Tree scale: 0.1

Methanosarcinales archaeon ex4572-44 17627669
Methanosarcinales archaeon ex4484-138 17623544
Candidatus Bathyarchaeota archaeon BA2 17395850
Candidatus Bathyarchaeota archaeon BA1 17400060
Candidatus Syntrophoarchaeum caldarius.140 17412363
Candidatus Syntrophoarchaeum butanivorans 17416869
Candidatus Syntrophoarchaeum caldarius 17414013

GoM Arc I "*Ca*. Argoarchaeum"

"*Ca*. Syntrophoarchaeum"

ADG63246.1 ADG63246.1
ADG63248.1 ADG63248.1
ADG63255.1 ADG63255.1
AFZ40000.1 AFZ40000.1
AAW31862.1 AAW31862.1
BAJ05287.1 BAJ05287.1
ACR61606.1 ACR61606.1
AAW80301.1 AAW80301.1
ACD65225.1 ACD65225.1
ANME SA 17484108
CCB80965.1 CCB80965.1
ADG63256.1 ADG63256.1
ANME GB60 17620636
ANME ERB6.136 4002260
ANME SCGC AAA252-L18 4028193
ANME GoMg4 17614351
ANME GoMg1 17604822
ANME-1 cluster archaeon ex4572-4 17626375
ANME ERB6.158 4004850
ANME ERB6.94 4016522
ANME ERB7.60 4012118
ANME ERB7.88 4010368
ANME ERB7 4006406
ANME CONS3730B06UFb1 10668818
4024483 4024483
ANME Meyerdierks.98 3970449
ANME CONS3730MDAH03UFb1 10665395
ANME CONS3730H04p2b1 17375281

ANME-1 "*Ca*. Methanophagaceae"

Methanopyrus kandleri AV19 3847419

ANME HMMV-459B1 17639313
AMM45242.1 AMM45242.1
AMM45214.1 AMM45214.1
AMM45235.1 AMM45235.1
AMM45216.1 AMM45216.1
ANME ERB4.96 4013122
AMM45246.1 AMM45246.1
AMM45251.1 AMM45251.1
AMM45226.1 AMM45226.1
AMM45228.1 AMM45228.1
AMM45248.1 AMM45248.1
ANME E20 17618186
ANME COP1 17497378
ACJ11631.1 ACJ11631.1
ANME ERB4.63 4002916
AMM45224.1 AMM45224.1
ANME ERB4 4006967
AMM45245.1 AMM45245.1
ANME ERB4.57 3999824
AMM45234.1 AMM45234.1
AMM45211.1 AMM45211.1

ANME-2c "*Ca*. Methanogasteraceae"

Methermicoccus shengliensis DSM 18856 17631162
AFD09544.1 AFD09544.1
Candidatus Methanoperedens sp. BLZ1 3945512
ALI93536.1 ALI93536.1
Candidatus Methanoperedens nitroreducens 3953778
CCB80958.1 CCB80958.1
AGW27161.1 AGW27161.1

ANME-2d "*Ca*. Methanoperedens"

BAD16562.1 BAD16562.1
AFZ40001.1 AFZ40001.1
CAQ03819.1 CAQ03819.1
ANME HR1 3870838

ANME-2b "*Ca*. Methanomarinus"

CAL58673.1 CAL58673.1
AMM45220.1 AMM45220.1
AMM45221.1 AMM45221.1
AMM45206.1 AMM45206.1
ANME S7142MS1 17498721
ANME CONS7142G09b1 17325075
AMM45210.1 AMM45210.1
ANME HMMV-459B4 17641167
ANME Wang 3975139
ABZ82077.1 ABZ82077.1

ANME-2a "*Ca*. Methanocomedens"

ANME HMMV 17493374
CAL58676.1 CAL58676.1
ANME HMMV2 17500473
CAL58674.1 CAL58674.1
CAL58675.1 CAL58675.1

ANME-3 "*Ca*. Methanovorans"