```
           ┌ HA5 Reservoir EMIRGE 16S rRNA
       66 ─┤
           └ Methanohalophilus euhalobius 16S rRNA (ENA|SMMS01000001.1)
           ┌ MD1 Reservoir EMIRGE 16S rRNA
           ├ HA3 Reservoir EMIRGE 16S rRNA
   100 58 ─┤ HA6 Reservoir EMIRGE 16S rRNA
           ├ Methanohalophilus mahii DSM 5219 16S rRNA (NR 074239.1)
           ┌ Methanohalophilus sp. RSK 16S rRNA RNA (ENA|RDSK01000008.1)
        39 ┤ Methanohalophilus halophilus INMI Z-7982 16S rRNA (NR 104736.1)
           └ Methanohalophilus portucalensis 16S rRNA (ENA|CP017881.1)
             Methanohalophilus levihalophilus strain GTA13 16S rRNA (NR 125474.1)
             Uncultured ANME-2 cluster archaeon clone 3730p3a-F9a-A10 16S rRNA (MH828295.1)
             Archaeoglobus sulfaticallidus PM70-1 16S rRNA (NR 103948.1)
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├─────┤
  0.020

Supplementary Figure 1: 16S rRNA gene phylogeny based on EMIRGE reconstruction. Only long sequences are used in this maximum likelihood tree, so not every reservoir is represented. The tree was created in MEGA 7 using default parameters., with 500 bootstrap replicates.