

100

Ammonia-oxidizing archaea

Comammox Clade A

Comammox Clade B

Uncultured bacterium clone 9 682 5 (DQ008369)
Ca. Nitrospira nitrificans (CZPZ01000000)
 Uncultured bacterium clone B7233-77 (AJ564440)
 Uncultured Crenothrix sp. clone AW-a (DQ984193)
Nitrospira sp. CG24_B
Nitrospira sp. Ga0074138 (LNDU00000000)
 Uncultured bacterium Clone PS.N.2 (AB222896)
 Uncultured methanotrophic bacterium clone 454-Crenothrix (KP218998)
Ca. Nitrospira inopinata (NZ LN885086)
 WWTP a Lieshout clone 4 (JF706214)
***Nitrospira* sp. UW-LDO-01**
Ca. Nitrospira nitrosa (CZQA01000000) amoA1
Ca. Nitrospira nitrosa (CZQA01000000) amoA2
 Uncultured methanotrophic bacterium clone V133 (KC844913)
 Uncultured bacterium clone S3A-113 (AJ515373)
Nitrospira sp. CG24_A
 Uncultured bacterium clone WP1AD9 (FN395327)
 Uncultured bacterium clone Mid HT 62 56 1 2 30 (FJ529752)
 Uncultured bacterium isolate DGGE band KM1b-e (AJ868245)
 Uncultured bacterium WP1AD10 (FN395328)
Nitrospira sp. CG24_C
Nitrospira sp. CG24_E

87
***Nitrosospira* lineage**

Nitrosomonas communis strain Nm2 (NZ CP011451)
Nitrosomonas nitrosa (FOUF01000000)
Nitrosomonas halophila strain Nm1 (FNOY01000000)
Nitrosomonas europaea ATCC 19718 (AL954744)
Nitrosomonas sp. TK794 (AB031869)
Nitrosomonas eutropha C91, (NC 008344)
Nitrosomonas sp. GH22 (AF327917)
Nitrosomonas cryotolerans (AF314753)
Nitrosomonas aestuarii strain Nm69 (FOSP00000000)
Nitrosomonas sp. JL21 (AF327919)
D100 - Contig 13731/222-1045
Nitrosomonas oligotropha strain Nm75 (FNOE01000000)
Nitrosomonas sp. IS79A3 (CP002876)
Nitrosomonas sp. AL212 (AF327918)
Nitrosomonas ureae strain Nm10 (CP013341)

55
 pmoA
***Nitrosococcus* lineage**

100

51

82

100

81

31

72

100

92

100

100

71

63

50

36

56

39

58

71

91

72

58

96

100

100

55

100

