Genome assembly SolTub_3.0 reference

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Actions

NCBI RefSeq assembly
GCF_000226075.1 (sequences differ from GenBank assembly)

Submitted GenBank assembly
GCA_000226075.1

Taxon
Solanum tuberosum (potato)

Cultivar
DM 1-3 516 R44

WGS project
AEWC01

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	view RefSeq sequences	view GenBank sequences

Sample details

BioSample ID
SAMN02981305

Description
Sample from Solanum tuberosum

Submitter
Beijing Genomics Institute in Shenzhen, China, Biotechnology

Cultivar
DM 1-3 516 R44

GenBank
AEWC00000000.1

Models
Generic

Package
Generic.1.0

View more

Assembly methods

Sequencing technology
Illumina GA2

Assembly method
SOAPdenovo v. 1014

Additional genomes

Browse all Solanum tuberosum genomes (51)

BioProject

PRJNA63145

Solanum tuberosum strain:DM1-3 516 R44 Genome sequencing and assembly

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)

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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	⋮