

Table S5. Reads from all the samples with metatranscriptomes collected in 2013 that had reads that mapped to *narG* or *narY*, with the identity of the closest match shown as identified by MG-RAST. Sample identifiers are as follows: 4550 - five *Undinula* copepods picked from a net tow in 2013; 4570 - Preliminary Experiment from station SS#13 end time point; 4648 - Preliminary Experiment from station E3 end time point.

>4637935.3|Sample_4648.R1_contig_17258_1_226_- *Marinobacter aquaeolei* nitrate reductase, alpha subunit 96%identity, narG

TTCGCGGGCGGCCACGGCGAAACCCACGAAGTCAGTCGCGAGTGGGAAGACAGCTA
CCGCCAGCGCTGGCAGCACGACAAGATCGTGCGTTCCACCCACGGCGTGAAGTGCAC
CGGCTCCTGCAGCTGGAAGATTTACGTCAAGAACGGTCTGGTAACCTGGGAAACCCA
GCAAACCGATTACCCCCGTACCCGTCCGGACCTGCCCAACCACGAGCCACAC

>4622665.3|Sample_4550.R1_contig_2446_1_219_-*E. coli* str. K-12 substr. W3110, nitrate reductase, beta subunit, 100% identity, narY

CAGATTGATGATTACTACGAACCTTTCACCTTCGACTACGAACATTTGCATAGCGCAC
CGGAAGGCAAACATATTCCTACTGCTCGCCCGCGTTCACTGATTGACGGCAAACGGA
TGGACAAAGTGATCTGGGGGCCAAACTGGGAAGAACTGCTGGGCGGTGAGTTCGAA
AAACGTGCCCGCGACCGCAACTTCGAGGCCATGCAAAAGGAGATA

>4637930.3|Sample_4570.R1_contig_27463_1_301_- *Pseudoalteromonas lipolytica*, nitrate reductase, alpha subunit 98% identity, narG

GCTGGTCACGGTGTTACCACTGATGAAAATCGCGATTGGGAAGACAGTTATCGCCGC
CGCTGGCAGCACGATAAAATTGTCCGTTCTGACTCATGGAGTGAAGTGTACCGGTTCT
TGTAAGCTGGAAAATTTACGTCAAAGACGGACTTGTTACTTGGGAAACGCAGCAAACC
GATTACCCCGTACTCGCCAGACTTACCAAACCATGAACCTCGCGGCTGTCTCTCGCG
GTGCTAGCTACTCATGGTACATCTATAGTGCAAACCGTCTTAAGCACCCCTAAAGTTC
GCCAAGCGCTAT