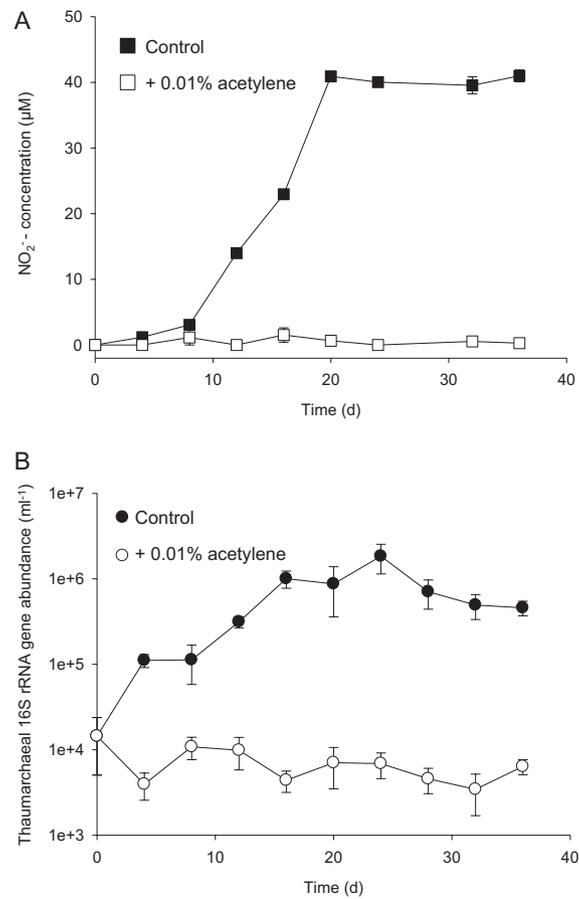
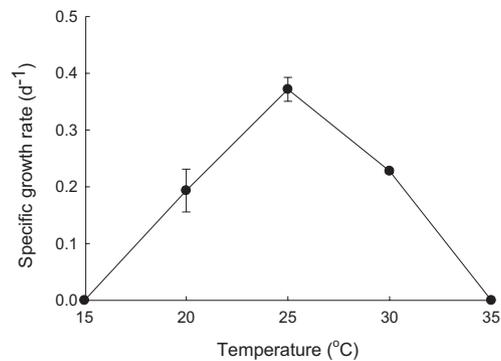


# Supporting Information

Lehtovirta-Morley et al. 10.1073/pnas.1107196108



**Fig. S1.** Effect of acetylene on thaumarchaeal ammonia oxidation. Changes in (A) nitrite concentration and (B) thaumarchaeal 16S rRNA gene abundance in inorganic medium, pH 4.5, containing 500 µM ammonium in the presence and absence of 0.01% (10 Pa) acetylene. Data are presented as mean and SE of triplicate cultures for all growth experiments.



**Fig. S2.** Effect of temperature on thaumarchaeal growth. Specific growth rate was determined from increases in nitrite concentration during exponential growth of the thaumarchaeal enrichment during growth in inorganic liquid medium at pH 4.5 and containing 500 µM ammonium. Data are presented as mean and SE of triplicate cultures.

