



Solanaceae Phenotype Ontology (SPO)

- › Mutants, germplasm, populations
- › Traits and phenotypes
- › Community-driven

<http://solgenomics.net>

Stock details

[New] [Edit] [Delete]

Organism **Solanum lycopersicum**
Stock type **accession**
Stock name **e0002m1**



Ontology annotation

[log-in to associate new ontology terms]

solanaceae_phenotype

has_phenotype homeotic mutation (SP: 0000081 )



Show complete

inferred from mutant phenotype
Naama Menda 2008-03-13

has_phenotype full sterility (SP: 0000142 )

inferred from mutant phenotype
Naama Menda 2008-03-13

Traits and Phenotypes



Member phenotypes		solcap fresh tomatoes 2010. Hutchinson Drive, Davis CA			
Fruit color		Average	Min	Max	Lines/repeats
Cross section average 'a' value		28.08	19.17	37.03	10
Cross section average 'b' value		23.08	21.67	25.76	10
Fruit longitudinal section		Average	Min	Max	Lines/repeats
distal angle macro 20%		158.82	124.36	197.10	10
distal angle micro 2%		209.39	25.01	359.47	10
Fruit cross section		Average	Min	Max	Lines/repeats
fruit lobedness degree		1.68	0.78	4.17	10
pericarp area (square centimeter)		0.44	0.44	0.44	10
Quality		Average	Min	Max	Lines/repeats
pH		4.61	4.61	4.61	1
titratable acids (gram per deciliter)		0.33	0.33	0.33	1
total soluble solids		5.49	5.49	5.49	1
Trait		Average	Min	Max	Lines/repeats
days to first flowering		69.50	67.00	72.00	2
days to fruit ripening		123.00	122.00	124.00	2
distal fruit end scar size		14.80	13.40	16.20	2
Qualitative Trait	Value				
flower fasciation	absent, absent				
hypocotyl anthocyanin content	present, present				
inflorescence structure	intermediate inflorescence, simple inflorescence				
peduncle	absent, absent				
plant habit index	indeterminate, indeterminate				

SP:0000078 'proximal fruit end blockiness'

Cvterm details

Term id **0000078**

Term name **proximal fruit end blockiness**

Term definition **Proximal fruit end proximal end width/mid width ratio.**

Comment

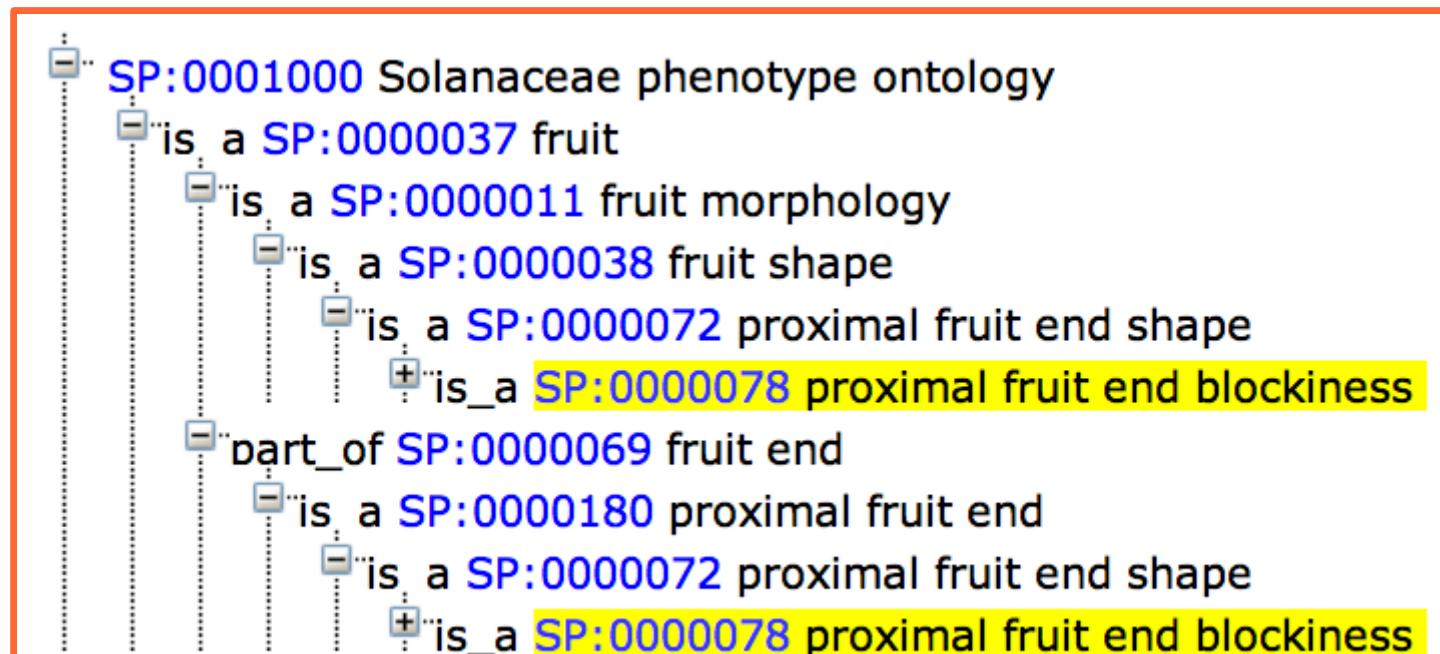
Definition dbxrefs

PATO:0001195

PO:0007010

PO:0007042

PO:0008002





Xiao et al., 2008

- is_a SP:0000011 fruit morphology
- SP:0001000 Solanaceae phenotype ontology
 - is_a SP:0000089 fruit locule number
 - is_a SP:0000038 fruit shape
 - + is_a SP:0000070 distal fruit end shape
 - + is_a SP:0000173 fasciated
 - + is_a SP:0000103 fruit bumpiness
 - + is_a SP:0000050 fruit shape circular
 - + is_a SP:0000058 fruit shape eccentric
 - + is_a SP:0000067 fruit shape ellipsoid
 - + is_a SP:0000039 fruit shape index
 - + is_a SP:0000068 fruit shape rectangular
 - + is_a SP:0000049 fruit shape triangle
 - + is_a SP:0000062 heart shape
 - + is_a SP:0000111 long fruit
 - + is_a SP:0000072 proximal fruit end shape
 - + is_a SP:0000112 rounded fruit



SolCAP

<http://solcap.msu.edu/>



Solanaceae Coordinated Agricultural Project



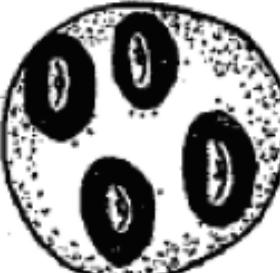
Figure 13: Distribution of Secondary Skin Tuber Color



Eyes



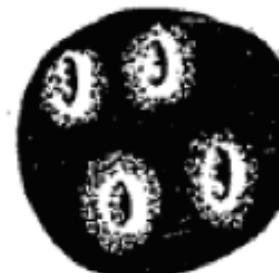
Eyebrows



Splashed



Scattered



Spectacled



Stippled

USDA: Potato description form



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solgenomics.net/search/phenotypes/traits

[ftp.solgenomics.net/ontology](ftp://ftp.solgenomics.net/ontology)

plantontology.org

<http://www.cropontology-curationtool.org/>