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Documentation

Genome assembly Prunus_persica_NCBIv2

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	Actions
NCBI RefSeq assembly GCF_000346465.2 (sequences differ from GenBank assembly)	<div></div>
Submitted GenBank assembly GCA_000346465.2	<div></div>
Taxon Prunus persica (peach)	
Cultivar Lovell	
WGS project AKXU02	
Assembly type haploid	
Submitter PGF	
Date Feb 2, 2017	



View annotated genes



See in Genome Data Viewer




BLAST the reference genome

Assembly statistics

	RefSeq	GenBank
Genome size	227.4 Mb	227.4 Mb
Total unapped length	224.6 Mb	224.6 Mb

	RefSeq	GenBank
Number of chromosomes	8	8
Number of organelles	1	0
Number of scaffolds	191	191
Scaffold N50	27.4 Mb	27.4 Mb
Scaffold L50	4	4
Number of contigs	2,530	2,530
Contig N50	255.4 kb	255.4 kb
Contig L50	250	250
GC percent	37.5	37.5
Genome coverage	8.47x	8.47x
Assembly level	Chromosome	Chromosome
View sequences	view RefSeq sequences	view GenBank sequences

Sample details

BioSample ID	SAMN02981429
Description	Sample from Prunus persica
Submitter	US DOE Joint Genome Institute
Cultivar	Lovell
GenBank	AKXU000000000.1
Models	Generic
Package	Generic.1.0
View more 	

Assembly methods

Sequencing technology	ABI 3739
Assembly method	ARACHNE v. 20071016_modified

Additional genomes

[Browse all Prunus persica genomes \(12\)](#)

BioProject

PRJNA31227

Prunus persica

Publications

Showing 5 of 37

Nat Genet 2013

The high-quality draft genome of peach (Prunus persica) identifies unique patterns of genetic diversity, domestication and genome evolution

International Peach Genome Initiative, et al.

Mol Biol Evol 2010

Complete plastid genome sequences of three Rosids (Castanea, Prunus, Theobroma): evidence for at least two independent transfers of rpl22 to the nucleus

RK Jansen, et al.

Data Brief 2025

New coastal records in northern Brittany (Plouescat, NW France): Sedimentological, palynological and paleogenomic data over the last 7.3 ka BP

O David, et al.

Sci Data 2025

A Near Complete Genome Assembly of the Oshima Cherry Cerasus speciosa

K Fujiwara, et al.

J Fungi (Basel) 2025

Validation of Monilinia fructicola Putative Effector Genes in Different Host Peach (Prunus persica) Cultivars and Defense Response Investigation

L Landi, et al.

View all 37 in PubMed

Publication list limited to 400 entries

Annotation details

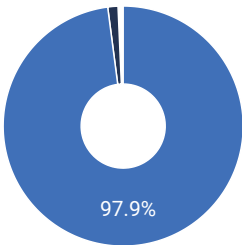
See full annotation report

	RefSeq	GenBank
Provider	NCBI RefSeq	PGF
Name	NCBI Prunus persica Annotation Release 100	Annotation submitted by PGF
Date	Mar 7, 2017	Feb 2, 2017
Genes	26,412	26,873
Protein-coding	23,135	26,873
Software version	7.3	
	View RefSeq annotation	View GenBank annotation

Quality analysis

BUSCO analysis (4.0.2)

- Single_copy 97.9%
- Duplicated 1.4%
- Fragmented 0.2%
- Missing 0.5%



eudicots_odb10 (2326)

Chromosomes



View chromosomes from:

GenBank sequence

RefSeq sequence

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Chromosome	GenBank	RefSeq	Size (bp)	GC content (%)	Unlocalized count	Action
G1	CM007651.1	NC_034009.1	47,851,208	37.5	0	<div></div>
G2	CM007652.1	NC_034010.1	30,405,870	37.5	0	<div></div>
G3	CM007653.1	NC_034011.1	27,368,013	37.5	0	<div></div>
G4	CM007654.1	NC_034012.1	25,843,236	37.5	0	<div></div>
G5	CM007655.1	NC_034013.1	18,496,696	37.5	0	<div></div>
G6	CM007656.1	NC_034014.1	30,767,194	37.5	0	<div></div>
G7	CM007657.1	NC_034015.1	22,388,614	37.5	0	<div></div>
G8	CM007658.1	NC_034016.1	22,573,980	37.5	0	<div></div>

Note: This genome assembly includes 183 unplaced scaffolds.

RefSeq and GenBank assembly differences

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

Added chromosome Pltd

Revision history

GenBank	RefSeq	Name	Level	Date	Action
GCA_000346465.2	GCF_000346465.2	Prunus_persica_NCBIv2	Chromosome	Feb 2, 2017	<div></div>
GCA_000346465.1	GCF_000346465.1	Prupe1_0	Scaffold	Mar 15, 2013	<div></div>

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