

RAST annotation	Prokka annotation	
Protein	Protein	Gene
Two-component sensor kinase SA14-24	Sensor histidine kinase WalK	<i>walK</i>
PTS system, mannose-specific IIA component (EC 2.7.1.191) / PTS system, mannose-specific IIB component (EC 2.7.1.191)	PTS system mannose-specific EIIAB component	<i>manX</i>
PTS system, mannose-specific IIC component	PTS system sorbose-specific EIIC component	<i>sorA/manY</i>
ABC transporter, substrate-binding protein (cluster 1, maltose/g3p/polyamine/iron)	Lactose-binding protein	<i>lacE</i>
ATP-binding region, ATPase-like: Histidine kinase, HAMP region: Histidine kinase internal region	Sensor histidine kinase YpdA	<i>ypdA</i>
Transcriptional regulator, Xre family	HTH-type transcriptional regulator ImmR	<i>immR</i>
hypothetical protein	M protein trans-acting positive regulator	<i>mga</i>
Regulatory protein Spx	Regulatory protein Spx	<i>spxA</i>
hypothetical protein	ABC transporter permease protein YxdM	<i>yxdM</i>
Nitric oxide reductase activation protein NorD	hypothetical protein	<i>norD</i>
Cell wall-binding protein	Cell wall-binding protein YocH	<i>yocH</i>
Lactose and galactose permease, GPH translocator family	Lactose permease	<i>lacS</i>
Transcription elongation factor GreA	Transcription elongation factor GreA	<i>greA</i>
hypothetical protein	Catabolite control protein A	<i>ccpA</i>
Outer membrane TonB-dependent transporter, utilization system for glycans and polysaccharides (PUL), SusC family	TonB-dependent receptor SusC	<i>susC</i>
Periplasmic solute-binding domain of two-component sensor kinase signaling system /Two-component system sensor histidine kinase/response regulator hybrid	Sensor histidine kinase RcsC	<i>rscC</i>

Supplementary Table 8 | Annotation of mutated driver genes in this study.