**Additional file 5**

PC9

OE*cre1*

KO*cre1*

None

**Figure S4. Hydrolysis of un/pretreated wheat straw.** The wild type PC9 and the two transformants were used as a biological pretreatment of wheat straw for 19 and 35 days. The pretreated and untreated straw samples were hydrolyzed by the commercial cellulase cocktail Cellic® CTec2 (Novozymes), and the concentration of released soluble sugars was measured by the DNS method [1].

1. Miller GL. Use of dinitrosalicylic acid reagent for determination of reducing sugar. Anal Biochem. 1959;31:426–8.