Here we present the draft genome of *Synergistes jonesii 78-1*, ATCC 49833, a member of the *Synergistes* phylum. This organism was isolated from the rumen of a Hawaiian goat and ferments pyridinediols. The assembly contains 2,747,397 bp in 61 contigs.

Nucleotide sequence accession numbers. This whole-genome shotgun project has been deposited at DDBJ/EMBL/GenBank under the accession number JMKI00000000. The version described in this paper is version JMKI01000000. Complete Illumina reads have been deposited at the European Nucleotide Archive (ENA) with the accession number PRJEB6249. Sanger quality files are available at [http://dx.doi.org/10.6084/m9.figshare.1009730](http://dx.doi.org/10.6084/m9.figshare.1009730) and Sanger reads are available at [http://dx.doi.org/10.6084/m9.figshare.1009729](http://dx.doi.org/10.6084/m9.figshare.1009729).

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