Genome ▼	Bacillus subtilis[Organism] ⊗

Bacillus subtilis
Reference genome: Bacillus subtilis subsp. subtilis str. 168
  Download sequences in FASTA format for **genome**, **protein**
  Download genome annotation in **GFF**, **GenBank** or **tabular** format
  BLAST against Bacillus subtilis **genome**, **protein**
All 255 genomes for species:
  Browse the **list**
  Download sequence and annotation from **RefSeq** or **GenBank**

Display Settings: Overview

Organism Overview ; Genome Assembly and Annotation report [**255**] ; Genome Tree report [**194**] ; Plasmid Annotation Report [**45**]   ID: 665

Bacillus subtilis
Model organism for prokaryotic cell differentiation and development

Lineage: **Bacteria[24060]**; **Firmicutes[3778]**; **Bacilli[1576]**; **Bacillales[1057]**; **Bacillaceae[467]**; **Bacillus[210]**; **Bacillus subtilis group[12]**; **Bacillus subtilis[1]**

Bacillus subtilis. This organism was one of the first bacteria studied, and was named *Vibrio subtilis* in 1835 and renamed *Bacillus subtilis* in 1872. It is one of the most well characterized bacterial organisms, and is a model system for cell differentiation and development. This soil bacterium can divide asymmetrically, producing More...

Summary

Sequence data: genome assemblies: 255; sequence reads: 23 (See Genome Assembly and Annotation report)
Statistics: median total length (Mb): 4.13814
              median protein count: 4079
              median GC%: 43.6

Publications

1. Bacillus subtilis, the model Gram-positive bacterium: 20 years of annotation refinement. Borriss R, et al. Microb Biotechnol 2018 Jan

2. Genome annotation and comparative genomic analysis of Bacillus subtilis MJ01, a new bio-degradation strain isolated from oil-contaminated soil. Rahimi T, et al. Funct Integr Genomics 2018 Sep

3. Safety assessment of Bacillus subtilis CU1 for use as a probiotic in humans. Lefevre M, et al. Regul Toxicol Pharmacol 2017 Feb

More...

Representative (genome information for reference and representative genomes)

Reference genome:
○ ⊟ *Bacillus subtilis subsp. subtilis str. 168*
    Submitter: BSNR
    Morphology: Gram:Positive, Shape:Bacilli, Motility:Yes
    Environment: OxygenReq:Facultative, OptimumTemperature:25-35, TemperatureRange:Mesophilic, Habitat:Terrestrial

Type	Name	RefSeq	INSDC	Size (Mb)	GC%	Protein	rRNA	tRNA	Other RNA	Gene	Pseudogene
Chr	-	NC_000964.3	AL009126.3	4.22	43.5	4,237	30	86	95	4,536	88

Dendrogram (based on genomic BLAST)

External Resources