Fervidicella metallireducens strain AeB<sup>T</sup> (= KCTC 5667<sup>T</sup> = JCM 15555<sup>T</sup>) was isolated from a grey microbial mat colonizing the free-flowing waters of a bore well in the Great Artesian Basin of Australia (1). The strain was cultured in a Trypticase yeast extract glucose medium under optimal conditions (pH 7.0 and 70°C). The cells were centrifuged, and the DNA from the cell pellet was purified using a modification of the Marmur method (2). The genomic DNA of F. metallireducens strain AeB<sup>T</sup>, sequenced using an Ion Torrent PGM sequencer and a 318 Chip at the Australian Genome Research Facility (AGRF) core facility, generated 1,212,514 reads totaling 235 Mbp. Genome assembly using the GS Assembler (version 2.9) generated a total of 164 contigs (70× coverage). The assembled data of 2.9 Mbp, with an average G+C content of 32.04 mol%, were analyzed using the online annotation server RAST (3), and automatic gene annotation was carried out by the NCBI Prokaryotic Genomes Automatic Annotation Pipeline (PGAAP) (http://www.ncbi.nlm.nih.gov/genomes/static/Pipeline.html). The genome sequence comprises 2,800 putative protein-coding genes, 82 tRNA genes, and 6 rRNA genes (5S rRNA, 16S rRNA, and 23S rRNA). A limited number of genes involved in carbohydrate utilization (127) and a slightly higher number of amino acid degradation and synthesis genes (164) were identified in the genome. Genes involved in the uptake and transport of ferric ions, as well as genes for resistance to toxic ions, such as arsenic, cobalt, zinc, cadmium, copper, and zinc, were identified. Genes for protection against oxidative stress in anaerobic bacteria and genes involved in flagellar synthesis are also present. Analysis with the core gene data set of F. metallireducens strain AeB<sup>T</sup> using PhyloSift version 1.0.0_02 (4) indicated that 71% of the phylogenetic marker genes are related to members of phylum Firmicutes. Other represented phyla include Proteobacteria (15%), Actinobacteria (4%), Dictyoglomus (2%), and Spirochaetes (2%). The closest phylogenetic relatives of the phylum Firmicutes were members of family 1, Clostridiaceae, with 54% of the markers related to Caloramator australicus strain R3<sup>T</sup>, 30% to members of the genus Clostridium, and the remaining 16% to other members of the family Clostridiaceae. The draft whole-genome sequence of F. metallireducens strain AeB<sup>T</sup> will assist in understanding the physiology and adaptation of microbial life in the Great Artesian Basin of Australia, a deep geothermal subsurface multiaquifer.

**Nucleotide sequence accession numbers.** The whole-genome shotgun project of F. metallireducens strain AeB<sup>T</sup> has been deposited at DDBJ/EMBL/GenBank under the accession no. AZQP00000000. The version described in this paper is version AZQP0100000.

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**REFERENCES**