Table S1 General comparative analysis of two *C. butyricum* isolates (F1-b, F5-b) and reference strain (*C. butyricum* KNU-L09)

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| --- | --- | --- | --- |
| Features | *C. butyricum* F1-b | *C. butyricum* F5-b | *C. butyricum* KNU-L09 |
| Chromosome(Accession CP033247) | Plasmid(Accession CP033246) | Chromosome(Accession CP033249) | Plasmid(Accession CP033248) | Chromosome(Accession NZ\_CP013252.1) | Plasmid(Accession NZ\_CP013489.1) |
| No. of chromosome and plasmid | 1 | 1 | 1 | 1 | 1 | 0 |
| Genome size (bp) | 3,864,433 | 882,416 | 3,864,393 | 882,389 | 3,824,894 | 803,000 |
| G+C content (%) | 28.88 | 28.51 | 28.88 | 28.51 | 28.88 | 28.30 |
| No. of predicted coding sequences (CDS) | 3,472 | 844 | 3,469 | 837 | 3912 | 721 |
| No. of rRNA operons | 36 | 0 | 36 | 0 | 33 | 0 |
| No. of tRNA operons | 87 | 0 | 87 | 0 | 87 | 0 |
| No. of CRISPR regions | 0 | 0 | 0 | 0 | 0 | 1 |