ImmPort Gene Detailed Report

Basic Gene Detailed Report

The following are the sources of the basic gene information presented on this page.

Gene

- National Center for Biotechnology Information (NCBI) Entrez Gene
- University of California, Santa Cruz (UCSC) Genome Bioinformatics

Transcript

- NCBI Entrez Gene
- UCSC Genome Bioinformatics

Protein

- Universal Protein Resource (UniProt)
- NCBI Entrez Gene
- UCSC Genome Bioinformatics
- Kyoto Encyclopedia of Genes and Genomes (KEGG)

Homolog

- NCBI Homologene
- NCBI Entrez Taxonomy

Reference

- PubMed

Phenotype

- NCBI Online Mendelian Inheritance in Man (OMIM)

Polymorphism

NCBI Entrez Single Nucleotide Polymorphism (SNP) TagSNPs were derived using the LDSelect algorithm.
To export the detailed records on this page, click on "Export" at the bottom of the screen. For the exported text file to display properly on a PC, use Word Pad to open the text file.

Link(s)

About Reference Data
TagSNP selection
For dates of when data were extracted from their original sources, see Reference Data History on the side navigation under the reference data query module.

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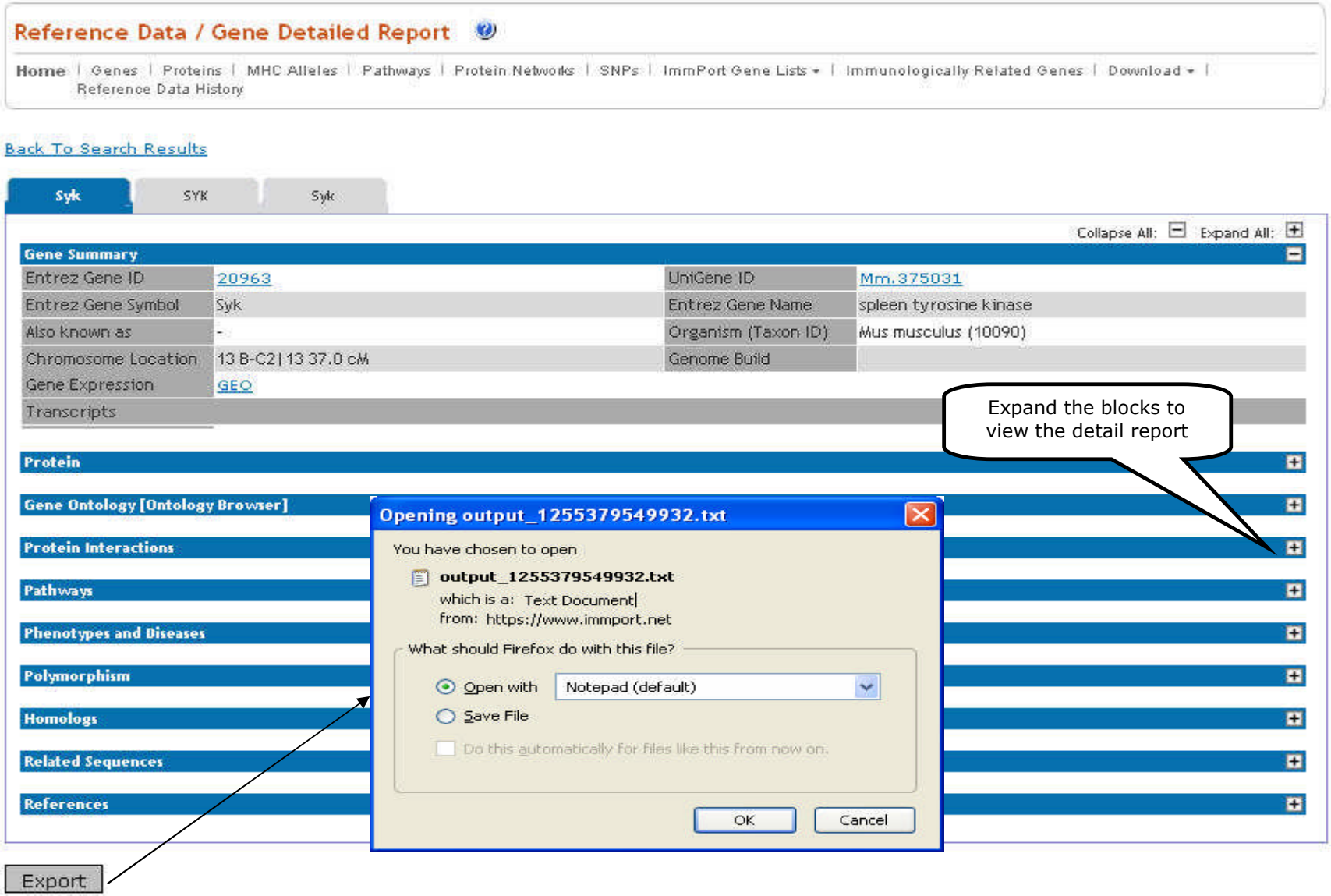

ImmPort Gene Detailed Report

Gene Summary, Protein, Gene Ontology (Ontology Browser)

Syk | SYK | Syk

Collapse All: Expand All:

Gene Summary

Entrez Gene ID	20963	UniGene ID	Mm.375031
Entrez Gene Symbol	Syk	Entrez Gene Name	spleen tyrosine kinase
Also known as	-	Organism (Taxon ID)	Mus musculus (10090)
Chromosome Location	13 B-C2 | 13 37.0 cM	Genome Build	
Gene Expression	GEO		
Transcripts			

Protein

RefSeq Peptide:	NP_035648.2 -
Protein gi:	56550045 -
Swiss-Prot/KB Accession1:	P48025 [Details] [View Sequence]
Swiss-Prot/KB Entry Name:	KSYK_MOUSE
Protein Name:	Tyrosine-protein kinase SYK

Gene Ontology [Ontology Browser]

Biological Process	GO:0000187	activation of MAPK activity
	GO:0050850	positive regulation of calcium-mediated signaling
	GO:0050731	positive regulation of peptidyl-tyrosine phosphorylation
	GO:0046777	protein amino acid autophosphorylation
Cellular Component	GO:0005737	cytoplasm
	GO:0042101	T cell receptor complex
	GO:0019815	B cell receptor complex
Molecular Function	GO:0000166	nucleotide binding
	GO:0004713	protein tyrosine kinase activity
	GO:0004672	protein kinase activity

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Protein Interactions, Pathways, Phenotype and Diseases, Polymorphisms, Homologs

Protein Interactions

(the number of interactions : 30) [view]

Interactors	Organism	Description	Type	Evidence	Database
0610011L14Rik :: Actb :: Ak1 :: Anxa1 :: Camkk2 :: Capza1 :: Celsr3 :: Cldn11 :: Csf1 :: Dync1h1 :: Eef1a1 :: Eef1g :: EG654473 :: Flnb :: Icam5 :: Iqgap1 :: Iqgap1 :: Itm2b :: Jak2 :: Map3k3 :: Map3k5 :: Mapk8ip2 :: Mark2 :: Mknk2 :: Myd88 :: Myh10 :: Myh11 :: Myh9 :: Myo1a :: Myo1c :: Myo1g :: Myo5a :: Opa1 :: Pik3r1 :: Ppp1r12c :: Ppp1r3a :: Rgs14 :: Rock2 :: Sirpa :: Slc7a1 :: Syk :: Tpm3	Mus musculus	Proteins identified by MS associating with tyrosine phosphoryllated Colony Stimulating Factor Receptor 1	unspecified	1	IntAct [1] InnateDB [1]
Abl1 :: Syk	Mus musculus	Syk physically interacts with Abl1	physical association	1	InnateDB [1]
Blk :: Syk	Mus musculus	Syk physically interacts with Blk	physical association	1	InnateDB [1]

Pathways

Database	Pathway name	genes in pathway	Detail
KEGG	Natural killer cell mediated cytotoxicity	156	[KEGG]
	Fc epsilon RI signaling pathway	79	[KEGG]
	B cell receptor signaling pathway	70	[KEGG]

Phenotypes and Diseases

Polymorphism

No records found.

Homologs

Homologene Group ID:	2390
Gene Symbols in Group:	Syk(Rattus norvegicus) / RCJMB04_19o18(Gallus gallus) / SYK(Homo sapiens) /
Protein GI & Accessions used in calculation.	6981620, NP_036890.1 / 71895287, NP_001026601.1 / 21361553, NP_003168.2 /

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Related Sequences, References

Related Sequences

	Nucleotide	Protein
Genomic	AC159192.2	None
Genomic	AC160765.4	None
Genomic	CH466546.1	EDL41113.1
Genomic	CH466546.1	EDL41114.1
Genomic	CH466546.1	EDL41115.1
mRNA	AK036736.1	BAE20505.1
mRNA	AK049207.1	None
mRNA	AK136363.1	BAE22946.1
mRNA	AK143564.1	BAE25438.1
mRNA	AK172119.1	None
mRNA	BB629720.1	None
mRNA	BC065121.1	AAH65121.1
mRNA	U25685.1	AAA87462.1
mRNA	U36776.1	AAA79996.1
mRNA	Z49877.1	CAA90034.1

Opening output_1255379549932.txt

You have chosen to open

output_1255379549932.txt
which is a: Text Document
from: https://www.immport.net

What should Firefox do with this file?

Open with Notepad (default)

Save File

Do this automatically for files like this from now on.

OK Cancel

References

PubMed ID	Year	Author	
17596518	2007	LeRouxD et al.	Syk-dependent actin dynamics regulate endocytic trafficking and processing of antigens internalized through the B-cell receptor.
17606633	2007	PalaciosEH et al.	Distinct roles for Syk and ZAP-70 during early thymocyte development.
17681949	2007	AbudulaA et al.	SLP-65 signal transduction requires Src homology 2 domain-mediated membrane anchoring and a kinase-independent adaptor function of Syk.

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