

Supplementary Table S3 Details of primer pairs of As-cycling genes

Genes	Primer name	Sequence (5'-3') of primer pairs
<i>aioA</i>	AroAdeg2F	5'-GTCGGYTGYGGMTAYCAYGYYYTA-3'
	AroAdeg2R	5'-YTCDGARTTGTAGGCYGGBCG-3'
<i>arrA</i>	AS1F	5'-CGAAGTTCGTCCCGATHACNTGG-3'
	AS1R	5'-GGGGTGCGGTCYTTNARYTC-3'
<i>arsC</i>	amlt-42-F	5'-TCGCGTAATACGCTGGAGAT-3'
	amlt-376-R	5'-ACTTTCTCGCCGTCTTCCTT-3'
<i>arsM</i>	arsMF1	5'-TCYCTCGGCTGCGGCAAYCCVAC-3'
	arsMR2	5'-CGWCCGCCWGGCTTWAGYACCCG-3'