



Figure S1. Rarefaction curve for *mcrA* clone library of non-dried methanogenic culture.

Table S1. Methanogenic gene and genus specific primers.

Target Organisms	Amplicon Size	Primer Sequence
<i>mcrA</i> gene-specific primer		
Methanogens (Luton et al., 2002)	470bp	F-5'- GTGGTGTMGGATTCACACARTAYGCWACAGC R-5'-TTCATTGCRTAGTTWGGRTAGTT
<i>16S rRNA</i> genus specific primers		
<i>Methanospirillum</i> (Rowe et al., 2008)	122bp	F-5'-AGTAACACGTGGACAATCTGCCCT R-5'-ACTCATCCTGAAGCGACGGATCTT
<i>Methanoculleus</i> (Franke et al., 2009)	262bp	F-5'-GGAGCAAGAGCCCGGAGT R'-5'-CCAAGAGACTTAACAACCC
<i>Methanosaeta</i> (Rowe et al., 2008)	266bp	F-5'-GGGGTAGGGGTGAAATCTTGTAATCCT R-5'-CGGCGTTGAATCCAATTAAACCGCA
<i>Methanosarcina</i> (Franke et al., 2009)	325bp	F-5'-CCTATCAGGTAGTAGTGGGTGTAAT R-5'-CCCGGAGGACTGACCAA