

Table S1. Primers used in this study.

Target Gene ^a	Putative function	Primer	Sequence (5'- 3')
SSU0144	Permease of a metal ABC- transporter	Fssu0114-L1 Rssu0114-L2 Fssu0114-R2 Rssu0114-R1	gtggggaattgtgactt acgaacgaaaatcgacctgcataactttgccgcctgag ttagaaaacaataaaccttgcataatggttatgggttctgacttc agcatctttctttctgggtat
<i>glA</i>	Aquaporin	Fssu0249-L1 Rssu0249-L2 Fssu0249-R2 Rssu0249-R1	caccgacaaagtgtgaaaggatac acgaacgaaaatcgacctgc ataataaggagtgcagtcgctaaa ttagaaaacaataaaccttgcataatcatcaattgccgctgtt ctgtccaaatcgcccac
SSU0469	unknown	Fssu0469-L1 Rssu0469-L2 Fssu0469-R2 Rssu0469-R1	agcaactcttccaaccaacct acgaacgaaaatcgacctgcataatctctgaaaaacctgacca ttagaaaacaataaaccttgcataatccccccccgcacag taccagtcagtcgataataagc
<i>fhs</i>	Formate-tetrahydrofolate ligase	Fssu0648-L1 Rssu0648-L2 Fssu0648-R2 Rssu0648-R1	atcagcgccatttcgtca acgaacgaaaatcgacctgctgtgcaatgtcaatatctgtttc tta gaaaacaataaaccttgcataatggcagcagacgggacag tggggtgcagctatttcaggt
SSU0883	Permease of a Glu/Gln ABC- Transporter	Fssu0883-L1 Rssu0883-L2 Fssu0883-R2 Rssu0883-R1	gtcacgggaagctgggaaatct acgaacgaaaatcgacctgctaactcgaatggggcgttaagc ttagaaaacaataaaccttgcataatcttccaagcgggttaa acattgatatttcggcgtttct
<i>penA</i>	Penicillin-binding protein 2b	Fssu1186-L1 Rssu1186-L2 Fssu1186-R2 Rssu1186-R1	ccttagtggggcgcaatgg acgaacgaaaatcgacctgcataatcacgataaaaaataaata ttagaaaacaataaaccttgcataatggcagtgctgtcct tccccgtctggcctaataaata
SSU1501	CsbD-like protein	Fssu1501-L1 Rssu1501-L2 Fssu1501-R2 Rssu1501-R1	ttgtcatggactcatgtgac acgaacgaaaatcgacctgcttcagatccagatagctg ttagaaaacaataaaccttgcataatgagctagtcgaagatgc cagagagggcacagatgagg
SSU1869	Permease of an ABC transporter	OZnu F OZnu R	aaatagtcggaatgacagcactgg ctatgccgtaggtcgctgataa
SSU1940	DHH family protein	Fssu1940-L1 Rssu1940-L2 Fssu1940-R2 Rssu1940-R1	cttgaccagtcgggcagaata acgaacgaaaatcgacctgcacagcgcaatcaaccaataag ttagaaaacaataaaccttgcataatggcggtattcgttga attgcctcatttctatcag
Spectinomycin		Spec-F Spec-R	gcaggtcgatttctgtcgt atgcaagggtttattgtttctaa

^a with exception of spectinomycin, gene name or gene locus based on genome sequences of P1/7 are provided.