



**Additional file 2 : Relative gene expression of the secretion stress biomarkers *pdi1* and *hac1*, and the cellobiohydrolase gene *cbh1* in Rut-C30 in fed-batch cultures.** RNA samples were taken at three timepoints (2h, 4h, 6h) after the addition of DTT. The relative expression is shown with respect to that on glucose at 2h. The error bars indicate standard deviation of two biological replicates.