



Figure S2. Fructose and mannose utilization pathway mutants.

Mutations in the gene predicted to encode mannose-6-phosphate isomerase (*manA*, FTN_0408) reduced growth on mannose and fructose (Data set S2). Two additional genes required for growth on the sugars correspond to a predicted sugar kinase (*cscK*), which appears to act on both fructose and mannose, and a predicted transporter ("*fruP*", FTN_0688), which appears to import fructose. Mutations in FTN_0511 and FTN_0512 (*glgX*) also led to fructose-minus phenotypes.