



Additional file 3. Secreted CBH activity produced by recombinant strains co-expressing *cbh1* and *cbh2* genes. The strains expressing the corresponding single *cbh1* and *cbh2* genes are included for comparison. Activities in cell-free culture supernatants were measured after three days cultivation in YPD medium. **A.** Secreted MULac activity (microM MU released per minute) and **B.** Percentage of avicel hydrolysis by supernatants of the same strains in 24 and 48 hours. The values shown are the mean values of three repeats \pm SD. **C.** Avicel hydrolysis by diluted cell-free culture supernatants of yeast strains *Sc[Teabh1-CBM & Clcbh2b]* diluted 1:12 (■), *Sc[Hgcbh1 & Clcbh2b]* diluted 1:9 (○), *Sc[T.e.cbh1]* diluted 1:2 (□), *Sc[Teabh1-TrCBM-C]* diluted 1:5 (Δ), and *Sc[empty vector]* non-diluted (◆). The control sample containing buffer (◇) instead of culture supernatant is also shown. The reaction mixture was sampled after 4, 24 and 48 h of incubation.