Table S3. Taxonomic assignments of *nor* transcripts based on metatranscriptomic analysis.

Sample	Accession No.	NCBI-nr annotation	Organism	Phylum/Proteobacterial class	Identity(%)	Similarity(%)	Bit score	E-value
1	PIP70023.1	nitric-oxide reductase large subunit	Nitrospirae bacterium	Nitrospirae	91%	95%	164	1.10E-45
	WP_011684686.1	nitric-oxide reductase large subunit	Candidatus Solibacter usitatus	Acidobacteria	79%	88%	96.7	5.10E-21
	WP_014238124.1	nitric oxide reductase	Azospira oryzae	Betaproteobacteria	93%	100%	80.5	1.10E-15
	SIO58548.1	nitric oxide reductase	Singulisphaera sp. GP187	Planctomycetes	86%	93%	96.3	2.10E-20
	OGQ11602.1	nitric-oxide reductase	Deltaproteobacteria bacterium	Deltaproteobacteria	73%	89%	125	1.10E-31
	WP_038623050.1	nitric-oxide reductase large subunit	Dyella jiangningensis	Gammaproteobacteria	85%	93%	169	3.10E-46
	PIP70023.1	nitric-oxide reductase large subunit	Nitrospirae bacterium	Nitrospirae	91%	95%	110	3.10E-26
	WP_012487172.1	nitric-oxide reductase large subunit	Cellvibrio japonicus	Gammaproteobacteria	73%	91%	65.1	8.10E-10
	WP_012645124.1	nitric-oxide reductase large subunit	Geobacter daltonii	Deltaproteobacteria	67%	82%	115	5.10E-27
	WP_011521171.1	nitric-oxide reductase large subunit	Candidatus Koribacter versatilis	Acidobacteria	85%	92%	112	2.10E-26
	GBC78677.1	Nitric oxide reductase subunit B	bacterium HR08	Unclassified bacteria	80%	100%	122	9.00E-33
	WP_039744910.1	nitric-oxide reductase large subunit	Geobacter pickeringii	Deltaproteobacteria	77%	92%	119	2.10E-27
2	OQZ06253.1	nitric oxide reductase large subunit	Planctomycetes bacterium UTPLA1	Planctomycetes	79%	88%	111	6.00E-26
	PIR19232.1	nitric oxide reductase large subunit, partial	Elusimicrobia bacterium	Elusimicrobia	69%	83%	91.7	8.10E-19
	WP_056199587.1	nitric-oxide reductase large subunit	Pelomonas sp. Root1237	Betaproteobacteria	79%	86%	73.9	7.10E-13
	OGW20500.1	nitric-oxide reductase, partial	Nitrospirae bacterium GWC2_46_6	Nitrospirae	88%	92%	94	2.10E-20
	WP_090729223.1	nitric-oxide reductase large subunit	Neptunomonas qingdaonensis	Gammaproteobacteria	88%	95%	117	2.00E-29
	WP_056199587.1	nitric-oxide reductase large subunit	Pelomonas sp. Root1237	Betaproteobacteria	91%	96%	129	3.10E-32
	WP_061501295.1	nitric-oxide reductase large subunit	Ramlibacter tataouinensis	Betaproteobacteria	86%	93%	162	2.10E-43
3	WP_015593973.1	nitric-oxide reductase large subunit	Bacillus sp. 1NLA3E	Firmicutes	79%	95%	145	8.10E-38
	WP_095416076.1	nitric-oxide reductase large subunit	Thermogutta terrifontis	Planctomycetes	78%	84%	140	6.10E-36
	SFJ22002.1	nitric oxide reductase, NorZ apoprotein	Desulfomicrobium apsheronum	Deltaproteobacteria	76%	71%	92.4	4.00E-20
	OWY70179.1	nitric oxide reductase large subunit	cyanobacterium TDX16	Cyanobacteria	82%	88%	129	4.10E-32
	WP_088535735.1	nitric-oxide reductase large subunit	Geobacter sp. DSM 9736	Deltaproteobacteria	67%	74%	71.2	1.10E-11