

S6 Table: Primers used in this study

Number	Name	Sequence
ANG928	F-KpnI-02407	TTTGGTACCTATTACCCGGAGGAGATG
ANG1135	5-NheI-101AA-SAV2163	CTAGCTAGCTTTTTTAAAACGCTATACTTCTAATACGTATAG
ANG1137	3-EcoRI-SAV2163	CGGAATTCTTATTTACACCTTTCTTTTGAAAGCGTG
ANG1244	5-seq-pBAD18	GCACGGCGTCACACTTTGCTATGCC
ANG1245	3-seq-pBAD18	GGCAAATTCTGTTTTATCAGACCGC
ANG2342	5-NcoI-GlmM	CACGCCATGGGAAAATATTTTGGTACAGACGGAGTAAGAGG
ANG2343	3-XhoI-GlmM	CCGCTCGAGGCCGCTGCTGCCGCGCGGCACCAGTTTATCTAATC CCATTTTATCTTGAACC
ANG2475	R_HindIII_dacA	GCGCAAGCTTTTATTTACACCTTTCTTTTGAAAGCG
ANG2476	R_HindIII_dacAybbr	GCGCAAGCTTTTATTTTACATTTATATAAGCCTTCG
ANG2477	R_HindIII_dacAybbr glmM	GCGCAAGCTTTTATTTATCTAATCCCATTTTATCTTG
ANG2597	front-YbbR-no start	CATTTACTTTCTAGCTAATTATTTACACCTTTCTTTTGAAAGCG
ANG2598	back-YbbR-no start	GTGAAATAATTAGCTAGAAAGTAAATGGGGCTTG
ANG2616	3-front-dacA-N166K/T172K	GGTTTGTTAGGTATAAAGACTTTAATTAAGTTCTTGCG
ANG2617	5-back-dacA-N166K/T172K	ATTAAAGTCTTTATACCTAACAAACCTTTACATGATGGTGC
ANG2618	3-front-dacA-N166C/T172C	GGCAGTTAGGTATAAAGACGCAAATTAAGTTCTTGCGAAA TATTTG
ANG2619	5-back-dacA-N166C/T172C	TTTGCCTCTTTATACCTAACTGCCCTTTACATGATGGTGCAATG

Restriction sites in primer sequences are underlined