

## **Additional file 2**

**Figure S1** - Co-regulation of *cel6a/cbh2* (data obtained from microarrays) and *cel7a/cbh1* (data obtained from qPCR) in QM9414 and  $\Delta blr1$ ,  $\Delta blr2$ ,  $\Delta env1$ ,  $\Delta gnb1$ ,  $\Delta gng1$  and  $\Delta phlp1$ .

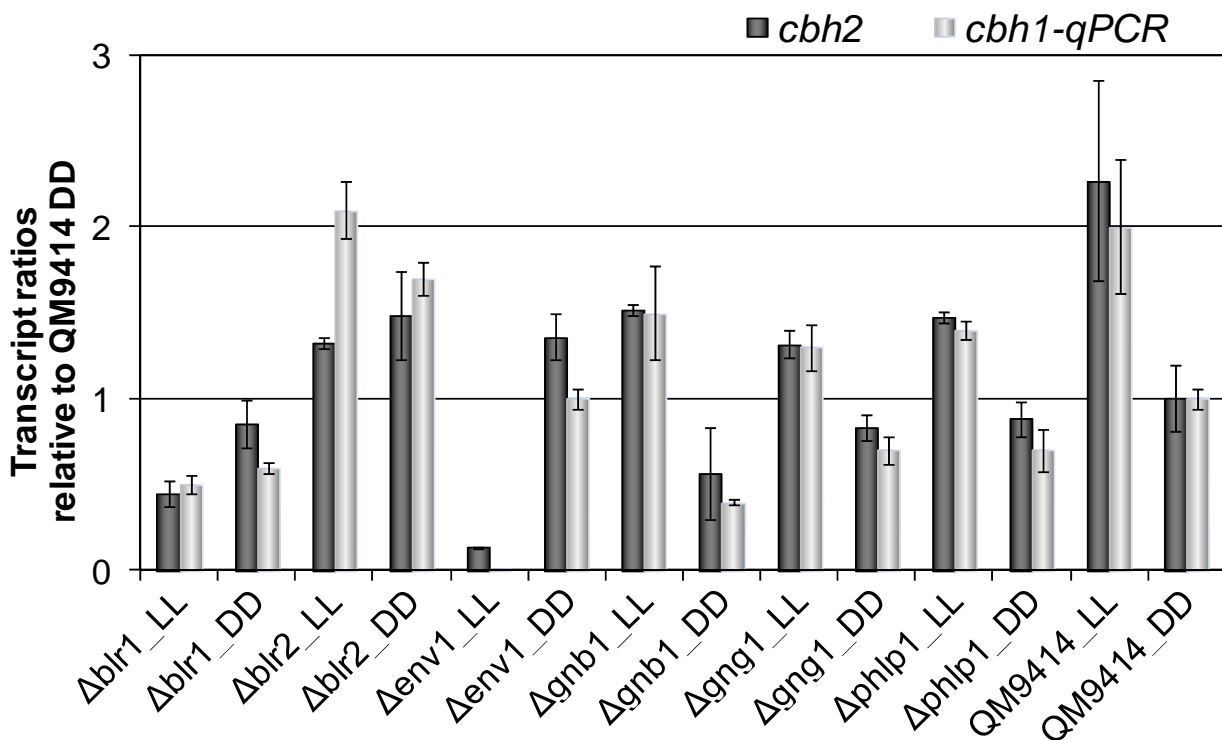
**Figure S2** – PCA analysis of replicate datasets of different mutants and conditions.

**Table S1** - Regulation of glycoside hydrolase genes in QM9414 and the deletion strains  $\Delta env1$ ,  $\Delta blr1$  and  $\Delta blr2$  and comparison with regulations in  $\Delta phlp1$ ,  $\Delta gnb1$  and  $\Delta gng1$ .

**Table S2** – Genes coregulated with *cbh2/cel6a* in QM9414 and  $\Delta blr1$ ,  $\Delta blr2$  and  $\Delta env1$ .

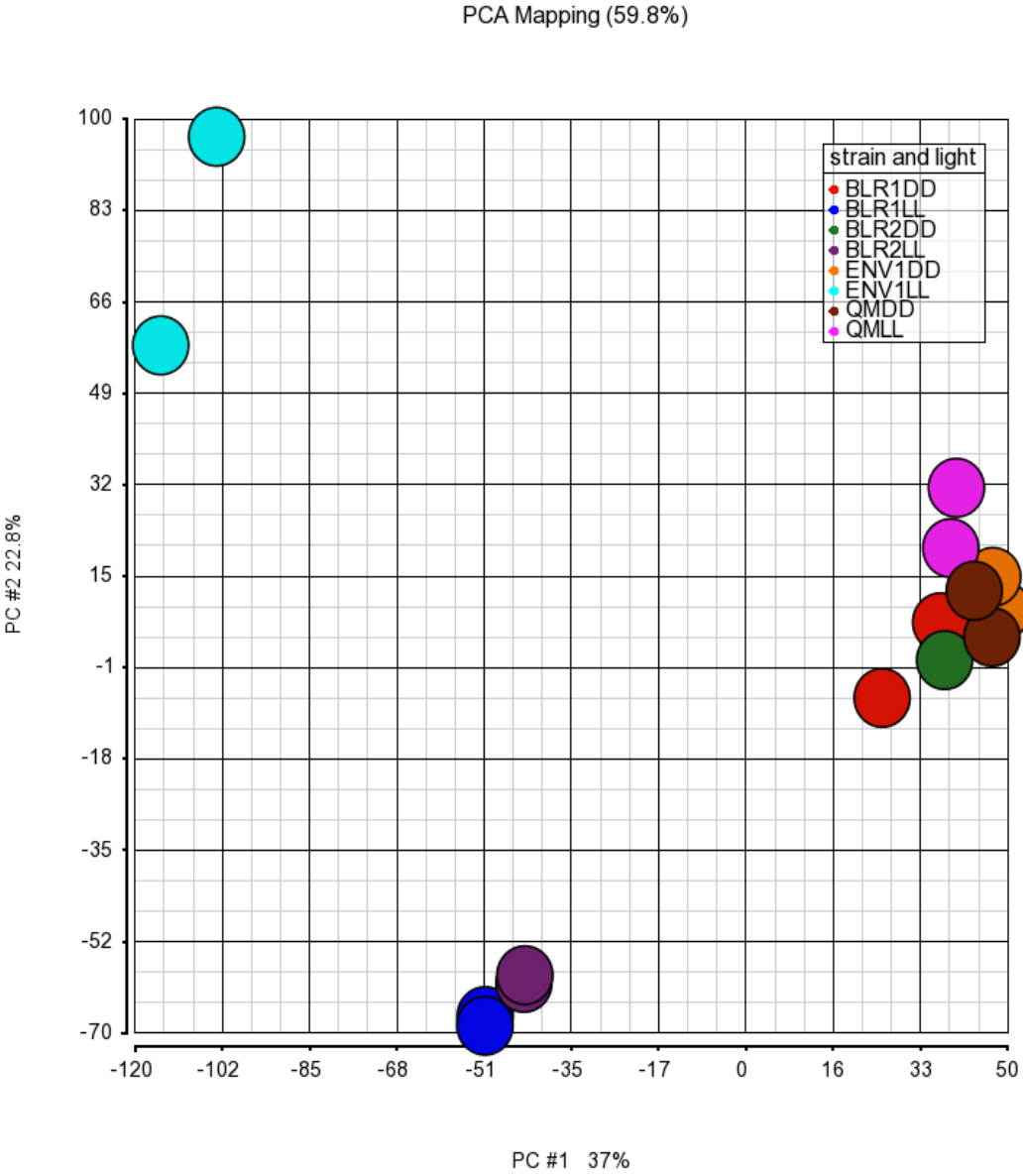
**Table S3** - Sequences of oligonucleotides used in this study.

### *Supplementary Figures*



**Figure S1** - Co-regulation of *cel6a/cbh2* (data obtained from microarrays) and *cel7a/cbh1* (data obtained from qRT-PCR) in QM9414 and  $\Delta blr1$ ,  $\Delta blr2$ ,  $\Delta env1$ ,  $\Delta gnb1$ ,  $\Delta gng1$  and  $\Delta phlp1$ . Strains were grown on 1 % (w/v) microcrystalline cellulose as carbon source for 72 hours in constant light (LL) or darkness (DD).  $\Delta gnb1$ ,  $\Delta gng1$  and  $\Delta phlp1$  were included in the analysis as additional controls for coregulation of *cbh1* and *cbh2* in different strains.

**Supplementary Figure S2 – PCA analysis of replicate datasets of different mutants and conditions.**











**Supplementary Table S2** List of genes coregulated with *cel6a/cbh2*.

TRE	Gene name	Description	Specification	Group	Topic
TR_72567	cel6A;cbh2	cellobiohydrolase CBH2	cellulolytic enzyme	Glycoside Hydrolase Family 6 protein	Glycoside hydrolases
TR_102743					
TR_103041					
TR_103064		Uncharacterized conserved protein			
TR_103555					
TR_105275					
TR_108477		candidate oligo-1,6-glucosidase		Glycoside Hydrolase Family 13 protein	Glycoside hydrolases
TR_112328					
TR_120120					
TR_120229		candidate xylanase	hemicellulolytic enzyme	Glycoside Hydrolase Family 10 protein	Glycoside hydrolases
TR_120311		unique protein			
TR_120312	cel5A	endo-1,4-glucanase EGL2	cellulolytic enzyme	Glycoside Hydrolase Family 5 protein	Glycoside hydrolases
TR_120504					
TR_120877					
TR_120961	cel61B	endo-1,4-glucanase; CEL61B	cellulolytic enzyme	Glycoside Hydrolase Family 61 protein	Glycoside hydrolases
TR_121127	bxl1	b-xylosidase BXL1 (GenBank acc. No.CAA93248)		Glycoside Hydrolase Family 3 protein	Glycoside hydrolases
TR_121189					
TR_121418					
TR_122208	xyr1	xylanase regulator 1		cellulase transcription factor	Transcription factors
TR_123473		MFS, 12 TMs			
TR_123940		CIP2			
TR_123992		swollenin			
TR_23146					
TR_3739		candidate b-xylosidase	hemicellulolytic enzyme	Glycoside Hydrolase Family 43 protein	Glycoside hydrolases
TR_49081		candidate xyloglucanase; EGL6 (CEL74A)	hemicellulolytic enzyme	Glycoside Hydrolase Family 74 protein	Glycoside hydrolases
TR_52438					
TR_53238		TRE456, hypothetical G-protein coupled receptor, family 2, secretin like, related to Magnaporthe grisea MG00532 (GPCR with homology to rat growth hormone releasing factor)		G-proteins	signal transduction
TR_53331					
TR_53722					
TR_54086					
TR_54219					

TRE	Gene name	Description	Specification	Group	Topic
TR_55999		candidate a-galactosidase		Glycoside Hydrolase Family 27 protein	Glycoside hydrolases
TR_56684		hypothetical sugar transporter family protein			Transport
TR_61763					
TR_63001					
TR_69276		candidate b-glycosidase distantly related to xylanase		Glycoside Hydrolase Family 5 protein	Glycoside hydrolases
TR_69316		unknown conserved protein			
TR_69375		unknown hypothetical protein			
TR_69944		candidate a-xylosidase		Glycoside Hydrolase Family 31 protein	Glycoside hydrolases
TR_70098		Amino acid transporters			
TR_70520					
TR_72526		candidate a-glucuronidase GLR1 (GenBank acc.no. CAA92949)	hemicellulolytic enzyme	Glycoside Hydrolase Family 67 protein	Glycoside hydrolases
TR_73632		AXE1			
TR_73638		CIP1			
TR_73654		The basic-leucine zipper (bZIP) transcription factors are proteins that contain a basic region mediating sequence-specific DNA-binding followed by a leucine zipper region (see IPR002158 ) required for dimerization.	basic-leucine zipper domain-containing/DNA binding domain protein		Transcription factors
TR_76215		Sulfide dehydrogenase		Additional aspects of sulfur metabolism	Sulfur metabolism
TR_76696		Flavin-containing monooxygenase			
TR_76722		flavo-hemoglobin			
TR_77154		RfeB is an A. nidulans DNA-binding Homeobox Nuclear protein	transcription factor-like protein		Transcription factors
TR_77481		D-xylulose 5-phosphate/D-fructose 6-phosphate phosphoketolase			
TR_80240	bga1	b-galactosidase (GenBank acc. No. CAD70669) (EC 3.2.1.23)		Glycoside Hydrolase Family 35 protein	Glycoside hydrolases
TR_81148					



**Supplementary Table S3 - Sequences of oligonucleotides used in this study.**

<b>fragment</b>	<b>oligonucleotide</b>	<b>study</b>	<b>sequence</b>
<i>cbh1</i>	RTcbh1F	Tisch <i>et al.</i> , 2011a	5' ACCGTTGTCACCCAGTTCG 3'
	RTcbh1R	Tisch <i>et al.</i> , 2011a	5' ATCGTTGAGCTCGTTGCCAG 3'
<i>rpl6e</i>	RTL6eF1	Tisch <i>et al.</i> , 2011a	5' GATACGTCA TCGCCACCTCC 3'
	RTL6eR1	Tisch <i>et al.</i> , 2011a	5' CTTCTCCTTGGCCTTCTCG 3'
<i>xy11</i>	RT_xy11_fw1	This study	5' CATCTACGCCCCGATCAAGC 3'
	RT_xy11_rev1	This study	5' CAAAGGACGAGTAGGCGGTGAC 3'
<i>lad1</i>	RT_lad1_fw1	This study	5' CTTGCCCCGCTTGTCATCAC 3'
	RT_lad1_rev1	This study	5' CCGTTTCCTCAGCCGACTTG 3'
<i>xdh1</i>	RT_xdh1_fw1	This study	5' CTCCACCATTGTCAGCGTC 3'
	RT_xdh1_rev1	This study	5' CCTTTGCGTTGTCCTCAGC 3'
<i>lxr3</i>	RT_lxr3_fw1	This study	5' AGGAGGGCACGACGATTGAC 3'
	RT_lxr3_rev1	This study	5' GCCTTGGAGCTGTTGTACACG 3'
<i>lxr4</i>	RT_lxr4_fw1	This study	5' GGCAAGAAGTTCCAGGTTCG 3'
	RT_lxr4_rev1	This study	5' CAGCACGTTGATGGCGTAG 3'
<i>xki1</i>	RT_xki1_fw1	This study	5' TGTCAGATCACGCCCTTCAC 3'
	RT_xki1_rev1	This study	5' GGTGAAGAAGTGGTACGAGC 3'