



Dicots PLAZA 5.0



Species: **Solanum tuberosum**

Common name	<i>Solanum tuberosum</i>
Cultivar/subspecies	Not available
PLAZA identifier	stu
Source	JGI v4.03
NCBI taxonomy	4113
Mitochondrion	Not available
Chloroplast	Not available
Publication	21743474
Color code	<div></div>



Description

Solanum tuberosum, better known as potato, is an important crop in temperate zones all over the world (19 million Ha of arable land are dedicated to grow potatoes). Its ability to store large amounts of starch in underground tubers makes it an excellent, energy rich food. However its susceptibility to potato blight causes considerable damages to harvests (an estimated 3 billion euro are lost due to this pest). With the potato genome, resistance genes can be identified and assist breeders in making resistant varieties.

Gene Overview

Species	Gene type(s) information				Functional annotation information	
	#Coding genes	#RNA genes	#Pseudo genes	#Transposons	#Genes with GO	#Genes with InterPro
Solanum tuberosum	39,028	0	0	0	26,173	25,567

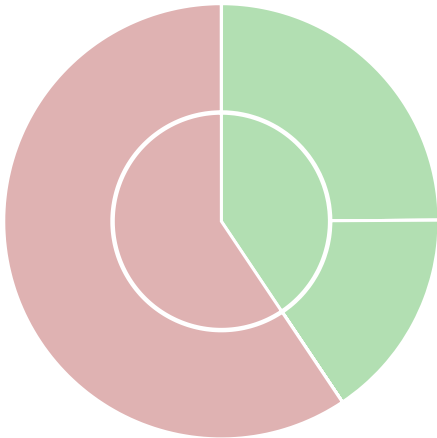
Gene Family Information

GF type	Data type	Multi-species	Species specific, multicopy	Species specific, singlecopy (orphan)
Homologous gene family	Gene Family Counts	8,080	352	2,355
	Gene Counts	34,996	1,677	2,355
Orthologous gene family	Gene Family Counts	7,923	26	0
	Gene Counts	24,247	342	0

GO Evidence Stats

Evidence code	Description	#Genes	#Entries
IBA	Inferred from Biological aspect of Ancestor	11,304	34,200
IDA	Inferred from Direct Assay	6	16
IEA	Inferred from Electronic Annotation	22,926	129,449
IMP	Inferred from Mutant Phenotype	2	4
IPI	Inferred from Physical Interaction	2	2
ISO	Inferred from Sequence Orthology	12,963	54,286
ISS	Inferred from Sequence or Structural Similarity	4	9
TAS	Traceable Author Statement	1	1

Evidence distribution



Gene List

Apply filter(s) / Configure data types

Search and download are disabled due to table size. Apply filter to reduce table size.

Gene ID	Species	Gene Type	Homologous gf	Orthologous gf
PGSC0003DMG400000001	Solanum tuberosum	coding	HOM05D002524	ORTHO05D002718
PGSC0003DMG400000002	Solanum tuberosum	coding	HOM05D008009	ORTHO05D010177
PGSC0003DMG400000003	Solanum tuberosum	coding	HOM05D001804	ORTHO05D001970
PGSC0003DMG400000004	Solanum tuberosum	coding	HOM05D003859	ORTHO05D004927
PGSC0003DMG400000005	Solanum tuberosum	coding	HOM05D004815	ORTHO05D005742
PGSC0003DMG400000008	Solanum tuberosum	coding	HOM05D000042	ORTHO05D000028
PGSC0003DMG400000009	Solanum tuberosum	coding	HOM05D000042	ORTHO05D000028
PGSC0003DMG400000010	Solanum tuberosum	coding	HOM05D000186	ORTHO05D001124
PGSC0003DMG400000011	Solanum tuberosum	coding	HOM05D000863	ORTHO05D000682
PGSC0003DMG400000012	Solanum tuberosum	coding	HOM05D000921	ORTHO05D002852

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