**Additional file 6.** Fold changes of transcription levels of selected genes. 

- **a** *E. coli* BW25113 at dilution rate of 0.35 h⁻¹ compared with 0.1 h⁻¹.
- **b** The ∆ptsGglpK⁺ mutant at dilution rate 0.35 h⁻¹ compared with 0.1 h⁻¹.
- **c** The ∆ptsGglpK⁺ mutant compared with the wild-type at dilution rate 0.35 h⁻¹.

Asterisks indicate the statistical significance level: P-value < 0.05 (*). *cyoA*: cytochrome bo terminal oxidase subunit II gene; *cydA*: cytochrome bd-I terminal oxidase subunit I gene; *gapC*: split glyceraldehyde 3-phosphate dehydrogenase C gene; *ndh*: NADH dehydrogenase NDH-2 gene; *nuoA*: NADH dehydrogenase NDH-1 gene; *pgi*: phosphoglucone isomerase gene; *rpiB*: ribose-5-phosphate isomerase B gene; *talA*: transaldolase A gene.