	Process/Gene type	Gene
		mtrA
	Iron/manganese reduction	mtrC
		cyc1
		cyc2
		cyt 572
		cymA
Iron/Manganese		
	Iron/manganese oxidation	mtoA
		mtoB
		foxE
		foxY
		foxZ
	Culfide evidation	fcc
	Sulfide oxidation	sqr
	Sulfite reduction	dsrD
		dsrA
	Sulfur oxidation	dsrB
		dsrL
	Sulfur oxidation	dsrE
		dsrF
		dsrH
Sulfur		sor
]		301
		soxB
	Thiosulfate oxidation	soxY
	Thiosulate Oxidation	soxC
		SUAC
		asrA
	Sulfate reduction	asrB
	Sullate reduction	
		asrC
	This sulfate diangeneric nation	nho A
	Thiosulfate disproportionation	phsA
	FeFe hydrogenase	Group B1/B3
	. o. oya. ogonaoo	Group A
		Gloup A
		Group 1
		Group 2a
Hydrogen		Group 2b
		Group 3a
	Ni-Fe Hydrogenase	Group 3b
		Group 3d
1		Group 3d Group 4
		Group 4
_		pmoA
Methane	Methane oxidation - Partculate methane monooxygenase	pmoB
1	Mediane oxidation - reliculate methane monoxygenase	pmoC
		μπου
 		
		nxrA
1	Nitrite oxidation	nxrB
1		
		napA
1		napB
	Nitrate reduction	·
		narA
1		narB
		narD
1		
		narG
		narG
Nitrogen		nrfA
Nitrogen	Nitrite reduction	
Nitrogen	Nitrite reduction	nrfA nrfD
Nitrogen	Nitrite reduction	nrfA nrfD nirB
Nitrogen	Nitrite reduction	nrfA nrfD

	Nitric oxide reduction Nitrous oxide reduction	norB norC nosD nosZ nosF nosY
Oxygen	Oxygen metabolism - cytochrome c oxidase, caa3-type	CoxA CoxB
C1 compounds	Formate oxidation	formate dehydrogenase, alpha subunit formate dehydrogenase, beta subunit formate dehydrogenase, gamma subunit fhcD fae
Carbon monoxide	CO oxidation	coxS coxM coxL
	Halogenated compounds breakdown	redH
Halogenated compounds	Perchlorate reduction	pcrA pcrB