

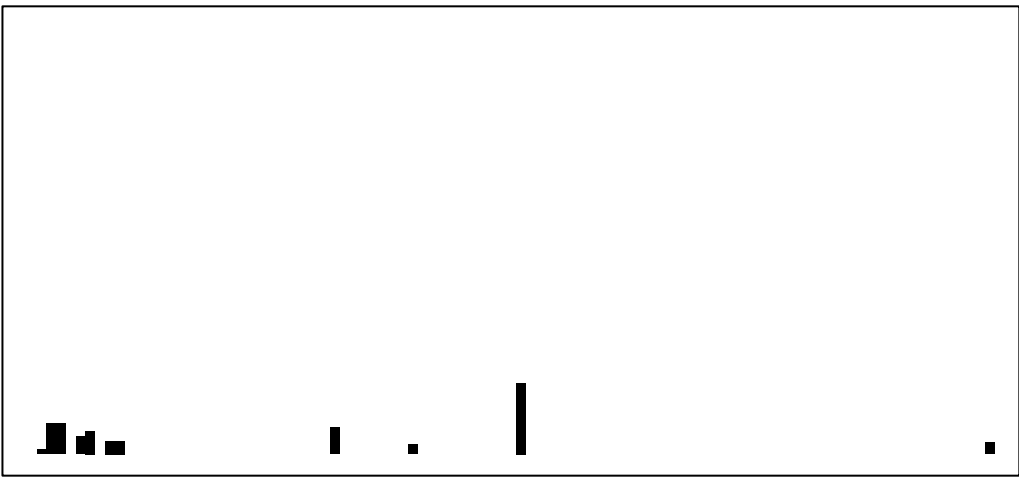
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Nitrosomonas ureae

Nitrosomonadaceae

Nitrosomonadales

78.1



Nitrosomonas ureae strain Nm10, complete genome	CP013341	78.1	99.53	2.32617e-39	Nitrosomonadales	Nitrosomonadaceae	Nitrosomonas ureae
Serpulidae sp. BOLD:AAG0874 voucher BIOUG<CAN>:WS0	HM417793	80.22	86.26	9.89113e-38	Sabellida	Serpulidae	Serpulidae sp. BOLD:AAG0874
Spirorbis sp. CMC02 voucher BIOUG<CAN>:HUNTSPOL020	HQ024246	81.44	79.15	4.20581e-36	Sabellida	Serpulidae	Spirorbis sp. CMC02
Spirorbis sp. CMC02 voucher BIOUG<CAN>:HUNTSPOL020	HQ024245	81.44	79.15	4.20581e-36	Sabellida	Serpulidae	Spirorbis sp. CMC02
Nitrosomonas sp. AL212, complete genome	CP002552	77.36	99.53	4.20581e-36	Nitrosomonadales	Nitrosomonadaceae	Nitrosomonas sp. AL212
Spirorbis sp. CMC02 voucher BIOUG<CAN>:HUNTSPOL020	HQ024247	80.84	79.15	5.12373e-35	Sabellida	Serpulidae	Spirorbis sp. CMC02
Protula pacifica voucher BIOUG<CAN>:BAMPOL0473 cyt	HM473658	81.1	77.73	1.78836e-34	Sabellida	Serpulidae	Protula pacifica
Neanthes sp. RP2011-N cytochrome oxidase subunit I	JX866607	77.84	87.68	2.65416e-32	Phyllodocida	Nereididae	Neanthes sp. RP2011-N
Spirorbis sp. CMC01 voucher BIOUG<CAN>:HUNTSPOL020	HQ024244	80.62	75.83	2.65416e-32	Sabellida	Serpulidae	Spirorbis sp. CMC01
Spirorbis sp. CMC01 voucher BIOUG<CAN>:HUNTSPOL020	HQ024243	80.62	75.83	2.65416e-32	Sabellida	Serpulidae	Spirorbis sp. CMC01
Protolaeospira eximia voucher BIOUG<CAN>:BAMPOL046	HM473657	79.88	77.73	9.26392e-32	Sabellida	Serpulidae	Protolaeospira eximia
Protolaeospira eximia voucher BIOUG<CAN>:BAMPOL046	HM473656	79.88	77.73	9.26392e-32	Sabellida	Serpulidae	Protolaeospira eximia
Protolaeospira eximia voucher BIOUG<CAN>:BAMPOL046	HM473655	79.88	77.73	9.26392e-32	Sabellida	Serpulidae	Protolaeospira eximia
Polynucleobacter necessarius subsp. necessarius ST	CP001010	79.1	83.41	3.23343e-31	Burkholderiales	Burkholderiaceae	Polynucleobacter necessarius subsp. necessarius STIR1
Nitrosomonas communis strain Nm2, complete genome	CP011451	77.65	84.83	1.12858e-30	Nitrosomonadales	Nitrosomonadaceae	Nitrosomonas communis
Nitrosomonas sp. Is79A3, complete genome	CP002876	75.24	97.63	3.93912e-30	Nitrosomonadales	Nitrosomonadaceae	Nitrosomonas sp. Is79A3
Methylotenera versatilis 301, complete genome	CP002056	75.36	99.53	1.37489e-29	Methylophilales	Methylophilaceae	Methylotenera versatilis 301
Polynucleobacter asymbioticus QLW-P1DMWA-1, comple	CP000655	77.27	83.41	4.79883e-29	Burkholderiales	Burkholderiaceae	Polynucleobacter asymbioticus QLW-P1DMWA-1
Nitrosomonas europaea ATCC 19718, complete genome	AL954747	76.5	86.73	1.67496e-28	Nitrosomonadales	Nitrosomonadaceae	Nitrosomonas europaea ATCC 19718
Uncultured organism isolate Los Vilos_40 cytochrom	FJ541283	74.26	95.73	7.1221e-27	Enterogona	Cionidae	uncultured organism
Uncultured organism isolate Constitucion_16 cytoch	FJ541282	74.26	95.73	7.1221e-27			uncultured organism
Uncultured organism isolate Constitucion_12 cytoch	FJ541280	74.26	95.73	7.1221e-27			uncultured organism
Uncultured organism isolate Constitucion_24 cytoch	FJ541278	74.26	95.73	7.1221e-27			uncultured organism
Uncultured organism isolate Constitucion_21 cytoch	FJ541275	74.26	95.73	7.1221e-27			uncultured organism
Uncultured organism isolate Constitucion_13 cytoch	FJ541274	74.26	95.73	7.1221e-27			uncultured organism
Uncultured organism isolate Chipana_1 cytochrome o	FJ541273	74.26	95.73	7.1221e-27			uncultured organism
Ciona intestinalis cytochrome oxidase subunit I mi	AY116597	77.98	79.15	7.1221e-27			Ciona intestinalis
Uncultured organism isolate Constitucion_8 cytochr	FJ541277	73.76	95.73	3.02839e-25			uncultured organism
Methylophilales bacterium MBRSG12 genome	CP011003	77.56	73.93	1.05701e-24	Methylophilales		Methylophilales bacterium MBRSG12
Methylophilales bacterium MBRSH7 genome	CP011002	77.56	73.93	1.05701e-24	Methylophilales		Methylophilales bacterium MBRSH7
Methylophilales bacterium MBRSF5 genome	CP011001	77.56	73.93	1.05701e-24	Methylophilales		Methylophilales bacterium MBRSF5
Spongiibacter sp. IMCC21906, complete genome	CP011477	81.25	60.66	1.05701e-24	Cellvibrionales	Spongiibacteraceae	Spongiibacter sp. IMCC21906
Beta proteobacterium CB, complete genome	CP004348	76.51	78.67	1.05701e-24			beta proteobacterium CB
Cycloclasticus zancles 78-ME, complete genome	CP005996	76.05	79.15	3.68934e-24	Thiotrichales	Piscirickettsiaceae	Cycloclasticus zancles 78-ME
Cycloclasticus sp. P1, complete genome	CP003230	76.05	79.15	3.68934e-24	Thiotrichales	Piscirickettsiaceae	Cycloclasticus sp. P1
Uncultured gamma proteobacterium clone SW002 cytoc	FJ868208	79.85	63.51	1.28771e-23	Enterogona	Didemnidae	uncultured gamma proteobacterium
Didemnum candidum isolate GAPB2 cytochrome c oxida	KJ725168	75.76	78.2	4.49453e-23	Enterogona	Didemnidae	Didemnum candidum
Didemnum candidum isolate GAAASC13 cytochrome c oxi	KJ725164	75.76	78.2	4.49453e-23	Enterogona	Didemnidae	Didemnum candidum
Nitrosomonas eutropha C91, complete genome	CP000450	74.32	86.73	4.49453e-23	Nitrosomonadales	Nitrosomonadaceae	Nitrosomonas eutropha C91
Saccharophagus degradans 2-40, complete genome	CP000282	80.47	60.66	4.49453e-23	Cellvibrionales	Cellvibrionaceae	Saccharophagus degradans 2-40
Didemnum candidum cytochrome oxidase subunit I gen	AY116602	75.76	78.2	4.49453e-23	Enterogona	Didemnidae	Didemnum candidum
Collimonas arenae strain Cal35, complete genome	CP009962	75.61	77.73	1.56875e-22	Burkholderiales	Oxalobacteraceae	Collimonas arenae
Glaciecola psychrophila 170, complete genome	CP003837	75.61	77.73	1.56875e-22	Alteromonadales	Alteromonadaceae	Paraglaciecola psychrophila 170
Limnohabitans sp. 103DPR2, complete genome	CP011834	75.3	78.67	5.47546e-22	Burkholderiales	Comamonadaceae	Limnohabitans sp. 103DPR2
Polynucleobacter duraquae strain MWH-MoK4, complet	CP007501	74.43	83.41	5.47546e-22	Burkholderiales	Burkholderiaceae	Polynucleobacter duraquae
Gyнуella sunshinyii YC6258, complete genome	CP007142	75.78	76.3	5.47546e-22	Oceanospirillales	Saccharospirillaceae	Gyнуella sunshinyii YC6258
Alteromonas macleodii str. 'English Channel 673',	CP003844	78.26	65.4	5.47546e-22	Alteromonadales	Alteromonadaceae	Alteromonas macleodii str. 'English Channel 673'
Uncultured organism isolate Algarrobo_3 cytochrome	FJ541272	72.12	98.58	5.47546e-22			uncultured organism
Uncultured organism isolate Algarrobo_2 cytochrome	FJ541271	72.12	98.58	5.47546e-22			uncultured organism
Uncultured organism isolate Algarrobo_1 cytochrome	FJ541270	72.12	98.58	5.47546e-22			uncultured organism
Eurythenes gryllus clone EG_SacII_40 cytochrome ox	AY830420	83.33	51.18	5.47546e-22	Amphipoda	Lysianassidae	Eurythenes gryllus
Microbulbifer thermotolerans strain DAU221, comple	CP014864	76.13	73.46	1.91112e-21	Cellvibrionales	Microbulbiferaceae	Microbulbifer thermotolerans
Methylophilus sp. TWE2, complete genome	CP012020	71.98	98.1	1.91112e-21	Methylophilales	Methylophilaceae	Methylophilus sp. TWE2
Insecta sp. SHSY141205 cytochrome oxidase subunit	KU720137	74.7	78.67	6.67048e-21			Insecta sp. SHSY141205
Collimonas arenae strain Ter282, complete genome	CP013235	74.7	78.67	6.67048e-21	Burkholderiales	Oxalobacteraceae	Collimonas arenae
Collimonas pratensis strain Ter91, complete genome	CP013234	75	77.73	6.67048e-21	Burkholderiales	Oxalobacteraceae	Collimonas pratensis
Collimonas arenae strain Ter10, complete genome	CP013233	74.7	78.67	6.67048e-21	Burkholderiales	Oxalobacteraceae	Collimonas arenae
Pseudohongiella spirulinae strain KCTC 32221, comp	CP013189	75.16	76.3	6.67048e-21			Pseudohongiella spirulinae
Limnohabitans sp. 63ED37-2, complete genome	CP011774	74.7	78.67	6.67048e-21			Limnohabitans sp. 63ED37-2
Desmosomatidae sp. NB-Iso234 cytochrome oxidase su	KJ736166	79.37	59.72	6.67048e-21	Burkholderiales	Comamonadaceae	Desmosomatidae sp. NB-Iso234
Marinobacter salarius strain R9SW1, complete genom	CP007152	77.08	68.25	6.67048e-21	Isopoda	Desmosomatidae	Marinobacter salarius
Hermিনিimonas arsenicoxydans chromosome, complete	CU207211	74.7	78.67	6.67048e-21	Alteromonadales	Alteromonadaceae	Hermিনিimonas arsenicoxydans
Alteromonas macleodii strain HOT1A3, complete geno	CP012202	77.54	65.4	2.32823e-20	Burkholderiales	Oxalobacteraceae	Alteromonas macleodii
Alteromonas macleodii strain D7, complete genome	CP014323	77.54	65.4	2.32823e-20	Alteromonadales	Alteromonadaceae	Alteromonas macleodii
Nitrosospira briensis C-128, complete genome	CP012371	73.91	86.73	2.32823e-20	Nitrosomonadales	Nitrosomonadaceae	Nitrosospira briensis C-128
Didemnum candidum isolate GAPB3 cytochrome c oxida	KJ725169	74.55	78.2	2.32823e-20	Enterogona	Didemnidae	Didemnum candidum
Alteromonas macleodii str. 'Balearic Sea AD45', co	CP003873	77.54	65.4	2.32823e-20	Alteromonadales	Alteromonadaceae	Alteromonas macleodii str. 'Balearic Sea AD45'
Alteromonas macleodii str. 'Black Sea 11', complet	CP003845	75.48	73.46	2.32823e-20	Alteromonadales	Alteromonadaceae	Alteromonas macleodii str. 'Black Sea 11'
Alteromonas macleodii ATCC 27126, complete genome	CP003841	77.54	65.4	2.32823e-20	Alteromonadales	Alteromonadaceae	Alteromonas macleodii ATCC 27126
Marinobacter sp. BSs20148, complete genome	CP003735	74.55	78.2	2.32823e-20	Alteromonadales	Alteromonadaceae	Marinobacter sp. BSs20148
Collimonas pratensis strain Ter291, complete genom	CP013236	74.39	77.73	8.1263e-20	Burkholderiales	Oxalobacteraceae	Collimonas pratensis
Marinobacter psychrophilus strain 20041, complete	CP011494	74.69	76.78	8.1263e-20	Alteromonadales	Alteromonadaceae	Marinobacter psychrophilus
Polychaeta sp. EBS61o-Po36 cytochrome oxidase subu	KJ736175	74.7	78.67	8.1263e-20			Polychaeta sp. EBS61o-Po36
Legionella hackeliae genome assembly LHA, chromoso	LN681225	74.39	77.73	8.1263e-20	Legionellales	Legionellaceae	Legionella hackeliae
Simidiua agarivorans SA1 = DSM 21679, complete gen	CP003746	77.61	63.51	8.1263e-20	Cellvibrionales	Cellvibrionaceae	Simidiua agarivorans SA1 = DSM 21679
Marinobacter aquaeolei VT8, complete genome	CP000514	74.69	76.78	8.1263e-20	Alteromonadales	Alteromonadaceae	Marinobacter aquaeolei VT8
Cnemidocarpa verrucosa mitochondrial partial COI g	AJ830012	79.03	58.77	8.1263e-20	Stolidobranchia	Styelidae	Cnemidocarpa verrucosa
Pseudomonas fluorescens strain LBUM636, complete g	CP012400	78.12	60.66	2.83636e-19	Pseudomonadales	Pseudomonadaceae	Pseudomonas fluorescens
Alteromonas sp. SN2, complete genome	CP002339	74.53	76.3	2.83636e-19	Alteromonadales	Alteromonadaceae	Alteromonas naphthalenivorans
Uncultured gamma proteobacterium clone SW004 cytoc	FJ868209	74.53	76.3	2.83636e-19			uncultured gamma proteobacterium
Teredinibacter turnerae T7901, complete genome	CP001614	74.1	78.67	2.83636e-19	Cellvibrionales	Cellvibrionaceae	Teredinibacter turnerae T7901
Phascolosoma esculenta cytochrome c oxidase subuni	EF521190	73.81	79.62	2.83636e-19	Phascolosomatiformes	Phascolosomatidae	Phascolosoma esculenta
Pseudoalteromonas atlantica T6c, complete genome	CP000388	73.81	79.62	2.83636e-19	Alteromonadales	Pseudoalteromonadaceae	Pseudoalteromonas atlantica T6c
Methylomonas sp. DH-1, complete genome	CP014360	78.69	57.82	9.89987e-19	Methylococcales	Methylococcaceae	Methylomonas sp. DH-1
Halomonas sp. R57-5 genome assembly HalomonasR57-5	LN813019	76.64	64.93	9.89987e-19	Oceanospirillales	Halomonadaceae	Halomonas sp. R57-5
Didemnum candidum isolate GAPB4 cytochrome c oxida	KJ725170	73.94	78.2	9.89987e-19	Enterogona	Didemnidae	Didemnum candidum
Marinobacter hydrocarbonoclasticus str. ATCC 49840	FO203363	74.07	76.78	9.89987e-19	Alteromonadales	Alteromonadaceae	Marinobacter hydrocarbonoclasticus ATCC 49840
Pseudomonas sp. JY-Q, complete genome	CP011525	78.99	56.4	3.45539e-18	Alteromonadales	Pseudomonadaceae	Pseudomonas sp. JY-Q
Pseudomonas putida SJTE-1, complete genome	CP015876	78.99	56.4	3.45539e-18	Pseudomonadales	Pseudomonadaceae	Pseudomonas putida SJTE-1
Pseudomonas putida B6-2, complete genome	CP015202	78.99	56.4	3.45539e-18	Pseudomonadales	Pseudomonadaceae	Pseudomonas putida B6-2
Zhongshania aliphaticivorans strain SM2, complete	CP014544	77.14	65.88	3.45539e-18	Spongiibacteriales	Spongiibacteraceae	Zhongshania aliphaticivorans
Polychaeta sp. OPC-2015 cytochrome c oxidase subun	KT334230	73.49	78.67	3.45539e-18			Polychaeta sp. OPC-2015
Pseudomonas putida S12, complete genome	CP009974	78.99	56.4	3.45539e-18	Pseudomonadales	Pseudomonadaceae	Pseudomonas putida S12
Pseudomonas putida DOT-T1E, complete genome	CP003734	78.99	56.4	3.45539e-18	Pseudomonadales	Pseudomonadaceae	Pseudomonas putida DOT-T1E
Pseudomonas putida ND6, complete genome	CP003588	78.99	56.4	3.45539e-18	Pseudomonadales	Pseudomonadaceae	Pseudomonas putida ND6
Pseudomonas putida BIRD-1, complete genome	CP002290	78.99	56.4	3.45539e-18	Pseudomonadales	Pseudomonadaceae	Pseudomonas putida BIRD-1
Pseudomonas putida F1, complete genome	CP000712	78.99	56.4	3.45539e-18	Pseudomonadales	Pseudomonadaceae	Pseudomonas putida F1
Bankia carinata cytochrome oxidase 1 (COI) gene, p	AF120671	77.1	62.09	3.45539e-18	Myoida	Teredinidae	Bankia carinata
Vibrio natriegens strain CCUG 16374 chromosome 2,	CP016352	80.56	51.18	1.20605e-17	Vibrionales	Vibrionaceae	Vibrio natriegens
Polynucleobacter sp. QLW-P1FAT50C-4 genome	CP015922	73.45	83.41	1.20605e-17	Burkholderiales	Burkholderiaceae	Polynucleobacter sp. QLW-P1FAT50C-4