

# AgroLD User Guide

[agrold.org](http://agrold.org)

## Quick Search

Search with keywords and browse AgroLD Knowledge Base

Use this tool

## Advanced Search

Search with keywords, browse, and get answers to some biological questions

Use this tool

## Explore Relationships

Search easily existing relationships between entities

Use this tool

## SPARQL Query Editor

Edit and submit your SPARQL Queries to the sparql endpoint of AgroLD located

Use this tool



## Search and browse AgroLD

Search examples: ontological concepts - 'plant height' or 'regulation of gene expression'; gene names - 'GRP2' or 'TCP12'.





# Select the types you want to display

**OPENLINK SOFTWARE**

**Displaying Type where:**  
?s1 has any Attribute with Value "plant height" [Drop](#)

[View query as SPARQL](#) [Facet permalink](#)

Go to:  Show  1 - 7 of 7 total

	Count
<a href="#">Describe Type</a>	5852
<a href="#">Describe Type</a>	1237
<a href="#">Describe Type</a>	158
<a href="#">Describe Type</a>	14
<a href="#">Describe Type</a>	14
<a href="#">Describe Type</a>	14
<a href="#">Describe Type</a>	6

**Entity Relationship Filters**

- Attributes
- Values
- Distinct (Count)
- Show Matching Entities
- Places
- Options
- Save
- Featured Queries
- New Search

Go to:  Show  1 - 7 of 7 total

Complete result - 7 processed in 96 msec.  
Resource utilization: 9.852K rnd 5.906K seq 9.593K same seg 73 same pg 41 same par 0 disk 0 spec disk 0B / 0 messages 30 fork

Select only Gene type for instance



- [Class](#)
- [QTL](#)
- [http://www.southgree...old/vocabulary/Gene](#)
- [Gene](#)
- [mRNA](#)
- [Protein](#)
- [owl:Axiom](#)

Faceted Search & Find service v1.13.68 as of Jun 18 2015



[OpenLink Virtuoso](#) version 07.10.3211 as of Feb 23 2015, on Linux (x86\_64-unknown-linux-gnu), Single-Server Edition (7 GB total memory)

Data on this page is owned by its respective rights holders.

Virtuoso Faceted Browser Copyright © 2009-2018 OpenLink Software

# Results are displayed

Displaying Ranked Entity Names and Text summaries where:

?s1 has [any Attribute](#) with Value "plant height" [Drop](#).  
 ?s1 is not a [owl:Class](#) . [Drop](#)  
 ?s1 is not a [http://www.southgree...agroid/resource/QTL](#) . [Drop](#)  
 ?s1 is not a [http://www.southgree...groid/resource/mRNA](#) . [Drop](#)  
 ?s1 is not a [owl:Axiom](#) . [Drop](#)

Source of the data

Matching key word in the contextual text

Link to the gene

[IRQL](#) [Facet](#) [permal](#)

Name of the gene in that case

Go to:  Show  1 - 20 of 73 total

Entity	Title	Named Graph	
<a href="http://identifiers.org/oryzabase.gene/8136">http://identifiers.org/oryzabase.gene/8136</a>	GHD7	<a href="http://www.southgree...roid/oryzabase.gene">http://www.southgree...roid/oryzabase.gene</a>	heading date 7, Grain number, <b>plant height</b> , and heading date7, GRAIN NUMBER, <b>PLANT HEIGHT</b> AND HEADING...
<a href="http://identifiers.org/plant/Os03g0786400">http://identifiers.org/plant/Os03g0786400</a>	Os03g0786400	<a href="http://www.southgree...r/agroid/qtaro.gene">http://www.southgree...r/agroid/qtaro.gene</a>	<b>Plant height</b> .
<a href="http://identifiers.org/plant/Os01g0626400">http://identifiers.org/plant/Os01g0626400</a>	Os01g0626400	<a href="http://www.southgree...r/agroid/qtaro.gene">http://www.southgree...r/agroid/qtaro.gene</a>	<b>plant height</b> through control of cell size.
<a href="http://identifiers.org/plant/Os01g0940000">http://identifiers.org/plant/Os01g0940000</a>	Os01g0940000	<a href="http://www.southgree...r/agroid/qtaro.gene">http://www.southgree...r/agroid/qtaro.gene</a>	<b>plant height</b> .
<a href="http://identifiers.org/oryzabase.gene/5063">http://identifiers.org/oryzabase.gene/5063</a>	qPH-7-1(t) (qPHT1-1)	<a href="http://www.southgree...roid/oryzabase.gene">http://www.southgree...roid/oryzabase.gene</a>	<b>plant height</b> QTL 7 1 t <b>plant height</b> QTL 7 1 t.
<a href="http://identifiers.org/plant/Os05g0591400">http://identifiers.org/plant/Os05g0591400</a>	Os05g0591400	<a href="http://www.southgree...r/agroid/qtaro.gene">http://www.southgree...r/agroid/qtaro.gene</a>	<b>Plant height</b> .
<a href="http://identifiers.org/oryzabase.gene/5062">http://identifiers.org/oryzabase.gene/5062</a>	qPH-3-6(t) (qPHT3-6)	<a href="http://www.southgree...roid/oryzabase.gene">http://www.southgree...roid/oryzabase.gene</a>	<b>plant height</b> QTL 3 6 t <b>plant height</b> QTL 3 6 t.
<a href="http://identifiers.org/oryzabase.gene/5061">http://identifiers.org/oryzabase.gene/5061</a>	qPH-3-5(t) (qPHT3-5)	<a href="http://www.southgree...roid/oryzabase.gene">http://www.southgree...roid/oryzabase.gene</a>	<b>plant height</b> QTL 3 5 t <b>plant height</b> QTL 3 5 t.
<a href="http://identifiers.org/oryzabase.gene/6613">http://identifiers.org/oryzabase.gene/6613</a>	PH1	<a href="http://www.southgree...roid/oryzabase.gene">http://www.southgree...roid/oryzabase.gene</a>	<b>PLANT HEIGHT</b> 1Plant <b>height</b> ...
<a href="http://identifiers.org/oryzabase.gene/424">http://identifiers.org/oryzabase.gene/424</a>	D26	<a href="http://www.southgree...roid/oryzabase.gene">http://www.southgree...roid/oryzabase.gene</a>	<b>Plant height</b> is about two thirds of normal type.
<a href="http://identifiers.org/oryzabase.gene/6612">http://identifiers.org/oryzabase.gene/6612</a>	PH2	<a href="http://www.southgree...roid/oryzabase.gene">http://www.southgree...roid/oryzabase.gene</a>	<b>PLANT HEIGHT</b> 2Plant <b>height</b> ...
<a href="http://identifiers.org/oryzabase.gene/615">http://identifiers.org/oryzabase.gene/615</a>	D31	<a href="http://www.southgree...roid/oryzabase.gene">http://www.southgree...roid/oryzabase.gene</a>	<b>Plant height</b> is about 70 cm with narrow and dark green leaves.
<a href="http://identifiers.org/oryzabase.gene/6611">http://identifiers.org/oryzabase.gene/6611</a>	PH3	<a href="http://www.southgree...roid/oryzabase.gene">http://www.southgree...roid/oryzabase.gene</a>	<b>PLANT HEIGHT</b> 3Plant <b>height</b> ...
<a href="http://identifiers.org/oryzabase.gene/6364">http://identifiers.org/oryzabase.gene/6364</a>	qPh	<a href="http://www.southgree...roid/oryzabase.gene">http://www.southgree...roid/oryzabase.gene</a>	<b>plant</b> HEIGHT.
<a href="http://identifiers.org/oryzabase.gene/6610">http://identifiers.org/oryzabase.gene/6610</a>	PH4	<a href="http://www.southgree...roid/oryzabase.gene">http://www.southgree...roid/oryzabase.gene</a>	<b>PLANT HEIGHT</b> 4Plant <b>height</b> ...
<a href="http://identifiers.org/oryzabase.gene/2443">http://identifiers.org/oryzabase.gene/2443</a>	qPH-5-2(t) (ph5b)	<a href="http://www.southgree...roid/oryzabase.gene">http://www.southgree...roid/oryzabase.gene</a>	<b>plant height</b> QTL 5 2 t This QTL controls <b>plant height</b> , being located on chromosome 5 flanked by DNA markers... <b>plant height</b> QTL 5 2 t.

# Following the link of the Entity (e.g. Gene)

**About: GHD7** [Goto Sponge](#) [NotDistinct](#) [Permalink](#)  
An Entity Type : <http://www.southgreen.fr/agroid/vocabulary/Gene>, within Data Space : [volvestre.cirad.fr:8890](http://www.southgreen.fr/agroid/vocabulary/Gene) associated with source [document\(s\)](#)  
Type: <http://www.southgreen.fr/agroid/vocabulary/Gene> Command:

Attributes	Values
<a href="#">rdf:type</a>	<a href="http://www.southgreen.fr/agroid/vocabulary/Gene">http://www.southgreen.fr/agroid/vocabulary/Gene</a>
<a href="#">rdfs:label</a>	GHD7
<a href="#">rdfs:subClassOf</a>	<a href="#">SO:0000704</a>
<a href="#">description</a>	HEADING DATE 7
<a href="#">has_synonym</a>	Ghd7 Ghd2
<a href="#">has_trait</a>	<a href="#">inflorescence branching</a> <a href="#">days to heading</a> <a href="#">plant height</a> <a href="#">grain number</a> TO_0000050 TO_0000137 TO_0000207 TO_0002759

<http://www.southgreen.fr/agroid/vocabulary/chromosome> 7

<http://www.southgreen.fr/agroid/vocabulary/explanation> EU286800(Minghui 63 genomic), EU286801(Minghui 63 mRNA), OsI\_25572. CCT domain protein. JF926532-JF926543 (Indica and Japonica). flowering time gene.

[http://www.southgreen.fr/agroid/vocabulary/go\\_term](http://www.southgreen.fr/agroid/vocabulary/go_term) [response to light stimulus](#)  
[photoperiodism](#)  
[photoperiodism, flowering](#)

[http://www.southgreen.fr/agroid/vocabulary/has\\_protein\\_name](http://www.southgreen.fr/agroid/vocabulary/has_protein_name) CCT DOMAIN PROTEIN

<http://www.southgreen.fr/agroid/rapdb/Os07g0261200>

[http://www.southgreen.fr/agroid/vocabulary/has\\_trait\\_class](http://www.southgreen.fr/agroid/vocabulary/has_trait_class) Heterochrony,Yield and productivity,Heading date

<http://www.southgreen.fr/agroid/vocabulary/name> heading date 7, Grain number, plant height, and heading date7, GRAIN NUMBER, PLANT HEIGHT AND HEADING DATE 7

[http://www.southgreen.fr/agroid/vocabulary/alternative\\_name](http://www.southgreen.fr/agroid/vocabulary/alternative_name) CCT domain protein

[http://www.southgreen.fr/agroid/vocabulary/has\\_allele](http://www.southgreen.fr/agroid/vocabulary/has_allele) Ghd7-0  
Ghd7-0a  
Ghd7-1  
Ghd7-2  
Ghd7-3

Direct Link to the original source

Select this Link to display all genes tagged with this trait

### Search and browse AgroLD

Search examples: ontological concepts - 'plant height' or 'regulation of gene expression'; gene names - 'GRP2' or 'TCP12'.

Please enter a keyword



Direct Link to  
the display the  
entity

Entity Names and Text summaries where:

attribute with Value "TCP12" [Drop](#).

[QL](#) [Facet](#) [permalink](#)

Go to:  Show  1 - 3 of 3 total

Entity	Title	Named Graph
<a href="#">uniprot:uniprot/A0AQW4</a>	TCP12	<a href="http://www.southgree...protein.annotations">http://www.southgree...protein.annotations</a>
<a href="#">uniprot:uniprot/A0AQW4</a>	TCP12	<a href="http://www.southgree...roid/uniprot.plants">http://www.southgree...roid/uniprot.plants</a>
<a href="http://www.southgree...equence/AT1G68800.1">http://www.southgree...equence/AT1G68800.1</a>	AT1G68800.1	<a href="http://www.southgree.../agroid/greenphyldb">http://www.southgree.../agroid/greenphyldb</a>

**TCP12** ARATHTranscription factor.  
 Symbols: BRC2, **TCP12** TCP domain protein 12  
 chr1:25847306 25848471 REVERSE LENGTH 356.

Go to:  Show  1 - 3 of 3 total

Complete result - 3 processed in 9 msec.  
 Resource utilization: 266 md 12 seq 187 same seg 0 same pg 7 same par 0 disk 0 spec disk 0B / 0 messages 0 fork

Entity Relationship  
Filters

- Type
- Attributes
- Values
- Distinct (Count)
- Places
- Options
- Save
- Featured Queries
- New Search

## About: TCP12

[Goto](#) [Sponge](#) [NotDistinct](#) [Permalink](#)

An Entity of Type : <http://www.southgreen.fr/agrold/resource/Protein>, within Data Space : [volvestre.cirad.fr:8890](http://volvestre.cirad.fr:8890) associated with source [document\(s\)](#)

Command:

Direct Link to  
the original  
source

Attributes	Values
<a href="#">rdf:type</a>	<a href="#">Class</a> <a href="#">Protein</a>
<a href="#">rdfs:label</a>	TCP12 TCP12_ARATH
<a href="#">rdfs:subClassOf</a>	<a href="#">SO:0000104</a>
<a href="#">description</a>	Transcription factor TCP12
<a href="#">classified with</a>	Complete proteome Reference proteome Developmental protein Nucleus DNA-binding <a href="#">»more»</a>
<a href="#">taxon</a>	<a href="#">Arabidopsis thaliana</a>
<a href="#">has dbxref</a>	<a href="#">uniprot:interpro/IPR017888</a> <a href="#">uniprot:prosite/PS51370</a> <a href="#">uniprot:biogrid/28433</a> <a href="#">uniprot:eggog/NOG266795</a> <a href="#">uniprot:embi/AM408561</a> <a href="#">uniprot:ensemblplants/AT1G68800.1</a> <a href="#">uniprot:expressionatlas/A0AQW4</a> <a href="#">uniprot:geneid/843212</a> <a href="#">uniprot:geneinvestigator/A0AQW4</a> <a href="#">uniprot:hogenom/HOG000154526</a> <a href="#">uniprot:inparanoid/A0AQW4</a> <a href="#">uniprot:kegg/ath:AT1G68800</a> <a href="#">uniprot:oma/ERTMAKM</a> <a href="#">uniprot:phylomedb/A0AQW4</a> <a href="#">uniprot:pir/G96712</a> <a href="#">uniprot:pride/A0AQW4</a> <a href="#">uniprot:proteinmodelportal/A0AQW4</a> <a href="#">uniprot:refseq/NP_177047.2</a> <a href="#">uniprot:string/3702.AT1G68800.1-P</a> <a href="#">uniprot:tair/AT1G68800</a> <a href="#">uniprot:unigene/At.64893</a> <a href="#">uniprot:embi/AC011914</a> <a href="#">uniprot:proteomes/UP000006548</a> <a href="#">uniprot:embi/CP002684</a> <a href="#">uniprot:interpro/IPR005333</a> <a href="#">uniprot:interpro/IPR017887</a> <a href="#">uniprot:pfam/PF03634</a> <a href="#">uniprot:prosite/PS51369</a>

[has annotation](#) <http://identifiers.org/goa/A0AQW4>

[has function](#) [DNA binding](#)  
[sequence-specific DNA binding transcription factor activity](#)

[has synonym](#) BRC2  
At1g68800  
F14K14.9  
TCP12  
TCP12\_ARATH

[located in](#) [nucleus](#)

[participates in](#) [transcription, DNA-dependent](#)  
[regulation of transcription, DNA-dependent](#)  
[multicellular organismal development](#)  
[regulation of secondary shoot formation](#)

[has symbol](#) TCP12

[comment](#) FUNCTION: Transcription factor that prevents axillary bud outgrowth. May also delay early axillary bud development. Probably involved in the auxin-induced auxin response element (ARE) pathway. {ECO:0000269|PubMed:17307924}. SUBCELLULAR LOCATION: Nucleus {ECO:0000255|PROSITE- ProRule:PRU00701, ECO:0000269|PubMed:17307924} and, to a lower extent, in axillary structures such as flowers and siliques. {ECO:0000269|PubMed:17307924}. DEVELOPMENTAL STAGE: Detected in axillary meristem after flowering. During bud vegetative development, down-regulated in the outer layers of the meristem, but accumulates transiently in young leaf primordia underlying the bud. Accumulates in axillary buds, but disappears at the time of bud outgrowth. {ECO:0000269|PubMed:17307924}. INTRON SPlicing: Contains 1 R domain. {ECO:0000255|PROSITE- ProRule:PRU00701}. SEQUENCE CAUTION: Sequence=AAG52043.1; Type=Erroneous gene model prediction; Ev

[has alternative id](#) [uniprot:uniprot/Q9CA43](#)

is [encodes](#) of [BRC2](#)

is [has dbxref](#) of [AT1G68800.1](#)

is [rdf:subject](#) of <http://identifiers.org/goa/A0AQW4>

Link to the  
Gene

### Quick Search

Search with keywords and browse AgroLD Knowledge Base

[Use this tool](#)

### Advanced Search

Search with keywords, browse, and get answers to some biological questions

[Use this tool](#)

### Explore Relationships

Search easily existing relationships between entities

[Use this tool](#)

### SPARQL Query Editor

Edit and submit your SPARQL Queries to the sparql endpoint of AgroLD located

[Use this tool](#)



### Search > Advanced form-based search

Search examples: ontological concepts - 'plant height' or 'regulation of gene expression'; gene names - 'GRP2' or 'TCP2'.

QTL ID: 'AQAA003' ; protein name: 'TBP1'

Step1:  
Select type of search between  
Gene  
Protein  
QTL  
PATHWAY  
Ontology

Step2:  
Enter the value  
And search

Ontology ▾ GO:0005615

Search:  Show 30 entries

	Name	Description	URI
1	GO:0005615 <a href="#">(display)</a>	extracellular space	<a href="http://purl.obolibrary.org/obo/GO_0005615">http://purl.obolibrary.org/obo/GO_0005615</a> <a href="#">(in Sparql)</a>
2	GO:0005615 <a href="#">(display)</a>	extracellular space	<a href="http://purl.obolibrary.org/obo/GO_0005615">http://purl.obolibrary.org/obo/GO_0005615</a> <a href="#">(in Sparql)</a>

Showing 1 to 2 of 2 entries

Step3:  
Display one result

**ONTOLOGY > GO:0005615** ✕

**Extracellular space**

That part of a multicellular organism outside the cells proper, usually taken to be outside the plasma membranes, and occupied by fluid.

Parents Children Proteins associated QTL associated

Search:  Show  entries

	ancestorId	uri
1	GO:0044421 <a href="#">(display)</a>	<a href="http://purl.obolibrary.org/obo/GO_0044421">http://purl.obolibrary.org/obo/GO_0044421</a> <a href="#">(In Sparql)</a>

Showing 1 to 1 of 1 entries

Click to go up  
(more general  
in the ontology)  
and display  
results

Click to go  
down (more  
specific in the  
ontology) and  
display results

Parents				Children				Proteins associated				QTL associated			
Next page >				<input type="button" value="↕"/> <input type="button" value="↓"/>				Search: <input type="text"/>				Show <input type="text" value="30"/> entries			
proteinId		Association		URI											
1	J3KYL9 <a href="#">(display)</a>	located_in		<a href="http://purl.uniprot.org/uniprot/J3-KYL9">http://purl.uniprot.org/uniprot/J3-KYL9</a> <a href="#">(in Sparql)</a>											
2	Q01881 <a href="#">(display)</a>	located_in		<a href="http://purl.uniprot.org/uniprot/Q01881">http://purl.uniprot.org/uniprot/Q01881</a> <a href="#">(in Sparql)</a>											
3	Q01882 <a href="#">(display)</a>	located_in		<a href="http://purl.uniprot.org/uniprot/Q01882">http://purl.uniprot.org/uniprot/Q01882</a> <a href="#">(in Sparql)</a>											
4	Q0D7S0 <a href="#">(display)</a>	located_in		<a href="http://purl.uniprot.org/uniprot/Q0D7S0">http://purl.uniprot.org/uniprot/Q0D7S0</a> <a href="#">(in Sparql)</a>											
5	Q0D7S4 <a href="#">(display)</a>	located_in		<a href="http://purl.uniprot.org/uniprot/Q0D7S4">http://purl.uniprot.org/uniprot/Q0D7S4</a> <a href="#">(in Sparql)</a>											
6	Q0DGU1 <a href="#">(display)</a>	located_in		<a href="http://purl.uniprot.org/uniprot/Q0D-GU1">http://purl.uniprot.org/uniprot/Q0D-GU1</a> <a href="#">(in Sparql)</a>											
7	Q10GX0 <a href="#">(display)</a>	located_in		<a href="http://purl.uniprot.org/uniprot/Q10GX0">http://purl.uniprot.org/uniprot/Q10GX0</a> <a href="#">(in Sparql)</a>											
8	Q4ADV8 <a href="#">(display)</a>	located_in		<a href="http://purl.uniprot.org/uniprot/Q4ADV8">http://purl.uniprot.org/uniprot/Q4ADV8</a> <a href="#">(in Sparql)</a>											
		located_in		<a href="http://purl.uniprot.org/uniprot/Q53KS">http://purl.uniprot.org/uniprot/Q53KS</a>											

Display proteins having the search annotation GO:0005615

Select the protein to display (Q5Z710)

PROTEIN > Q5Z7I0



OSJNBa0090E14.1

Os06g0556600 protein

is encoded by

QTL

Ontology

Publication



Search:

Show

30

entries

	Id	Name	Description	URI
1	OS06G0556600 <a href="#">(display)</a>		Os06g0556600 protein [Source:UniProtKB/TrEM- BL;Acc:Q5Z7I0]	<a href="http://identifiers.org/ensembl.plant/OS06G0556600">http://identifiers.org/ensembl.plant/OS06G0556600</a> <a href="#">(in Sparql)</a>

Showing 1 to 1 of 1 entries

Close

## Quick Search

Search with keywords and browse AgroLD Knowledge Base

Use this tool

## Advanced Search

Search with keywords, browse, and get answers to some biological questions

Use this tool

## Explore Relationships

Search easily existing relationships between entities

Use this tool

## SPARQL Query Editor

Edit and submit your SPARQL Queries to the sparql endpoint of AgroLD located

Use this tool







© AgroLD 2017





## Search > Explore relationship

RelFinder  URL   

between | **examples** |

**Agronomic Linked Data (AgroLD)**

- AT3G25570
- spermine biosynthesis
- spermidine biosynthesis

**Agronomic Linked Data (AgroLD)**

- RTLG
- BLE3

**Agronomic Linked Data (AgroLD)**

- head rice
- Machilus sp. van der Werff & al. 14071

**Agronomic Linked Data (AgroLD)**

- Streptomyces verne
- Anabaena sp. CA

Status: Idle

See how examples work: Select one of these example and click on load

# Search > Explore relationship

RelFinder URL 🔍 🔗 🔧 Status: Idle

between examples

(1) AT3G25570 ×

(2) spermine biosynthesis ×

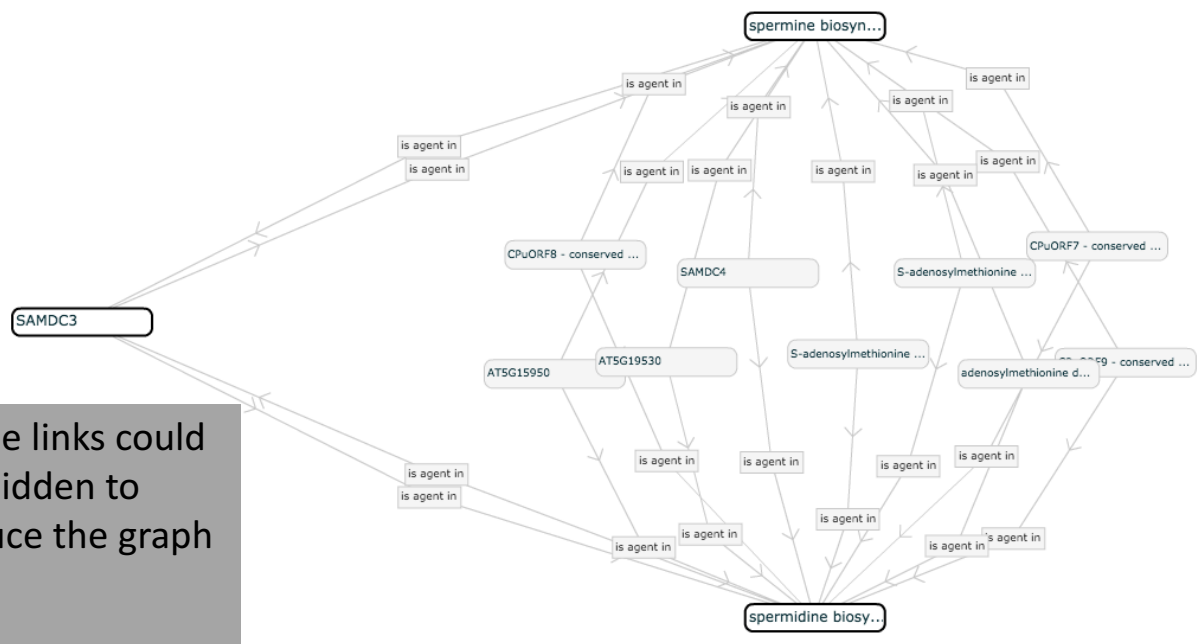
(3) spermidine biosynthesis ×

add clear Find Relations

Filter by: relations: (12/15)

length class link connect...





link type	num	vi
is agent in	22/22	🔍
type	0/2	🔍



Some links could be hidden to reduce the graph size

## Search > Explore relationship

Status: Idle

RelFinder  URL   

between examples



(1)  x

(2)  x

(3)  x

Filter by: relations: (12/15)

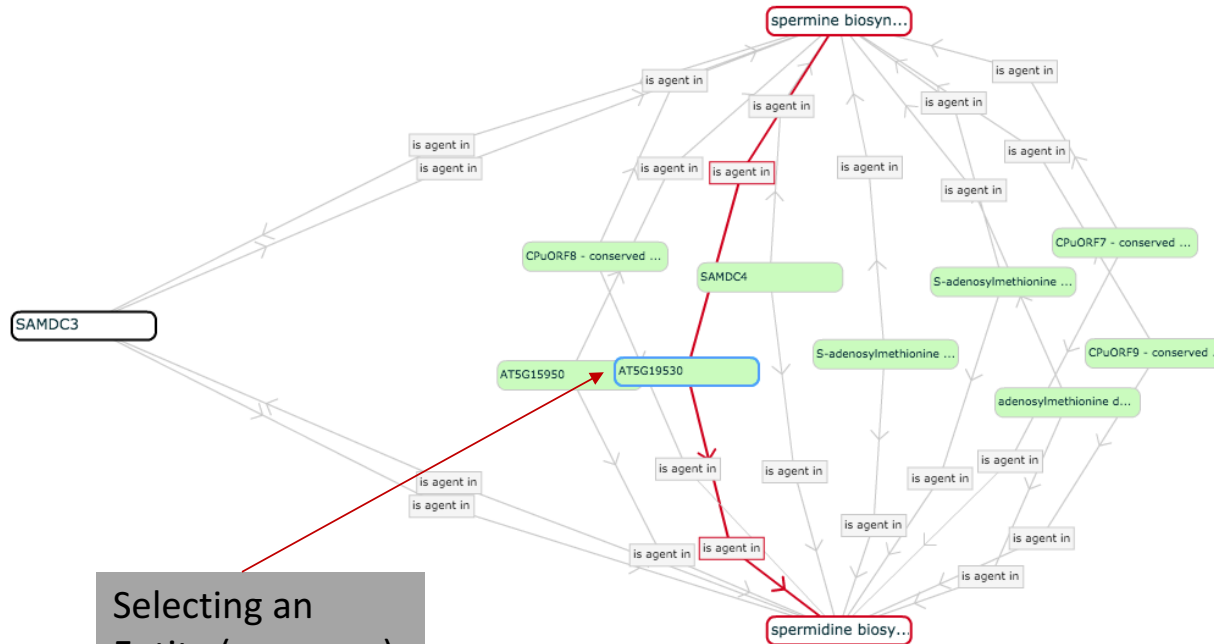
length  class  link  connect...

link type	num	vi
is agent in	22/22	
type	0/2	

**AT5G19530**

More Infos: [identifiers.org](http://identifiers.org)

Thermospermine synthase ACAUL155  
[Source:UniProtKB/Swiss-Prot;Acc:Q967X6]



Selecting an Entity (e.g. gene) highlight the links between others entities. More results are display by following this link

# Explore the knowledge graphs with your own keywords

The screenshot shows the RelFinder interface with a search form. The form has two input fields, both containing the placeholder text "Relations between what?". Below the input fields are three buttons: "add", "clear", and "Find Relations". A red arrow points from a text box to the first input field. The interface also includes a "Search > Explore relationship" header, a "RelFinder" logo, a "URL" field, and a "Status: Idle" indicator.

Search > Explore relationship

RelFinder URL Status: Idle

between examples

(1) Relations between what?

(2) Relations between what?

add clear Find Relations

Enter keywords with autocompletion select the correct term

### Quick Search

Search with keywords and browse AgroLD Knowledge Base

Use this tool

### Advanced Search

Search with keywords, browse, and get answers to some biological questions

Use this tool

### Explore Relationships

Search easily existing relationships between entities

Use this tool

### SPARQL Query Editor

Edit and submit your SPARQL Queries to the sparql endpoint of AgroLD located

Use this tool



© AgroLD 2017

Set values of parameters: **APPLY** KEYBOARD COMMANDS

Replace "uniprot:P0C127" by : uniprot:P0C127

**Query Text**

```

1 BASE <http://www.soungreen.fr/agroid/>
2 PREFIX rdf:<http://www.w3.org/1999/02/22-rdf-syntax-ns#>
3 PREFIX rdfs:<http://www.w3.org/2000/01/rdf-schema#>
4 PREFIX obo:<http://purl.obolibrary.org/obo/>
5 PREFIX uniprot:<http://purl.uniprot.org/uniprot/>
6 PREFIX vocab:<vocabulary/>
7 PREFIX graph:<protein.annotations>
8
9 SELECT distinct ?predicate ?object ?object_label
10 WHERE {
11   GRAPH graph: {
12     uniprot:P0C127 ?predicate ?object.
13   OPTIONAL {
14     GRAPH ?g {
15       ?object rdfs:label ?object_label.
16     }
17   }
18 }

```

Execution timeout: 20000 milliseconds (values less than 1000 are ignored) Results Format: RDF/XML **Download Results**

Filename to Save As: query.sparql **Save Query** Choisir un fichier Aucun fichier choisi **Load Selected Query File**

### Query Patterns

1. Retrieve list of graphs ([select](#))
2. Search terms by label ([select](#))
3. List relation types in a given graph ([select](#))
4. Retrieve the local neighbourhood of Oryza sativa japonica protein: **IAA16** - Auxin-responsive protein (UniProt accession:P0C127) ([select](#))
5. Identify Wheat proteins that are involved in root development. ([select](#))
6. Retrieve genes that participate in a given pathway: **Calvin cycle** ([select](#))
7. Retrieve Proteins associated with a given QTL: **DTHD** (days to heading) ([select](#))
8. Get the ID corresponding to the ontological term "**homoaconitate hydratase activity**" ([select](#))
9. Get the name of the ontological element that has the ID "**GO:0003824**" ([select](#))
10. Get the level **4** ancestor of **GO:0004409** ([select](#))
11. Get the level **2** descendance of **GO:0003824** ([select](#))
12. Get protein ids associated with the ontological id **GO:0003824** ([select](#))
13. Get QTL ids associated with the ontological id **EO:0007403** ([select](#))
14. Describe **uniprot:P0C127** ([select](#))
15. Give me the genes on **chromosome 1** whose **start position** is on **2983** ([select](#))
16. Give me the genes on **chromosome 1** whose **start position** is between **1000 and 3000** ([select](#))

Step 2:  
Modify (or not)  
in that case the  
protein ID and  
validate with  
APPLY

Step 3:  
Run the query

Step 1:  
Select an  
example query

**Query Text** KEYBOARD COMMANDS

```

1 BASE <http://www.southgreen.fr/agroid/>
2 PREFIX rdf:<http://www.w3.org/1999/02/22-rdf-syntax-ns#>
3 PREFIX rdfs:<http://www.w3.org/2000/01/rdf-schema#>
4 PREFIX obo:<http://purl.obolibrary.org/obo/>
5 PREFIX uniprot:<http://purl.uniprot.org/uniprot/>
6 PREFIX vocab:<vocabulary/>
7 PREFIX graph:<gramene.cyc>
8 PREFIX pathway:<biocyc.pathway/CALVIN-PWY>
9
10 SELECT DISTINCT ?gene ?name ?taxon_name
11 WHERE {
12 GRAPH graph: {
13 ?gene vocab:is_agent_in pathway:.
14 ?gene rdfs:label ?name.
15 ?gene vocab:taxon ?taxon_name.
16 }

```

Execution timeout: 20000 milliseconds (values less than 1000 are ignored) Results Format: RDF/XML Download Results

Filename to Save As: query.sparql Save Query Choisir un fichier Aucun fichier choisi Load Selected Query File

Step 2:  
Modify (or not)  
in that case the  
protein ID and  
validate with  
APPLY

Step 3:  
Run the query

### Query Patterns

1. Retrieve list of graphs ([select](#))
2. Search terms by label ([select](#))
3. List relation types in a given graph ([select](#))
4. Retrieve the local neighbourhood of *Oryza sativa japonica* protein: **IAA16** - Auxin-responsive protein (UniProt accession:POC127) ([select](#))
5. Identify Wheat proteins that are involved in root development. ([select](#))
6. Retrieve genes that participate in a given pathway: **Calvin cycle** ([select](#))
7. Retrieve Proteins associated with a given QTL: **DTHD** (days to heading) ([select](#))
8. Get the ID corresponding to the ontology term "**homoaconitate hydratase activity**" ([select](#))
9. Get the name of the ontological element that has the ID "**GO:0003824**" ([select](#))
10. Get the level **4** ancestor of **GO:0004409** ([select](#))
11. Get the level **2** descendance of **GO:0003824** ([select](#))
12. Get protein ids associated with the ontological id **GO:0003824** ([select](#))
13. Get QTL ids associated with the ontological id **EO:0007403** ([select](#))
14. Describe **uniprot:POC127** ([select](#))
15. Give me the genes on **chromosome 1** whose **start position** is on **2983** ([select](#))
16. Give me the genes on **chromosome 1** whose **start position** is between **1000 and 3000** ([select](#))

Step 1:  
Select an other  
example query

## Results

[↔](#) [Raw Response](#) **[Table](#)** [Pivot Table](#) [↓](#)

Search:  Show  entries

	gene	name	taxon_name
1	<a href="http://www.southgreen.fr/agroid/tigr.locus/LOC_Os01g02880.1">http://www.southgreen.fr/agroid/tigr.locus/LOC_Os01g02880.1</a>	fructose-bisphosphate aldolase	obo:NCBITaxon_39947
2	<a href="http://www.southgreen.fr/agroid/tigr.locus/LOC_Os01g05490.1">http://www.southgreen.fr/agroid/tigr.locus/LOC_Os01g05490.1</a>	triose-phosphate isomerase	obo:NCBITaxon_39947
3	<a href="http://www.southgreen.fr/agroid/tigr.locus/LOC_Os01g36090.1">http://www.southgreen.fr/agroid/tigr.locus/LOC_Os01g36090.1</a>	ribose-5-phosphate isomerase	obo:NCBITaxon_39947
4	<a href="http://www.southgreen.fr/agroid/tigr.locus/LOC_Os01g39280.1">http://www.southgreen.fr/agroid/tigr.locus/LOC_Os01g39280.1</a>	pyridoxin biosynthesis protein ER1, putative	obo:NCBITaxon_39947
5	<a href="http://www.southgreen.fr/agroid/tigr.locus/LOC_Os01g58020.1">http://www.southgreen.fr/agroid/tigr.locus/LOC_Os01g58020.1</a>	ribulose-bisphosphate carboxylase	obo:NCBITaxon_39947
6	<a href="http://www.southgreen.fr/agroid/tigr.locus/LOC_Os01g58610.1">http://www.southgreen.fr/agroid/tigr.locus/LOC_Os01g58610.1</a>	phosphoglycerate kinase	obo:NCBITaxon_39947
7	<a href="http://www.southgreen.fr/agroid/tigr.locus/LOC_Os01g62420.1">http://www.southgreen.fr/agroid/tigr.locus/LOC_Os01g62420.1</a>	triosephosphate isomerase, cytosolic, putative, expressed	obo:NCBITaxon_39947
8	<a href="http://www.southgreen.fr/agroid/tigr.locus/LOC_Os01g64660.1">http://www.southgreen.fr/agroid/tigr.locus/LOC_Os01g64660.1</a>	phosphoric ester hydrolase	obo:NCBITaxon_39947

Follow the link





# More details

About: [fructose-bisphosphate aldolase](#) at Agroid.org

An Entity of Type: in URI : [http://www.southgreen.fr/agroid/tigr.locus/LOC\\_Os01g02880.1](http://www.southgreen.fr/agroid/tigr.locus/LOC_Os01g02880.1)

Property	Value
<a href="#">vocabulary:develops_from</a>	<ul style="list-style-type: none"><li>▪ <a href="http://identifiers.org/ricegap/LOC_Os01g02880">http://identifiers.org/ricegap/LOC_Os01g02880</a></li></ul>
<a href="#">vocabulary:is_agent_in</a>	<ul style="list-style-type: none"><li>▪ <a href="http://www.southgreen.fr/agroid/biocyc.pathway/CALVIN-PWY">http://www.southgreen.fr/agroid/biocyc.pathway/CALVIN-PWY</a></li><li>▪ <a href="http://www.southgreen.fr/agroid/biocyc.pathway/GLUCONEO-PWY">http://www.southgreen.fr/agroid/biocyc.pathway/GLUCONEO-PWY</a></li><li>▪ <a href="http://www.southgreen.fr/agroid/biocyc.pathway/GLYCOLYSIS">http://www.southgreen.fr/agroid/biocyc.pathway/GLYCOLYSIS</a></li><li>▪ <a href="http://www.southgreen.fr/agroid/biocyc.pathway/P185-PWY">http://www.southgreen.fr/agroid/biocyc.pathway/P185-PWY</a></li><li>▪ <a href="http://www.southgreen.fr/agroid/biocyc.pathway/PWY-1042">http://www.southgreen.fr/agroid/biocyc.pathway/PWY-1042</a></li><li>▪ <a href="http://www.southgreen.fr/agroid/biocyc.pathway/PWY-3801">http://www.southgreen.fr/agroid/biocyc.pathway/PWY-3801</a></li></ul>
<a href="#">rdfs:label</a>	<ul style="list-style-type: none"><li>▪ fructose-bisphosphate aldolase</li></ul>
<a href="#">vocabulary:taxon</a>	<ul style="list-style-type: none"><li>▪ <a href="http://purl.obolibrary.org/obo/NCBITaxon_39947">http://purl.obolibrary.org/obo/NCBITaxon_39947</a></li></ul>
<a href="#">rdf:type</a>	<ul style="list-style-type: none"><li>▪ <a href="http://www.southgreen.fr/agroid/resource/Gene">http://www.southgreen.fr/agroid/resource/Gene</a></li></ul>

Follow the link to the original source

List genes involve in this pathway

# Thanks for your support !

Thank you for helping us!  
Please take the following survey. Your answers will help us improve the application to suit your needs.



AgroLD Web Application Survey

**\*Obligatoire**

What best describes your role in your organization? \*

biologist

bioinformatician

computer scientist

SUIVANT

Page 1 sur 6

N'envoyez jamais de mots de passe via Google Forms.

Please take 5 min to fill up our survey !

<http://volvestre.cirad.fr:8080/agrold/survey.jsp>