGSLAGVFGMLW-----
PENMQ	KVDSYQAMLQALVVFLVILAFV-----
NEOFI	-----
BOTFB	-----
MAIZE	-----
SCHPO	-----

Fig. S1 Alignment of proteins that had similarity to GLU1.

glu1:*Lentinula edodes*

schco: *Schizophyllum commune*

LACBI: *Laccaria bicolor*

COPCI: *Coprinopsis cinerea*

PENMQ: *Penicillium marneffei*

NEOFI: *Neosartorya fischeri*

BOTFB: *Botryotinia fuckeliana*

MAIZE: *Zea mays*

SCHPO: *Schizosaccharomyces pombe*

Underline indicates signal peptide of GLU1

Red type indicates N-terminal amino acid sequence of GLU1

Yellow marker indicates conserved domain among these putative glucanases