Table S6.Taxonomic assignments of *nirS* Cluster I and *qnorB* transcripts based on cloning analysis.

	Class	Genus	No. of seqs
nirS Cluster I	*Alphaproteobacteria*	*Bradyrhizobium*	6
		Magnetospirillum	1
		Thalassospira	2
		Rickettsia	1
	Betaproteobacteria	Unclassified *Betaproteobacteria*	13
		Unclassified *Burkholderiales*	31
		Acidovorax	1
		Curvibacter	1
		Ottowia	1
		Herbaspirillum	1
		Noviherbaspirillum	2
		Aquabaterium	1
		unclassified *Gallionellales*	3
		Sideroxydans	2
		unclassified *Rhodocyclales*	2
		unclassified *Rhodocyclaceae*	1
		Zoogloea	1
		Candidatus Accumulibacter	9
	Gammaproteobacteria	Unclassified *Gammaproteobacteria*	4
		Candidatus Competibacter	1
		Sedimenticola	1
		Steroidobacter	8
		unclassified *Xanthomonadaceae*	1
		Rhodanobacter	1
	Uncultured Bacteria		1
qnorB	*Acidobacteria*	*Acidobacteriaceae*	1
		Acidobacterium	1
		Candidatus Koribacter	13
		Candidatus Solibacter	6
	Bacteroidetes	Unclassified *Bacteroidetes*	7
		Draconibacterium	3
		Capnocytophaga	1
		Chryseobacterium	1
	Betaproteobacteria	*Methylobacillus*	1
		Cupriavidus	1
	Gammaproteobacteria	*Pseudomonas*	4
		Unclassified *Gammaproteobacteria*	1
		Arenimonas	1
	Deltaproteobacteria	*Anaeromyxobacter*	1
		Bdellovibrionales	6
		Desulforhapalus	2
		Sorangium	5
		Syntrophobacter	1
	Chlorobi	*Ignavibacteriales*	6
	Cyanobacteria	*Cyanobacterium*	8
	Firmicutes	*Bacillus*	9
	Planctomycetes	*Gemmata*	5
		Singulisphaera	1
	Candidate division	*Omnitrophica*	1
		Bacterium BRH c32	2