

GeneCards

<http://genecards.ym.edu.tw/>

<http://bioinformatics.weizmann.ac.il/cards/> (Mirror Site)



*GeneCards: human genes, maps,
proteins and diseases*

Unique Feature: This database provides links to both genetic and medical information

The GeneCards database integrates information from several major data sources dealing with human genes and their products. Created in 1997, it is continuously updated with over 18,000 entries, 11,800 of which have approved HUGO gene symbols (January 31, 2001 update). GeneCards is a project of the Crown Human Genome Center and Bioinformatics Unit at the Weizmann Institute of Science in Israel.

Types of data integrated into the GeneCard records include:

- Official name approved by the HUGO human gene nomenclature committee
- Synonyms approved by GDB (the Genome Database)
- Homologous genes in the mouse (orthologs; extracted from MGD)
- Cytogenetic locus of the gene and of its homologues extracted from OMIM and MGD, resp.)
- the name of its product(s) (i.e., the protein(s) encoded according to the information stored in the gene); main features of this/these product(s), like cellular functions, expression patterns, similarities with other proteins, involvement in diseases (extracted from SWISS-PROT)
- UniGene cluster of sequences related to the gene, that are stored in GenBank
- Disorders in which the gene is involved according to OMIM
- The coordinates as distance from the p terminus of the chromosome (in megabases) as calculated by UDB
- Research articles with links to abstract and full citations in PubMed
- Medical applications, like new therapies and diagnoses extracted from Doctor's Guide

Types of questions answered by this resource:

What genes are known risk factors in a given disease?

What does the protein product of a particular gene do?

Is this gene related to a disease or diseases?

Is it known whether this disease has a genetic etiological factor?

Where can I find information on the gene(s) for this disease?

What disease is associated with this specific genetic marker?

Easy Keyword Searching: Enter a disease, marker, protein, cell type, tissue or chromosome

Search *GeneCards*:

The GeneCard output fields are:

- Synonyms
- Chromosome Location
- Proteins (encoded by the gene)
- Sequences

- Similar genes in other organisms
- Disorders & Mutations
- Medical News
- Research Articles
- Additional Sources of Information on the web

GeneCard Tips:

1. GeneCards only contains human genes and mouse homologs
2. GeneCard is case sensitive!
3. Truncation symbol is an asterisk * and can be used as both a prefix or suffix : *

Search *GeneCards*:

4. Boolean AND, OR is capitalized
5. Punctuation symbols colon, period are recognized, such as Locus: p20 or

Search *GeneCards*:

Search Results

Search *GeneCards*:

Initial Output is a Mini Card:

RESULT:

1 GeneCard matches your *precise* query for "heart disease AND diabetes"; It is represented by a minicard.

(Click "Display" on the left to get the full GeneCard.

[Display
the complete
GeneCard
for this
gene
\(SELL\)](#)

[More like this](#)

Gene: SELL = selectin L (lymphocyte adhesion molecule 1) [Locus: 1q23-q25]

The following lines in the GeneCard text contribute to matching your query:

- APPLICATIONS: FDA Approves HDL-Cholesterol Test For Patients With Diabetes And Heart Disease



Full Record for SELL

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[[Back to GeneCards Homepage](#)]

GeneCard for gene SELL

Approved HUGO gene nomenclature committee symbol
SELL (selectin L (lymphocyte adhesion molecule 1))

Synonyms
(according to [GDB](#), [HUGO](#), [OMIM](#) and/or [SWISS-PROT](#))

- hLHR.c
- LNHR
- LAM1
- LSEL
- PLNHR
- LYAM1
- Lyam-1
- LAM-1
- lymph node homing receptor
- Leu-8
- selectin L (lymphocyte adhesion molecule 1)

SELL in other gene-based resources

[GDB ID: 120157](#) [LocusLink ID: 6402](#) [euGene ID: HUGo6402](#)

Chromosomal location:
(according to [LocusLink](#) or [OMIM](#) and/or [UCDB](#))

Chromosome: **1** *LocusLink cytogenetic band:* **1q23-q25**

Unified DataBase coordinate (from pter): **206,566,632 ± 352,328 bases**

Proteins:
(according to [SWISS-PROT](#), [MIPS](#), and/or [BLOCKS](#))

LEM1_HUMAN: L-selectin precursor (lymph node homing receptor) (leukocyte adhesion molecule-1) (lam-1) (leukocyte surface antigen leu-8) (lq1) (gp90-meb) (leukocyte-endothelial cell adhesion molecule 1) (lccam1) (cd62d). --gene: *sell* or *lyam1* or *lnhr*. [372 amino acids; 42 kd]

function: cell surface adhesion protein. mediate the adherence of lymphocytes to endothelial cells of high endothelial venules in peripheral lymph nodes.

subcellular location: type i membrane protein.

similarity: to other selectins/lecams.

similarity: contains 1 c-type lectin family domain.

similarity: contains 1 egf-like domain.

similarity: contains 2 sushi (scr) repeats.

database: prowl - [cd guide cd62l entry](#).

3D structures: PDB ids [1kjb](#)

MIPS Pedant Viewer: [15266](#)

Blocks protein families:

[BL00022](#) EGF-like domain proteins.

[BL00613](#) C-type lectin domain proteins.

[PF00084](#) Sushi domain (SCR repeat)

[PR00343](#) Selectin superfamily complement-binding repeat signature

[PR00343](#) Selectin superfamily complement-binding repeat signature

Sequences
(GenBank/EMBL/DBJ accessions according to [Unigene](#) or [GenBank](#) RefSeq according to [LocusLink](#) assembly according to [MIPS](#), [DOTS](#) and/or [UCSC](#))

Unigene Cluster for SELL: (Build 129; Jan 9 2001)
selectin L (lymphocyte adhesion molecule 1)
[Hs.82848](#) [[show with all ESTs](#)]

Unigene Representative Sequence: [M25280](#)

REFSEQ mRNAs: [NM_000655](#)

MIPS assembly: [H11056S1](#)

DOTS assembly:

[DT_315776](#) [DT_315777](#)

UCSC draft assembly: [M25280](#)

Additional Gene/cDNA sequence:
[A1256000](#) [AL021940](#) [M25280](#) [X16070](#) [X16150](#) [X17519](#)

Similar genes in other organisms:
(according to [MGD](#) Jan 22 2001)

Mammalian homologues:

gene	locus	description	Genbank accessions
mouse Sell	1 (86.60 cM)	selectin, lymphocyte	J04779 M25324 M36005 M36038 M64436 M64440 M64543 M64546 M64547 M64548 M64549 M64550 X14772

Disorders & Mutations
(in which this gene is involved, according to [OMIM](#), [SWISS-PROT](#), [Genatlas](#), [HGMD](#), [IGDB](#), and/or [ECGD](#))

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Medical News
(possibly related articles in [Doctor's Guide](#))

- [Thalomid Launched In U.S. For Leprosy Condition](#)
- [FDA Approves HDL-Cholesterol Test For Patients With Diabetes And Heart Disease](#)

Research Articles:
(in [PubMed](#))

- [Cell-cell contact mechanisms](#)
- [Human homologue of mouse lymph node homing receptor: evolutionary conservation at tandem cell interaction domains](#)

to find abstracts of **research articles** containing this gene name

Additional Sources of Information
on the web

name

[Genatlas biochemistry entry for SELL](#): L selectin, leukocyte adhesion molecule, 74kDa, constitutively expressed on monocytes, thymocytes, NK cells, granulocytes, lymph node homing receptor, binding to MCAM1, CD34

[Search RZPD for clones of SELL](#)

description

Links to **sequences**, linkage data, **maps**, and **papers**

Clone collection at the German Human Genome Project, Resource Center

search millions of **Web pages** with **Excite** to find articles, personal homepages, conferences, discussions, and other web sites related to **SELL!**

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