

Description of Additional Supplementary Files:

Supplementary Data 1 | Key features of the metagenome (short-read and long-read sequencing) and metatranscriptome datasets generated for the enrichment culture, and the 59 draft genomes recovered from the metagenomic data ($\geq 70\%$ completeness and $\leq 10\%$ contamination). Assessments of the genomes were based on the CheckM program.

Supplementary Data 2 | Genes encoding enzymes for propane activation and complete oxidation in '*Ca. A. nitratireducens*'.