

1 Table SI 1. Primer name and sequence

Target genes	Primer name	Sequence
16S rRNA	16S_Forward (1055f)	ATGGCTGTCGTCAGCT
	16S_Reverse (1392r)	ACGGGCGGTGTGTAC
amoA	amoA-1F	GGGGTTTCTACTGGTGGT
	amoA-2R	CCCCTCKGSAAAGCCTTCTTC
nxB	nxB 169f	TACATG TGGTGAACA
	nxB 638r	CGGTTCTGGTCRATC A
narG	narG f	TCGCCSATYCCGGCSATGTC
	narG r:	GAGTTGTACCAGTCRGC SGAYTC SG
qnorB	qnor 2F	GGNCAYCARGGNTAYGA
	qnor 5R	ACCCANAGRTGNACNACCCACCA
nirK	nirK 876	ATYGGCGVAYGGCGA
	nirK 1040	GCCTCGATCAGRTRRTGGTT
nosZ	nosZ-F	CGYTGTCMTGACAGCCAG
	nosZ-R	CATGTGCAGNGCRTGGCAGAA
nrfA	nrfA F2f	CACGACAGCAAGACTGCCG
	nrfA 2r	CCGGCACTTTGAGCCC

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