**Table S3** Primers used for mutant strains verification

|  |  |
| --- | --- |
| Name | Sequence 5’→3’ |
| *glk*-P1 | TCGCCGATTATGCCGAGGTA |
| *glk* -P4 | ACGCTGCTGCCCTCGATGAA |
| *fruA*-P1 | TGTTCCGACGCCGAAGCCGT |
| *fruA*-P4 | CCGCTCCACTCGTGTCGTTC |
| *fruB*-P1 | GCAACATCGGTCCCGCACTC |
| *fruB* -P4 | GGCGCATCTTCCAGCACCTC |
| Over-expression P1 | ACAATTTCCATTCGCCATTC |
| Over-expression P2 | CGTAAATCACTGCATAATTC |