

Gene Curation Software at the Rat Genome Database (RGD)

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Rat Genome Database
Medical College of Wisconsin
Biocuration 2010



Suite of Tools

1. Ontology annotation (to genes, QTLs, and strains)
 - Create New Annotations
 - Edit Any Annotation
 - Monitor Obsolete GO terms
2. Gene Nomenclature
3. Object editing (genes, QTLs, and strains)

Ontology Annotation Tool



Submit Data
Rat Genome Database



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UserID: slaulederk

Curation Tool

Core Objects



[Select Objects](#)

Ontology Terms



[Select Terms](#)

References



[Select References](#)

[Associations](#)

[Clear Everything](#)

Curation Tool

Please see the [Curation Wiki](#) for instructions on curation policies and procedures if

In general you will start by selecting Objects, Terms and References through the left
"Association" link.

Core Object Search

▼

- EST
- Gene
- Gene & Homolog
- Homolog
- QTL
- SSLP
- Strain

Ontology Term Search

Terms

▼

- All
- Gene Ontology
- Disease Ontology
- Behavioral Ontology
- Phenotype Ontology
- Pathway Ontology
- Genetic Factors Ontology
- Environmental Factors Ontology

Search Results

Core Objects



[Select Objects](#)

Ontology Terms



[Select Terms](#)

References



[Select References](#)

[Associations](#)

[Clear Everything](#)

Tools

[Curation Tool](#)

[Object Edit](#)

[Merge/Retire/Split Objects](#)

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Enter an Object name or RGDID *

Search where: *

Object Type: *

sftpd

Equals

- EST
- Gene
- Gene & Homolog
- Homolog
- QTL
- SSLP
- Strain

[Search for Object](#)

Result Count : 3

RGDID	Symbol	Name	Species	Aliases	Status	Select
3667	Sftpd	surfactant protein D		CP4 lung surfactant protein D PSP-D pulmonary surfactant protein D pulmonary surfactant-associated protein D SP-D SPD surfactant associated protein D surfactant protein D surfactant pulmonary-associated protein D surfactant, pulmonary-associated protein D		
11287	Sftpd	surfactant associated protein D		AI573415 lung surfactant protein D PSP-D pulmonary surfactant-associated protein D Sftp4 SP-D		
735702	SFTPD	surfactant protein D		COLEC7 collectin 7 collectin-7 lung surfactant protein D PSP-D pulmonary surfactant apoprotein pulmonary surfactant-associated protein D SFTP4 SP-D		

PubMed ID

Select / Create References

You have the following options:

Import a Reference Directly from NCBI

PMID:

Import Directly

RGD ID

Search By Existing Reference

Keywords in Title, Citation, or RGDID:

Author Surname

Year:

Order Results By:




- Year
- Citation
- Title



Find References

Core Object, Term, & Reference Selection

Curation Tool





Core Objects



-  [G : Sftpd](#)
-  [G : Sftpd](#)
-  [G : SFTPD](#)

[Select Objects](#)


Ontology Terms



-  [surfactant homeo...](#)
-  [extracellular sp...](#)
-  [Cystic Fibrosis](#)
-  [Pneumonia](#)

[Select Terms](#)

References



-  [RGD:4143517](#)

[Select References](#)

Curation Tool



Core Objects

-  [G : Sftpd](#)
-  [G : Sftpd](#)
-  [G : SFTPD](#)



[Select Objects](#)

Ontology Terms

-  [plasma membrane](#)
-  [Cystic Fibrosis](#)



[Select Terms](#)

References

-  [RGD:4143502](#)



[Select References](#)

[Associations](#)

[Clear Everything](#)

Core Objects

- * Rat Gene: **Sftpd**
- Mouse Gene: **Sftpd**
- Human Gene: **SFTPD**

Ontology Terms

- * plasma membrane
- Cystic Fibrosis

References

- * Patterns of neutrophil serine protease-dependent cleavage

Qualifier

Evidence Code *

With Info.

Aspect *

- Biological Process(P)
- Behavioral Process(B)
- Cellular Component(C)
- Disease Ontology(D)
- Mammalian Phenotype(N)
- Molecular Function(F)
- Pathway(W)

[Generate List](#)

- Mammalian Phenotype(N)
- Molecular Function(F)
- Pathway(W)

Generate List

1 Association(s) to be created:

[Click here to revise](#)

ObjectName	Reference	Term	Qualifier
Sftpd	RGD: 4143502	plasma membrane	

Create these Annotations in DataBase

Cancel

Annotations that already exist for Object(s) you've selected:

Edit	Object name	Reference	Term	Qualifier	Evidence
	SFTPD	4143281	Pulmonary Disease, Chronic Obstructive		IAGP
	SFTPD	4143507	Respiratory Distress Syndrome	Susceptibility	IAGP
	SFTPD	4143495	Respiratory Syncytial Virus Infections	Susceptibility	IAGP
	SFTPD	4143304	Bronchopulmonary		IAGP

Post-Process Editing Options

Clear Everything

Tools

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[Merge/Retire/Split
Objects](#)

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- Mammalian Phenotype(N)
- Molecular Function(F)
- Pathway(W)

[Generate List](#)

Annotations that already exist for Object(s) you've selected:

Edit	Object name	Reference	Term	Qualifier	Evidence	
	SFTPD	4143281	Pulmonary Disease, Chronic Obstructive		IAGP	
	SFTPD	4143507	Respiratory Distress Syndrome	Susceptibility	IAGP	
	SFTPD	4143495	Respiratory Syncytial Virus Infections	Susceptibility	IAGP	
	SFTPD	4143384	Bronchopulmonary Dysplasia		IAGP	

Edit Annotation for SFTPD

Key: 61803851

Annotated Object RGD ID:

RGD Object Key: 1

Object Symbol: SFTPD

Object Name: surfactant protein D

Term Acc:

Term Key: 58146

Term: Pulmonary Disease, Chronic Obstructive

Vocab Key: 7

Data Src:

Ref RGD ID:

Evidence:

With Info:

Aspect:

Obsolete GO Term Monitoring

Obsolete Terms

These terms are no longer in our database, but we still have annotations referencing them. We will either delete these annotations or change them to reference a different term.

	TERM	VOCAB	TERM_ACC
view annotations	ubiquitin-specific protease 5 activity	GO	GO:0008581
view annotations	ATP-dependent proteolysis	GO	GO:0006510
view annotations	lipoprotein binding	GO	GO:0008034
view annotations	high-density lipoprotein	GO	GO:0005321
view annotations	trypsin inhibitor activity	GO	GO:0030304
view annotations	regulator of G-protein signaling activity	GO	GO:0016299
view annotations	plasmin inhibitor activity	GO	GO:0030568

Gene Nomenclature Tool

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Nomenclature Search

Search by

Name/Symbol/RGD ID:

Run keyword search

Search by Date Range:

From

Jan

1

2000



To

Oct

5

2010



Run Date Search

Totals

Genes with new nomenclature: 191

Genes with no good ortholog or no change: 35640

Untouchable nomenclature: 2672

Set for review in next year: 1265



HOME DATA GENOME TOOLS DISEASES PHENOTYPES & MODELS **KNOCKOUTS** COMMUNITY CURATION WEB

Results: 1 to 10 of 191

<< Previous Next >>

Accept All

Submit Changes

	RGD ID	Symbol	Name
Rattus norvegicus	1307800	Apobec3f	apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F
Homo sapiens:	1347030	APOBEC3B	apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3B
Mus musculus:	1317203	Apobec3	apolipoprotein B mRNA editing enzyme, catalytic polypeptide 3
Proposed Change		Apobec3b	apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3B

Skip Accept: Reject: Update:

Rattus norvegicus	1560362	Arpc5l2	actin related protein 2/3 complex, subunit 5-like 2
Homo sapiens:	1318888	ARPC5L	actin related protein 2/3 complex, subunit 5-like
Mus musculus:	1318889	Arpc5l	actin related protein 2/3 complex, subunit 5-like
Proposed Change		Arpc5l	actin related protein 2/3 complex, subunit 5-like

Skip Accept: Reject: Update:

Rattus norvegicus	1564242	Atxn7l1	ataxin 7-like 1
Homo sapiens:	1345348	ATXN7L4	ataxin 7-like 4
Mus musculus:	1614792	Atxn7l1	ataxin 7-like 1
Proposed Change		Atxn7l1	ataxin 7-like 1

Object Editor

RGD Object Editor

Add an RGD Object

Edit an Existing RGD Object

Clone an RGD Object

Group Update Tools

[Object Status](#)

Edit Gene: Sftpd

Key: 1665

Symbol:

Name:

Description:

Product:

Function:

Notes:

Type:

Nomen Review Date: 2100-10-01

Object Information	
Rgd Id:	3667
Created:	2000-05-25
Species Type:	<input type="text" value="Rat"/>
Last Modified:	2010-08-19
Status:	<input type="text" value="ACTIVE"/>
<input type="button" value="Update"/>	

Aliases

[Add Alias](#)

Type	Value	
<input type="text" value="array_id_rat230_2_Affymetrix"/>	<input type="text" value="1387315_at"/>	<input type="button" value="X"/>
<input type="text" value="old_gene_name"/>	<input type="text" value="surfactant associated protein D"/>	<input type="button" value="X"/>
<input type="text" value="image_clone_id"/>	<input type="text" value="IMAGE:7098194"/>	<input type="button" value="X"/>
<input type="text" value="mgc_clone_id"/>	<input type="text" value="MGC:91760"/>	<input type="button" value="X"/>
<input type="text" value="old_gene_symbol"/>	<input type="text" value="SPD"/>	<input type="button" value="X"/>
<input type="text" value="..."/>	<input type="text" value="..."/>	<input type="button" value="X"/>

Acknowledgements



Rat Genome Database

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