**Supporting Information:**

**Bioleaching of vanadium from** **stone coal vanadium ore by *Bacillus mucilaginosus*: influencing factors and mechanism**

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We used second-generation sequencing Illumina combined with third-generation sequencing PacBio technology to determine the genome of *Bacillus mucilaginosus*, which was preserved in the laboratory used in our study, and to functionally annotate the genome of *Bacillus mucilaginosus*. The results showed the presence of the bacterial genome of the gene encoding carbonic anhydrase, cynT, which is expressed in the cells of *Bacillus mucilaginosus*, with the gene information shown in Table S1 and the gene arrangement shown in Fig. S1.

**Table S1. Genetic information of the coding gene cynT**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Gene name | Start | End | Length (bp) | NR Description |
| cynT | 36588 | 35938 | 651 | carbonic anhydrase |



**Fig. S1. Gene arrangement of coding gene cynT**

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