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Genome assembly SolTub\_3.0

reference

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Actions

NCBI RefSeq assembly	
GCF_000226075.1 (sequences differ from GenBank assembly)	<div></div>
Submitted GenBank assembly	
GCA_000226075.1	<div></div>
Taxon	
<a href="#">Solanum tuberosum</a> (potato)	
Cultivar	
DM 1-3 516 R44	
WGS project	
<a href="#">AEWC01</a>	
Assembly type	
haploid	
Submitter	
Potato Genome Sequencing Consortium	
Date	
Sep 19, 2011	



View annotated genes



See in Genome Data Viewer



BLAST the reference genome

Assembly statistics

	RefSeq	GenBank
Genome size	705.8 Mb	705.8 Mb
Total ungapped length	663.1 Mb	663.1 Mb

	RefSeq	GenBank
Number of organelles	1	0
Number of scaffolds	14,853	14,853
Scaffold N50	1.3 Mb	1.3 Mb
Scaffold L50	160	160
Number of contigs	60,068	60,068
Contig N50	31.9 kb	31.9 kb
Contig L50	6,191	6,191
GC percent	35	35
Genome coverage	114x	114x
Assembly level	Scaffold	Scaffold
View sequences	<a href="#">view RefSeq sequences</a>	<a href="#">view GenBank sequences</a>

## Sample details

BioSample ID	<a href="#">SAMN02981305</a>
Description	Sample from Solanum tuberosum
Submitter	Beijing Genomics Institute in Shenzhen, China, Biotechnology
Cultivar	DM 1-3 516 R44
GenBank	<a href="#">AEWC00000000.1</a>
Models	Generic
Package	Generic.1.0

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## Assembly methods

Sequencing technology	Illumina GA2
Assembly method	SOAPdenovo v. 1014

### Additional genomes

[Browse all Solanum tuberosum genomes \(51\)](#)

### BioProject

# Publications

Showing 5 of 41

Nature 2011  
[Genome sequence and analysis of the tuber crop potato](#)  
Potato Genome Sequencing Consortium, et al.

Plants (Basel) 2024  
[Transcriptomics Identifies Differentially Expressed Genes Inducing Tuber Formation in Early- and Late-Maturing Potatoes](#)  
Y Ma, et al.

Sci Rep 2024  
[Differential gene expression in irradiated potato tubers contributed to sprout inhibition and quality retention during a commercial scale storage](#)  
S Kumar, et al.

Foods 2024  
[cor1 Gene: A Suitable Marker for Identification of Opium Poppy \( \*Papaver somniferum\* L.\)](#)  
E Čermáková, et al.

Data Brief 2024  
[Total mRNA sequence dataset from \*Pectobacterium atrosepticum\* colonising potato or radish roots](#)  
A Holmes, et al.

[View all 41 in PubMed](#)

Publication list limited to 400 entries

## Annotation details

[See full annotation report](#)

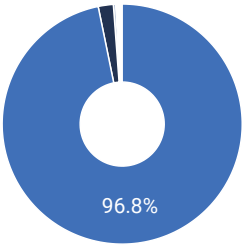
	RefSeq
Provider	NCBI RefSeq
Name	GCF_000226075.1-RS_2025_04
Date	Apr 3, 2025
Genes	32,873
Protein-coding	28,404
Software version	10.3

[View RefSeq annotation](#)

## Quality analysis

### BUSCO analysis (5.7.1)

- Single\_copy 96.8%
- Duplicated 2.0%
- Fragmented 0.3%
- Missing 0.9%



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*Note:* This scaffold-level genome assembly includes 14,853 scaffolds and no assembled chromosomes.

RefSeq and GenBank assembly differences

The NCBI RefSeq assembly differs from the submitted assembly in the following ways:

Added chromosome Pltd

Revision history

This record has not been revised

GenBank	RefSeq	Name	Level	Date	Action
GCA_000226075.1	GCF_000226075.1	SolTub_3.0	Scaffold	Sep 19, 2011	⋮

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