

Présentation et accès aux bases de données OMIM, GDB, EMBL/GenBank, SWISS-PROT, PDB et au système d'information IMGT

Rôles des bases de données

1 - Collecter les informations

Dans la littérature

Auprès des biologistes

Dans les autres bases de données

2 - Stocker et organiser les données

Dans une logique cohérente
(outils informatiques)

3 - Distribuer l'information

Distribuer des données contrôlées

Assurer une large diffusion

4 - Faciliter l'exploitation des données

Interfaces conviviales

Définition des critères de recherche

Recherche, comparaison de données

Quelques sources d'information

1 - Des exemples de serveurs WWW :

IGH	http://www.igh.cnrs.fr
PASTEUR	http://bioweb.pasteur.fr/intro-uk.html
PBIL	http://pbil.univ-lyon1.fr/
EBI	http://www.ebi.ac.uk
DKFZ	http://genome.dkfz-heidelberg.de
ExPASy	http://www.expasy.ch
NCBI	http://www.ncbi.nlm.nih.gov/
TIGR	http://www.tigr.org

Quelques sources d'information

2 - La littérature

Le premier Nucleic Acids Research de l'année
est dédié aux bases de données en Biologie

3 - DBCAT: The Public Catalog of Databases

maintenu par INFOBIOGEN
(activités interrompues en Juillet 2006)

4 - Catalogue de logiciels

Biocatalog: <http://www.ebi.ac.uk/biocat>
(606 entrées - fin 2004)

SoftwareSeek: <http://genamics.com/software/index.htm>

Bases de données de gènes et cartographies

OMIM NCBI, USA (<http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=OMIM/>)
Catalogue des gènes humains et des désordres génétiques et cliniques

GDB The Genome Database, RTI, Caroline du nord (<http://www.gdb.org/>)
Cartographie des gènes humains (gènes, polymorphismes, mutations, sondes, cartes génétiques, GenBank)

Entrez gene NCBI, USA
(<http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=gene/>)
Collections de liens (locus, cartographie, medline, OMIM, Entrez, GenBank, Unigene, polymorphisme) associés à chacun des gènes étudiés

GeneCards TM, Weizmann Institute, Israël
(<http://www.genecards.org/index.shtml/>)
Base de données de gènes automatiquement générée qui intègre les informations sur les gènes, leurs produits, et leurs implications dans les maladies

GENATLAS Paris, France (<http://www.dsi.univ-paris5.fr/genatlas/>)
Collection d'informations et de données (gènes, maladies, marqueurs)

OMIM Online Mendelian Inheritance in Man

Base de données de gènes et maladies genetiques

Créée en 1968 par **Dr. Victor A. McKusick**

Localisation Maintenue à l'Université Johns Hopkins, Baltimore, Maryland (USA)
L'interface WWW est développée par le NCBI (National Center for Biotechnology Information)

Regroupe:

- une base de données : catalogue de maladies génétiques et de gènes associés
- des cartes cytogénétiques des gènes décrits dans la base de données (recherche par gènes, localisation chromosomiques ou par maladies)

Contient **actuellement 17140 entrées (Octobre 2006)**

Distribution **<http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=OMIM>**

OMIM - Online Mendelian Inheritance in Man - Mozilla Firefox

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http://www.ncbi.nlm.nih.gov/Omim/mimstats.html

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Online Mendelian Inheritance in Man

Johns Hopkins University

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OMIM Statistics for October 15, 2006

Number of Entries

	Autosomal	X-Linked	Y-Linked	Mitochondrial	Total
* Gene with known sequence	10469	484	48	37	11038
+ Gene with known sequence and phenotype	353	33	0	0	386
# Phenotype description, molecular basis known	1802	159	2	26	1989
⌘ Mendelian phenotype or locus, molecular basis unknown	1415	137	4	0	1556
Other, mainly phenotypes with suspected mendelian basis	2025	144	2	0	2171
Total	16064	957	56	63	17140

17 Octobre 2006

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http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=OMIM&cmd=Limits

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MitoMap

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Davis Human/Mouse

Homology Maps

Coriell

- To Search all fields, leave the following boxes unchecked.
- To narrow the search, check the boxes with specific fields' names, or use [search field tags](#) enclosed in square brackets, e.g. aaa[title].
- [Boolean operators](#) AND, OR, NOT must be in upper case.

Search in Field(s): clear

☐ Title ☐ MIM number ☐ Allelic Variants

☐ Text ☐ References ☐ Clinical Synopsis

☐ Gene Map Disorder ☐ Contributors

Chromosome(s): clear

☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8

☐ 9 ☐ 10 ☐ 11 ☐ 12 ☐ 13 ☐ 14 ☐ 15 ☐ 16

☐ 17 ☐ 18 ☐ 19 ☐ 20 ☐ 21 ☐ 22 ☐ X ☐ Y

☐ mitochondrial ☐ unknown

MIM Number Prefix: clear

☐ * gene with known sequence

☐ + gene with known sequence and phenotype

☐ # phenotype description, molecular basis known

☐ % mendelian phenotype or locus, molecular basis unknown

☐ none other, mainly phenotypes with suspected mendelian basis

Only Records with: clear

☐ Allelic Variants

☐ Clinical Synopsis

☐ Gene map locus

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Use the format YYYY/MM/DD; month and day are optional.

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☐ 1: *601406
B-CELL CLL/LYMPHOMA 7A; BCL7A
Gene map locus [12q24.1](#) Links

☐ 2: #151400
LEUKEMIA, CHRONIC LYMPHOCYTIC; CLL
Gene map locus [13q14.3, 13q14.3, 12q24, 11q13](#) Links

☐ 3: *168461
CYCLIN D1; CCND1
CCND1/IGHG1 FUSION GENE, INCLUDED
Gene map locus [11q13](#) Links

☐ 4: +151430
B-CELL CLL/LYMPHOMA 2; BCL2
FOLLICULAR LYMPHOMA, INCLUDED
Gene map locus [18q21.3](#) Links

☐ 5: *609004
B-CELL CLL/LYMPHOMA 9-LIKE; BCL9L
Gene map locus [11q23.3](#) Links

Rechercher : CLL Occurrence suivante Occurrence précédente Surligner tout Respecter la casse

OMIM FAQs - Mozilla Firefox

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http://www.ncbi.nlm.nih.gov/Omim/omimfaq.html#numbering_system OK OMIM

5. **Symbols: What do the symbols preceding a MIM number represent? (asterisk (*), number (#), plus (+), percent (%), caret (^))**

An asterisk (*) before an entry number indicates a gene of known sequence.

A number symbol (#) before an entry number indicates that it is a descriptive entry, usually of a phenotype, and does not represent a unique locus. The reason for the use of the #-sign is given in the first paragraph of the entry. Discussion of any gene(s) related to the phenotype resides in another entry(ies) as described in the first paragraph.

A plus sign (+) before an entry number indicates that the entry contains the description of a gene of known sequence and a phenotype.

A percent sign (%) before an entry number indicates that the entry describes a confirmed mendelian phenotype or phenotypic locus for which the underlying molecular basis is not known.

No symbol before an entry number generally indicates a description of a phenotype for which the mendelian basis, although suspected, has not been clearly established or that the separateness of this phenotype from that in another entry is unclear.

A caret symbol (^) before an entry number means the entry no longer exists because it was removed from the database or moved to another entry as indicated.

See also the description of [symbols used in the disorder column of the OMIM Gene Map and Morbid Map](#).

Rechercher : CLL Occurrence suivante Occurrence précédente Surligner tout Respecter la casse Phrase non tr

A number sign (#) is used with this entry because chronic lymphocytic leukemia is associated with mutations in several genes. CLL can be caused by mutation in the BCL1 gene (CCND1; [168461](#)) on chromosome 11q13 and can be related to overexpression of the BCL2 gene ([151430](#)), which is in a B-lymphocyte apoptotic pathway, on chromosome 18q21.3. Another predisposing genetic factor is the 1513A-C allele ([602566.0001](#)) of the P2RX7 gene on chromosome 12q24, which has a reduced function of the antiapoptotic effect of this gene. A polymorphism in the ARL11 gene ([609351.0001](#)) on chromosome 13q14 is associated with susceptibility to chronic lymphocytic leukemia, as is a mutation in the microRNA gene MIRN16-1 ([609704.0001](#)) on chromosome 13q14.3. A susceptibility locus has been mapped to chromosome 11p11 ([609630](#)). 🧬

Chronic lymphocytic leukemia seems especially prone to familial occurrence. Studies of a large number of families (Gunz et al., 1975)

OMIM - LEUKEMIA, CHRONIC LYMPHOCYTIC; CLL - Mozilla Firefox

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http://www.ncbi.nlm.nih.gov/entrez/dispomim.cgi?id=151400

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contains the translocation breakpoint junction. See [109560](#). 💡

[Horwitz et al. \(1996\)](#) reported evidence of anticipation in autosomal dominant chronic lymphocytic leukemia ($P = 0.008$). In 18 affected individuals from 7 pedigrees with autosomal dominant CLL, the mean age of onset in the parental generation was 66 years, versus 51 years in the younger generation. Based on this evidence of anticipation, [Horwitz et al. \(1996\)](#) suggested that dynamic mutations of unstable DNA sequence repeats could be a common mechanism of inherited hematopoietic malignancy. They proposed 3 possible candidate chromosomal regions for familial leukemia with anticipation: 21q22.1-22.2, 11q23.3 in the vicinity of the CBL2 gene ([165360](#)), and 16q22 in the vicinity of the CBFβ gene ([121360](#)). 💡

In a study of 13 families with chronic lymphocytic leukemia in 2 successive generations, [Goldin et al. \(1999\)](#) found evidence of anticipation, i.e., earlier onset of CLL in generation 2. They ruled out various biases that could account for the finding, and stated that they planned to look for expanded trinucleotide repeats in candidate genes in families showing anticipation. 💡

[Wiley et al. \(2002\)](#) presented evidence that a single-nucleotide polymorphism of the purinergic receptor P2RX7 (glu496 to ala; [602566.0001](#)) occurs with increased frequency in patients with CLL, suggesting that it is a susceptibility factor.

In a review of molecular diagnosis of hematologic cancers, [Staudt \(2003\)](#) noted that studies of immunoglobulin gene mutations in CLL cells suggested that CLL may be 2 distinct diseases. The presence of somatic mutations in the immunoglobulin genes of CLL cells defined a group of patients with stable or slowly progressive disease requiring late or no treatment. By contrast, the absence of immunoglobulin gene mutations in CLL cells defined a group of patients who had a progressive clinical course requiring early treatment. These 2 subtypes of CLL may also differ with respect to oncogenic mechanisms, since deletion of the ATM locus ([607585](#)) on chromosome 11q is associated with the absence of immunoglobulin gene mutations in CLL and with shortened survival in some patients ([Staudt, 2003](#)). Expression of the single most discriminating gene, ZAP70 ([176947](#)), distinguished these 2 subtypes with 93% accuracy ([Wiestner et al., 2003](#)). Whereas analysis of the immunoglobulin gene sequence would be a challenging and expensive test to introduce into routine clinical practice, a quantitative RT-PCR assay or protein-based assay for the expression of ZAP70 was feasible, as indicated in the work of [Crespo et al. \(2003\)](#). 💡

[Espinete et al. \(2003\)](#) described a sister and brother, 63 and 61 years old at examination, respectively, with B-cell CLL with different abnormal karyotypes detected by conventional cytogenetics: deletion of 7q32 in the sister and an insertion in 1p36 and deletion of 6q21 in the brother. Both sibs had a del(13)(q14) at the D13S319 locus, detected by interphase FISH. 💡

[Hamblin \(2004\)](#) pointed out that with sensitive techniques, a monoclonal population of B lymphocytes that is indistinguishable from CLL cells may be found in the blood of 3.5% of persons older than 40 years of age.

[Goldin et al. \(2004\)](#) used the Swedish Family Cancer Database to test for increased familial risks of CLL and other lymphoproliferative tumors

Rechercher : muta Occurrence suivante Occurrence précédente Surligner tout Respecter la casse

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IMMUNOGLOBULIN: HEAVY EPSILON CHAIN; IGHE
IMMUNOGLOBULIN: HEAVY EPSILON CHAIN PSEUDOGENE 1, INCLUDED; IGHEP1, INCLUDED
Gene map locus [14q32.33](#)

2: [*604815](#) Links
LEUKOCYTE IMMUNOGLOBULIN-LIKE RECEPTOR, SUBFAMILY B, MEMBER 2; LILRB2
Gene map locus [19q13.4](#)

3: [*604811](#) Links
LEUKOCYTE IMMUNOGLOBULIN-LIKE RECEPTOR, SUBFAMILY B, MEMBER 1; LILRB1
Gene map locus [19q13.4](#)

4: [+147200](#) Links
IMMUNOGLOBULIN KAPPA CONSTANT REGION; IGKC
KAPPA-CHAIN DEFICIENCY, INCLUDED
Gene map locus [2p12](#)

5: [*604812](#) Links
LEUKOCYTE IMMUNOGLOBULIN-LIKE RECEPTOR, SUBFAMILY A, MEMBER 2; LILRA2
Gene map locus [19q13.4](#)

6: [*604821](#) Links
LEUKOCYTE IMMUNOGLOBULIN-LIKE RECEPTOR, SUBFAMILY B, MEMBER 4; LILRB4
Gene map locus [19q13.4](#)

7: [*604405](#) Links

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POLYMERIC IMMUNOGLOBULIN RECEPTOR; PIGR
Gene map locus [1q31.q42](#)

OMIM - IMMUNOGLOBULIN HEAVY VARIABLE CLUSTER; IGHV - Mozilla Firefox

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[*147070](#) Links

IMMUNOGLOBULIN HEAVY VARIABLE CLUSTER; IGHV

Gene map locus [14q32.33](#)

TEXT

The amino acid sequence of the variable region of the heavy chain of immunoglobulin indicates its genetic uniqueness. In fact, four types are recognized and designated V(H) I-IV. Presumably, they are determined by separate but closely linked loci. Allotypic variations in the variable (V) region of immunoglobulin chains have been extensively studied in the rabbit. The first allotypic determinant to be identified in the V region of human immunoglobulins was designated Hvl ([Wang et al., 1978](#)). Hvl is located in the V region of human immunoglobulin heavy (H) chains of G, M, and A classes. It is inherited as an autosomal dominant with a gene frequency in whites of 0.189 and in blacks of 0.278. [Pandey et al. \(1980\)](#) demonstrated lack of linkage between Hvl and the two C-region markers: Gm (IgG H chains) and Km (kappa-type light chains). Gene conversion provides an explanation for the maintenance of a large number of variable region genes for immunoglobulins that do not deviate drastically. It is one of the two classes of mechanisms known that can act on families of genes to maintain their sequence homology; the other is unequal crossing over ([Baltimore, 1981](#)). [Walter and Cox \(1988\)](#) studied the heavy chain variable region V(H) genes to determine the extent of genetic variation and the distribution of selected polymorphic loci. Through the use of restriction endonuclease site polymorphisms, they found linkage disequilibrium between the V(H2) and V(H3) subclass loci and extensive variation. Their preliminary estimate of the number of V(H) genes was 50. The authors hypothesized that the genetic variation observed at these loci may be associated with genetic differences in immune response and with varying susceptibility to autoimmune disorders. [Schroeder et al. \(1988\)](#) found that the

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MIM Gene map - Mozilla Firefox

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http://www.ncbi.nlm.nih.gov/Omim/getmap.cgi?147070

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PubMed Nucleotide Protein Genome Structure PopSet Taxonomy OMIM

The OMIM Gene map presents the cytogenetic map location of disease genes and other expressed genes described in OMIM. See the [OMIM Morbid Map](#) for a list of disease genes organized by disease. For more refined maps of genes and DNA segments click on the **Location** to invoke NCBI Entrez [Map Viewer](#).

Search for: Find Find Next (from the current location)

- Enter gene symbol, chromosomal location, or disorder keyword to search for, e.g. "CYP1", "5", "1pter", "Xq", or "alzheimer".
- You must capitalize X and Y to search for those chromosomes.

14q32.33, IGHV@ to Chr.14, PHOBS [<<Move Up Move Down>>](#)

Location	Symbol	Title	MIM #	Disorder	Comments	Method	Mouse
14q32.33	IGHV@	Immunoglobulin heavy polypeptide, variable region (many genes)	147070		~250 genes; orientation: cen-PI-D14S1-IGH-IGHV--qter; 3'centromeric, 5' telomeric; IgM telomeric to IgG	REa, RE, A	
Chr.14	ACHM1, RMCH1	Achromatopsia-1	603096	Achromatopsia-1 (2)		Ch	
Chr.14	ACN, KIAA0670	Acinus	604562			R	
Chr.14	ARHJ, TCL	Ras homolog gene family, member J	607653			REc	
Chr.14	ASB2	Ankyrin repeat-containing SOCS box protein 2	605759			R	12(Asb2)
Chr.14	CAQ14	Circulating adiponectin QTL on chromosome 14	606771	{Circulating adiponectin QTL} (2)		Fd	
Chr.14	CFL2	Cofilin 2, muscle	601443			Psh	
Chr.14	DAAM1,	Dishevelled-associated activator of	606626			P	

Rechercher : muta Occurrence suivante Occurrence précédente Surligner tout Respecter la casse

Map Viewer - Mozilla Firefox

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http://www.ncbi.nlm.nih.gov/mapview/maps.cgi?taxid=9606&CHR=14&maps=genes-r,pheno,morbi OK OMIM

Human genome overview page (Build 36.2)
Human genome overview page (Build 35.1)
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Data As Table View
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Region Shown:
14q32.33
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103.4M
103.5M
103.6M
103.7M
103.8M
103.9M
104M
104.1M
104.2M
104.3M
104.4M
104.5M
104.6M
104.7M
104.8M

PPP1R13B
C14orf2
LOC647286
TDRD9
LOC374569
KIF26A
LOC730181
LOC400258
LOC730185
FLJ42486
C14orf151
C14orf173
ADSSL1
SIVA
AKT1
LOC730267
RPS2P4
KIAA0284
PLD4
C14orf78
LOC730269
C14orf79
CDCA4
GPR132
JAG2
NUDT14
BTBD6
BRF1

147020
147110
606771
603096
608251
606918
213600
138800
607198
251600
608318
164210
605799
123270
600675
164730

Gene	Accession	Map	Position	Description
LOC730176	pr	14q32.33		hypothetical protein LOC7301
XRCC3	OMIM pr hm sts	14q32.3		X-ray repair complementing d
C14orf2	OMIM pr sts	14q32.33		chromosome 14 open reading
LOC647286	pr hm	14q32.33		similar to chromosome 1 open
TDRD9	pr hm	14q32.33		tudor domain containing 9
KIF26A	pr hm sts	14q32.33		kinesin family member 26A
IGHV@	OMIM pr	14q32.33		immunoglobulin heavy variab
LOC400258	pr hm sts	14q32.33		similar to RIKEN cDNA A5300
LOC730185	pr	14q32.33		hypothetical protein LOC7301
ADSSL1	pr hm sts	14q32.33		adenylosuccinate synthase li
SIVA	OMIM pr hm	14q32.33		CD27-binding (Siva) protein
RPS2P4		14q32.33		ribosomal protein S2 pseudog
LOC730269	pr	14q32.33		similar to periaxin
C14orf79	pr hm sts	14q32.33		chromosome 14 open reading
CDCA4	pr hm	14q32.33		cell division cycle associated
GPR132	OMIM pr hm sts	14q32.3		G protein-coupled receptor 13
JAG2	OMIM pr hm sts	14q32		jagged 2
NUDT14	OMIM pr hm sts	14q32.33		nudix (nucleoside diphosphat
BRF1	OMIM pr hm sts	14q32.33		BRF1 homolog, subunit of RN
LOC647310	pr hm	14q32.33		hypothetical protein LOC6473
MTA1	OMIM pr hm	14q32.3		metastasis associated 1

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14p12
14p11.2
14p11.1
14p11.2
14q12
14q13
14q21
14q22
14q23
14q24
14q31
14q32

103.3M
103.4M
103.5M
103.6M
103.7M

PPP1R13B
C14orf2
LOC647286
TDRD9
LOC374569
MIRN203
KIF26A

147020
147110
606771
603096
608251
606918
213600
138800
607198
251600
608318
164210
605799
123270
600675
164730

KNS2	OMIM pr hm sts	14q32.3	kinesin 2
LOC730176	pr	14q32.33	hypothetical protein LOC730176
XRCC3	OMIM pr hm sts	14q32.3	X-ray repair complementing
ZFYVE21	pr hm sts	14q32.33	zinc finger, FYVE domain co
PPP1R13B	OMIM pr hm sts	14q32.33	protein phosphatase 1, regu
C14orf2	OMIM pr sts	14q32.33	chromosome 14 open readin
LOC647286	pr hm	14q32.33	similar to chromosome 1 ope
TDRD9	pr hm	14q32.33	tudor domain containing 9
IGHV4-30-1		14q32.33	immunoglobulin heavy varie
IGHV4-30-4	pr	14q32.33	immunoglobulin heavy varie
IGHV7-4-1	pr	14q32.33	immunoglobulin heavy varie
IGHV@	OMIM pr	14q32.33	immunoglobulin heavy varie
IGHR	OMIM	14q32.33	immunoglobulin heavy chain
IGD1	OMIM pr	14q32.33	D (diversity) region of heavy
IGHV3-H	pr	14q32.33	immunoglobulin heavy varie
IGHV4-30-2		14q32.33	immunoglobulin heavy varie
LOC374569	pr hm	14q32.33	Similar to Lysophospholipase
KIF26A	pr hm sts	14q32.33	kinesin family member 26A

Summary of Maps:
Map 1: Genes On Sequence [Table View](#)
Region Displayed: 103M.103.730K bp [Download/View Sequence/Evidence](#)

Rechercher : muta Occurrence suivante Occurrence précédente Surligner tout Respecter la casse

Entrez Gene: IGHV7-4-1 immunoglobulin heavy variable 7-4-1 [Homo sapiens] - Mozilla Firefox

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http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=gene&cmd=retrieve&dopt=full_report&list_uids: OK OMIM

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Search Gene for Go Clear

Limits Preview/Index History Clipboard Details

Display Full Report Show 5 Send to

All: 1 Current Only: 1 Genes Genomes: 0 SNP GeneView: 0

☐ 1: IGHV7-4-1 immunoglobulin heavy variable 7-4-1 [Homo sapiens]
 GeneID: 57289 updated 04-Oct-2006

Summary

Official Symbol IGHV7-4-1 provided by HGNC

Official Full Name immunoglobulin heavy variable 7-4-1 provided by HGNC

Primary source [HGNC:5665](#)

See related [IMGT/GENE-DB:IGHV7-4-1](#)

Gene type other

Organism [Homo sapiens](#)

Lineage Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Haplorrhini; Catarrhini; Hominidae; Homo

Also known as IGHV741; IGHV7-41

Genomic context

chromosome: 14; Location: 14q32.33 [See IGHV7-4-1 in MapViewer](#)

Bibliography

Entrez Gene Home

Table Of Contents

Summary
 Genomic context
 Bibliography
 Related Sequences
 Additional Links

Links Explain

Conserved Domains
 Map Viewer
 Nucleotide
 Protein
 PubMed
 Taxonomy
 GDB
 HGNC
☒ [IMGT/GENE-DB](#)

Entrez Gene Info

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Rechercher : muta Occurrence suivante Occurrence précédente Surligner tout Respecter la casse

Entrez Gene: IGHV7-4-1 immunoglobulin heavy variable 7-4-1 [Homo sapiens] - Mozilla Firefox

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http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=gene&cmd=retrieve&dopt=full_report&lis OK OMIM

chromosome: 14; Location: 14q32.33 [See IGHV7-4-1 in MapViewer](#) [Feedback](#)
[Subscriptions](#)

Bibliography

Related Articles in Pubmed

[PubMed](#) links

GeneRIFs: Gene References Into Function [What's a GeneRIF?](#)

Submit: [New GeneRIF](#)

Related Sequences

	Nucleotide	Protein
Genomic	L10057.1	AAA36058.1
Genomic	Z12323.1	CAA78193.1

Additional Links

- IMGT Repertoire for individual human immunoglobulin and T cell receptor genes [IGHV7-4-1](#)








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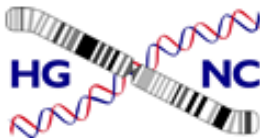

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IGHV7-4-1 - Mozilla Firefox

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http://www.gene.ucl.ac.uk/nomenclature/data/get_data.php?hgnc_id=5665
 OK
  OMIM

Symbol Report: IGHV7-4-1






About HGNC
Gene Search
Guidelines
Gene Submission
Downloads
Home

Giving unique and meaningful names to every human gene

Quick Gene Search

Core Data		Database Links			
Approved Symbol +	IGHV7-4-1	Accession Numbers +			
Approved Name +	immunoglobulin heavy variable 7-4-1	L10057	GenBank	UCSC Browser	UCSC Index
HGNC ID +	HGNC:5665	Entrez Gene ID (mapped data) +			
Status +	Approved	57289	Gene	Map Viewer	
Chromosome +	14q32.32-q32.33	Misc IDs +			
Previous Symbols +		IMGT/GENE-DB			
Previous Names +					
Aliases +					

Rechercher :
 Occurrence suivante
 Occurrence précédente
 Surigner tout
☐ Respecter la casse

GDB **Genome DataBank**

Créée en 1990

**à l'Université Johns Hopkins,
Baltimore, Maryland (USA)**

Localisation

maintenue de 1999 à 2002 par le BiSC, Toronto
depuis novembre 2003 par le RTI (Caroline du nord)

Regroupe :

- les gènes,
- les clones,
- les marqueurs cytogénétiques, les cartographies
- RFLP, les polymorphismes
- les allèles

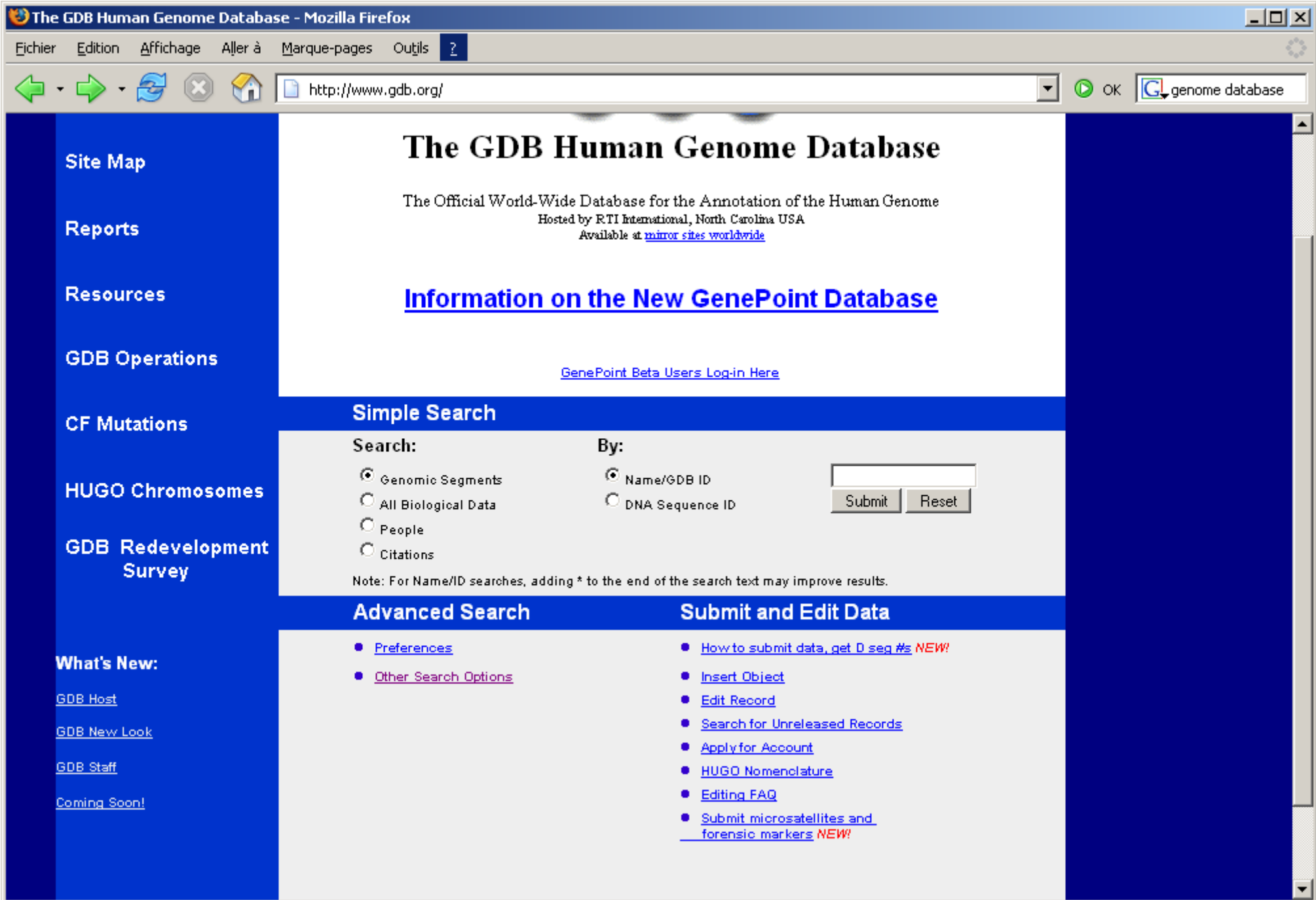
**Contient les données relatives à la structure du génome humain, sa diversité
et à son évolution**

Outils de soumission des données

GenePoint : pour l'annotation du génome
Système interactif pour commenter les données

Distribution

Web: <http://www.gdb.org/>



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Gene Genetic Disorders by Chromosome

Genetic Disorders by Chromosome

Last Updated: Sun Oct 23 22:00:01 EDT 2005
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Chromosome	Count	DisplayMap
Chromosome Unknown or Multiple Locations	97	
Chromosome 1	131	Display Map
Chromosome 2	82	Display Map
Chromosome 3	75	Display Map
Chromosome 4	60	Display Map
Chromosome 5	58	Display Map
Chromosome 6	85	Display Map
Chromosome 7	70	Display Map
Chromosome 8	53	Display Map
Chromosome 9	68	Display Map
Chromosome 10	42	Display Map
Chromosome 11	98	Display Map
Chromosome 12	71	Display Map
Chromosome 13	26	Display Map
Chromosome 14	44	Display Map
Chromosome 15	36	Display Map
Chromosome 16	54	Display Map
Chromosome 17	99	Display Map
Chromosome 18	21	Display Map
Chromosome 19	71	Display Map
Chromosome 20	27	Display Map

Find: immuno Find Next Find Previous Highlight Match case

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←→↻✕🏠

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GDB

Central Node

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- [Maps within a Region](#)
- [Genes by Name or Symbol](#)

FIND A GENE

Sequence-Based Search Forms

- [GDB e-PCR](#)
- [GDB e-PCR Database Lookup](#)

Generic Search Forms

- [Amplimers \(PCR Primer pairs\)](#)
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- [Clones](#)
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- Lists of Genes by Chromosome

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	X	Y

- Lists of Genes by Symbol Name

A	B	C	D	E	F	G	H	I
J	K	L	M	N	O	P	Q	R
S	T	U	V	W	X	Y	Z	

For more information, contact help@gdb.org. For best viewing, use Netscape 3.0 or higher

Search by Gene Name or Symbol - Mozilla Firefox

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http://www.gdb.org/gdb-bin/fg/genes

🔍 OK🔍 genome database

GDB

Central Node

Search by Gene Name or Symbol

Gene Name/Symbol: equalsIGHV1-2SubmitHelp

Please send questions or suggestions to help@gdb.org

Results

Select the Accession ID for the entire gene entry.

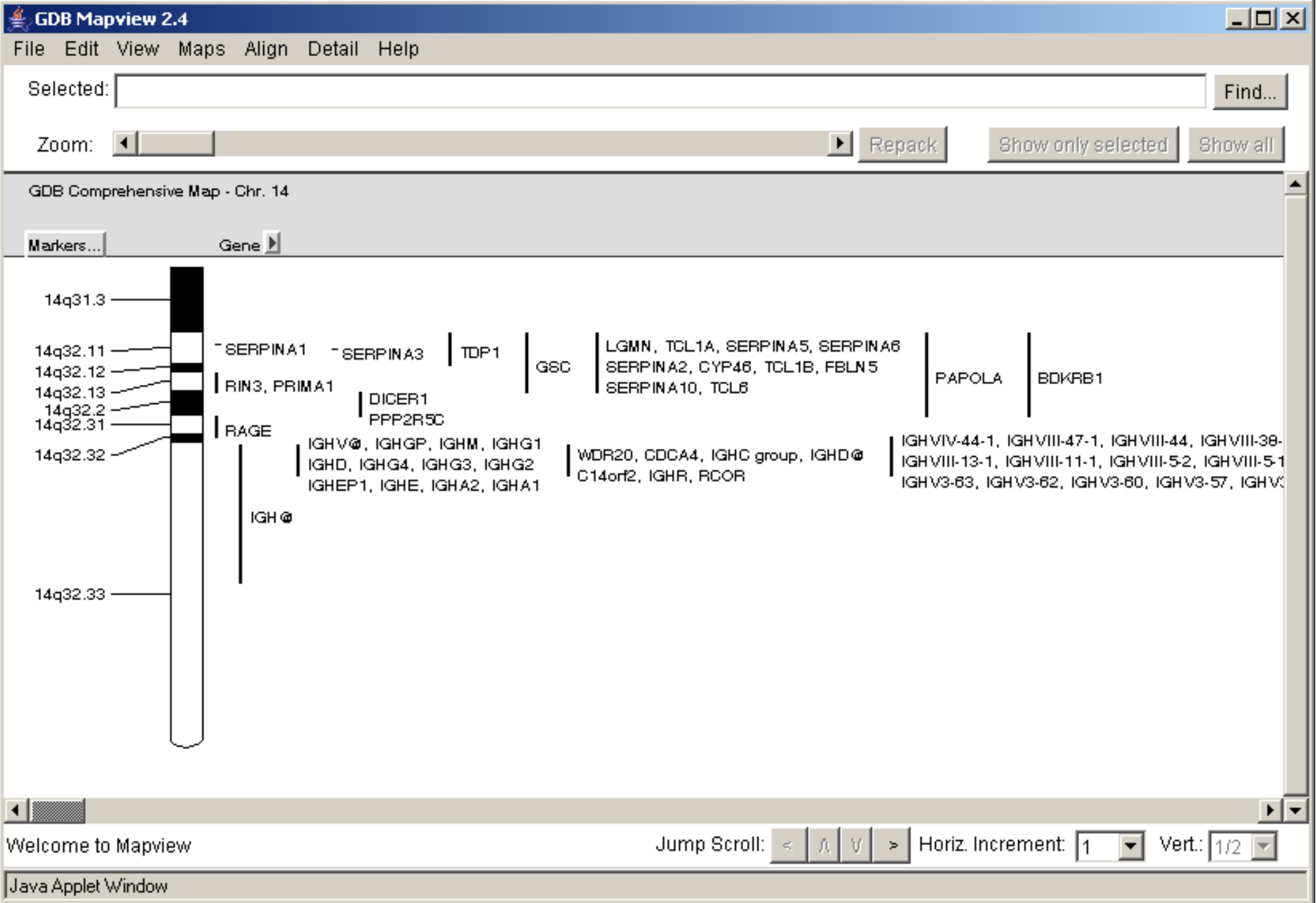
Symbol	Aliases	Cytogenetic Location	Accession ID
IGHV1-2	immunoglobulin heavy variable 1-2 Immunoglobulin heavy variable 1-2	14q32.32-q32.33	GDB:9931660

[View Maps Containing this Gene](#)

[Nearby Genes & Markers](#)[Reagents](#)[Contacts](#)[Citations](#)[Polymorphisms](#)[Mutations](#)[Gene Products](#)

Links to external databases:

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20967 genes / 3744 phenotypes / 62486 citations

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criteria

- DNA
- RNA
- exp/sub-loc
- protein
- pathology
- ▶ all sections

PHENOTYPE

full search

CITATION

full search

SEARCH TOOLS

- . Candidate genes in a chromosome region
- . Gene and protein

GENE DATABASE**full search***optional*DNA type protein category location to undisplay the corresponding disease(s) involved, unclick here ☒Symbol Name Id OMIM

(if used, full text search terms will be ignored)

full text
query :

enter one or more terms separated by a blank (right truncation is assumed when a term's length > 3 characters, otherwise use the % truncation character). Truncate recognised terms where the end can diverge (ie abnormal for abnormality, abnormalities, abnormal). When more than one term is used, only the pages containing all terms will be displayed. Avoid terms such as of, the, and, gene, protein. Avoid using too many search terms.

full text query

find

reset

to search a phenotype click [here](#)

www.genatlas.org - Mozilla Firefox

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RNA

exp/sub-loc

protein

pathology

all sections

PHENOTYPE

full search

CITATION

full search

SEARCH TOOLS

. Candidate genes in a chromosome region

. Gene and protein structure (exon skipping)

Awstats user statistics

300	IGHV1-F	14q32.33	immunoglobulin heavy variable 1-F (provisional)
301	IGHV1OR15-1	15q11.2	immunoglobulin heavy variable 1/OR15-1
302	IGHV1OR15-2	15q11.2	immunoglobulin heavy variable 1/OR15-2
303	IGHV1OR15-3	15q11.2	immunoglobulin heavy variable 1/OR15-3
304	IGHV1OR15-4	15q11.2	immunoglobulin heavy variable 1/OR15-4
305	IGHV1OR15-5	15q11.2	immunoglobulin heavy variable 1/OR15-5
306	IGHV1OR15-6	15q11.2	immunoglobulin heavy variable 1/OR15-6
307	IGHV1OR15-9	15q11.2	immunoglobulin heavy variable 1/OR15-9
308	IGHV1OR16-1	16p11.2	immunoglobulin heavy variable 1/OR16-1
309	IGHV1OR16-2	16p11.2	immunoglobulin heavy variable 1/OR16-2
310	IGHV1OR16-3	16p11.2	immunoglobulin heavy variable 1/OR16-3
311	IGHV1OR16-4	16p11.2	immunoglobulin heavy variable 1/OR16-4
312	IGHV1-12	14q32.33	immunoglobulin heavy variable 1-12
313	IGHV1-14	14q32.32-q32.33	immunoglobulin heavy variable 1-14
314	IGHV1-17	14q32.33	immunoglobulin heavy variable 1-17
315	IGHV1-18	14q32.32-q32.33	immunoglobulin heavy variable 1-18
316	IGHV1-2	14q32.33	immunoglobulin heavy variable 1-2
317	IGHV1-24	14q32.33	immunoglobulin heavy variable 1-24
318	IGHV1-3	14q32.33	immunoglobulin heavy variable 1-3
319	IGHV1-45	14q32.33	immunoglobulin heavy variable 1-45
320	IGHV1-46	14q32.33	immunoglobulin heavy variable 1-46
321	IGHV1-58	14q32.33	immunoglobulin heavy variable 1-58
322	IGHV1-69	14q32.33	immunoglobulin heavy variable 1-69
323	IGHV1-8	14q32.33	immunoglobulin heavy variable 1-8
324	IGHV@2	15q11.2	immunoglobulin, heavy chain variable cluster 2, belonging to subgroups 1, 3, 4 (8 sequences), likely pseudogenes

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GENATLAS : GENE Database[Home Page](#)**GENE**

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RNA
exp/sub-loc
protein
pathology
▶ all sections

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CITATION

full search

SEARCH TOOLS

. Candidate genes in a chromosome region

. Gene and protein structure (exon skipping)



Awstats user statistics

[omim](#)[HGNC](#)[sequences](#)[genelynx](#)[citations](#)[genecards](#)[Entrez Gene](#)[Ensembl](#)[source](#)[Unigene](#)[IMGT](#)[linkage](#)**FLASH GENE**

Symbol	IGHV1-2	<i>last update : 28/10/2005</i>
HGNC name	immunoglobulin heavy variable 1-2	
HGNC id	5550	
Location	14q32.33	
Synonym symbol(s)	HGNC5550, IGHV12	

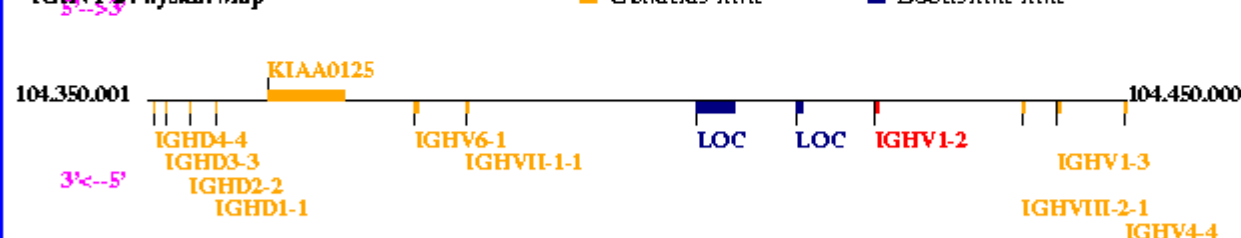
[DNA](#)[RNA](#)[EXP/sub-loc](#)[PROTEIN](#)[PATHOLOGY](#)**DNA**

TYPE	functioning gene		
SPECIAL FEATURE	component of a cluster		
	text	component of the cluster of the variable IGH genes which is located at the distal end of IGH@ (see symbol IGHV@)	
MAPPING	cloned	linked	status

Physical map**IGHV1-2 Physical Map**

Genatlas link

Locuslink link



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PHENOTYPE

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SEARCH TOOLS

. Candidate genes in a chromosome region

. Gene and protein structure (exon skipping)

RNA

Size 618 bp

TRANSCRIPTS type

EXPRESSION / SUBCELLULAR LOCALIZATION

EXPRESSION (based on citations)

expressed in

System	Organ 1	organ 2	organ 3	organ 4	level
Lymphoid/Immune	lymph node				
	spleen				
	thymus				

organ(s)

System	Tissue	S_Tissue	Ss_Tissue	level
Blood/Hematopoietic	bone marrow			
Lymphoid				

tissue

cell lineage

cell lines

fluid/secretion

at STAGE

SUBCELLULAR LOCALIZATION extracellular

see plasma mb ontology plasma membrane

see intracellular ontology intracellular

intracellular,cytoplasm

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PROTEIN

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DNA

RNA

exp/sub-loc

protein

pathology

► all sections

PHENOTYPE

full search

CITATION

full search

SEARCH TOOLS

. Candidate genes in a chromosome region

. Gene and protein structure (exon skipping)

Awstats user statistics

PHYSICAL PROPERTIES 117 aa

STRUCTURE

motifs/domains

a sequence of some 110 aminoacids folded to form a compact immunoglobulin domain with both ends joined together by a disulfide bond, made of three hypervariable regions (complementary-determining regions) located on the N terminal part of the sequence, the remaining part being relatively constant and forming the framework

HOMOLOGY

FAMILY Immunoglobulin superfamily

CATEGORY immunity/defense

basic FUNCTION forming the antigen binding site together with the cognate region of the light chain

implicated in a

process

cellular process

physiological immunity/defense

text humoral immunity, antibody synthesis

pathway

metabolism

signaling

text Component of the immunoglobulin molecules which are tetramers of two identical heavy chains and two identical light chains, either kappa or lambda, bound by disulfide bonds

a component

structural

INTERACTION

DNA

RNA

small molecule

protein

- C-terminal end covalently bound to the DJ segment by the V(D)J recombination system (see RAG1, RAG2). During the process, a random loss or gain of nucleotides occurs (junctional diversification)
- Bound by a disulfide bond to a variable light chain

Les bases de données généralistes de séquences nucléotidiques et protéiques

Elles couvrent tous les secteurs de la biologie,
toutes les espèces

1 - Avantages

- Ce sont les bases de données les plus complètes
- Elles sont très largement distribuées
- Elles permettent aux auteurs de prendre date
- Ce sont des outils indispensables à la diffusion rapide des résultats scientifiques

2 - Inconvénients

- Elles contiennent beaucoup de redondance
- La qualité des données est sous la responsabilité des auteurs
- Encore beaucoup d'erreurs malgré les contrôles
- Evolution lente

Les bases de données généralistes de séquences nucléotidiques

GenBank

NCBI, USA

<http://www.ncbi.nlm.nih.gov/Genbank/index.html>

EMBL

EBI, UK

<http://www.ebi.ac.uk/embl/>

DDBJ

NIG, Japon

<http://www.ddbj.nig.ac.jp>

EMBL/GenBank/DDJB

International Nucleotide Sequence Database Collaboration

<http://www.insdc.org/>

- Ces 3 BD contiennent les **mêmes informations** à quelques jours prêts (différences dans la format et la syntaxe)
- Elles contiennent toutes les séquences nucléotidiques de:
 - projets de séquençage de génomes
 - Projets individuel de recherche
 - Patent offices
- Les données non confidentielles sont échangées tous les jours

EMBL/GenBank/DDJB

- Grande hétérogénéité dans la longueur des séquences
- Tailles: il n'y a plus de maximum (>300.000pb)
Les plus petites de l'ordre de 10 nt
- **Toutes les séquences sont conservées**
(beaucoup de redondance)
- Beaucoup d'erreurs dans les séquences, les annotations, la détermination des CDS
- Hétérogénéité de la qualité des annotations qui sont principalement fournies par les auteurs

GenBank

Banque de séquences d'ADN et d'ARN

Créée en 1978

Localisation

National Center for Biotechnology Information,
NLM, NIH, Bethesda, MD, USA

Août 2006

(version 155)

> 61.10^6 entrées (+ de 65.10^9 de nucléotides)
Plus de 205.000 espèces sont représentées
(+ de 3000 nouvelles espèces par mois)

Origine des séquences

Analyse de la littérature mondiale
Soumission par les auteurs
Collaboration avec EMBL et DDBJ

Outils de soumission des séquences

Sequin, Bankit, tbl2asn

Consultation, distribution (fichiers à plat)

Web (<http://www.ncbi.nlm.nih.gov>), Entrez, FTP

NCBI GenBank Overview

PubMed Entrez BLAST OMIM Books Taxonomy Structure

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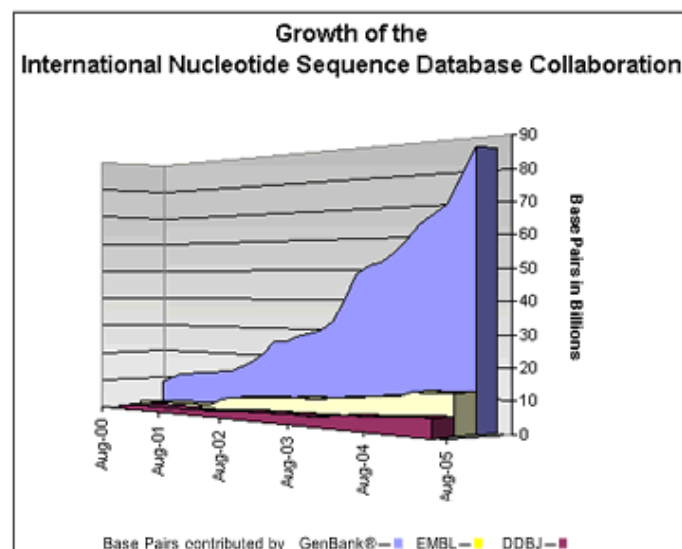
Updates

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[Entrez Nucleotide](#)[BLAST](#)

International sequence databases exceed 100 gigabases

In August 2005, the INSDC announced the DNA sequence database exceeded 100 gigabases. GenBank is proud of its contributions toward this milestone. We thank all the scientists who have worked through the submission process at GenBank and made their sequence data available to the world. See the related [press release](#).



We look forward to working with you all in the future to continue this tradition as the database continues to grow exponentially.

► What is GenBank?

► Submissions to GenBank

Many journals require [submission of sequence information](#) to a database prior to publication so that an accession number may appear in the paper. The WWW-based submission tool, called [BankIt](#), for convenient and quick submission of sequence data. [Sequin](#), NCBI's stand-alone submission software for MAC, PC, and UNIX platforms, is available by FTP. When using Sequin, the output files for direct submission should be sent to GenBank by electronic mail.

There are specialized, streamlined procedures for batch submissions of sequences, such as [EST](#), [STS](#), and [GSS](#) sequences.

► Updating or Revising a Sequence

[Revisions or updates](#) to GenBank entries can be made at any time and can be accepted as [BankIt](#) or [Sequin](#) files or as the text of an e-mail message. Be sure to give the accession number of the sequence to be updated in the subject line. Send it to:

gb-admin@ncbi.nlm.nih.gov

► Access to GenBank

GenBank is available for [searching](#) at NCBI via several methods.

GenBank nucleotide records are available in the divisions CoreNucleotide, dbEST, or dbGSS and can be searched in Entrez together or independently. They must be searched independently in BLAST, however. CoreNucleotide is further split into several BLAST databases, including nr, htgs, wgs and env_nt. See the [BLAST info](#) page for more information about the numerous BLAST databases.

The GenBank database is designed to provide and encourage access within the scientific community to the most up to date and comprehensive DNA sequence information. Therefore, NCBI places no restrictions on the use or distribution of the GenBank data. However, some submitters may claim patent, copyright, or other intellectual property rights in all or a portion of the data they have submitted. NCBI is not in a position to assess the validity of such claims, and therefore cannot provide comment or unrestricted permission concerning the use, copying, or distribution of the information contained in GenBank.

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Range: from to ☐ Reverse complemented strand Features:

1: X62112. Reports H.sapiens VIV-4 g...[gi:37853]

Links

Comment Features Sequence

LOCUS	HSVIV4	650 bp	DNA	linear	PRI 07-MAY-1992
-------	--------	--------	-----	--------	-----------------

DEFINITION H.sapiens VIV-4 gene for immunoglobulin heavy chain.

ACCESSION X62112

VERSION X62112.1 GI:37853

KEYWORDS autoantibody-related; Ig heavy chain; VH-IV family; VIV-4 gene.

SOURCE	Homo sapiens (human)
--------	----------------------

ORGANISM *Homo sapiens*

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Haplorrhini;
Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 650)

AUTHORS Shin, E.K., Matsuda, F., Nagaoka, H., Fukita, Y., Imai, T., Yokoyama, K.,
Soeda, E. and Honjo, T.

TITLE Physical map of the 3' region of the human immunoglobulin heavy chain locus: clustering of autoantibody-related variable segments in one haplotype

JOURNAL EMBO J. 10 (12), 3641-3645 (1991)

PUBMED [1935893](#)

REFERENCE 2 (bases 1 to 650)

AUTHORS Shin, E.K.

TITLE Direct Submission

JOURNAL Submitted (05-SEP-1991) E.K. Shin, Dept of Med Chemistry, Faculty of Medicine, Kyoto University, Yoshida Sakyo-ku, Kyoto 606, JAPAN

COMMENT For related sequences see X62106-X62112 & Lee K.H., J.Mol.Biol. 195:761-768(1987). Sequence shows 92% homology with Lee et al.

FEATURES	Location/Qualifiers
----------	---------------------

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source      1..650
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FEATURES             Location/Qualifiers
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                        /mol_type="genomic DNA"
                        /db_xref="taxon:9606"
                        /chromosome="14 (q32)"
                        /map="155Kb upstream from JH region"
                        /clone="Y103 YAC"
                        /cell_line="CGM1 (Human Epstein-Barr virus-transformed
                        cell line)"
                        /germline
     gene                91..521
                        /gene="VIV-4"
     mRNA              join(91..136,218..521)
                        /gene="VIV-4"
     CDS               join(91..136,218..521)
                        /gene="VIV-4"
                        /codon_start=1
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                        GGSISYYWISWIRQPAGKGLEWIGRIYTSGSTNYNPSLKSRTMSVDTSKNQFSLKLS
                        SVTAADTAVYYCAR"
     sig\_peptide      join(91..136,218..228)
                        /gene="VIV-4"
     misc\_feature     91..136
                        /gene="VIV-4"
                        /function="leader sequence 1"
     intron           137..217
                        /gene="VIV-4"
                        /number=1
     misc\_feature     218..228
                        /gene="VIV-4"
                        /function="leader sequence 2"
     mat\_peptide      229..521
                        /gene="VIV-4"
                        /product="Immunoglobulin heavy chain"
     misc\_feature     522..528
                        /function="recombination signal heptamer"
     misc\_feature     552..560
                        /function="recombination signal nonamer"

```

ORIGIN

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1  cacaggaac caccacacat ttccttaaat tcaggggtcca gctcacatgg gaaatacttt
61  ctgagactca tggacctcct gcacaagaac atgaaacacc tgtggttctt cctcctgctg

```

EMBL Nucleotide Sequence Database

Banque de séquences d'ADN et d'ARN

Créée en 1980

Localisation

European Bioinformatics Institute, Hinxton, UK

Septembre 2006

> $80 \cdot 10^6$ entrées (+ de $146 \cdot 10^9$ de nucléotides)

(version 88)

Origine des séquences

Analyse de la littérature européenne

Soumission par les auteurs

Collaboration avec GenBank et DDBJ

Outils de soumission des séquences

Sequin, Webin (<http://www.ebi.ac.uk/embl/Submission/>)

Consultation, distribution (fichiers à plat)

Web (<http://www.ebi.ac.uk>), SRS, FTP

The EMBL Nucleotide Sequence Database - Mozilla Firefox

Fichier Edition Affichage Aller à Marque-pages Outils ?

The EMBL Nucleotide Sequence Database: ... The EMBL Nucleotide Sequence Data...


Get Nucleotide sequences for Go ? Site search Go ?

EMBL-EBI
European Bioinformatics Institute

Site Map EBI Database Queries

EBI Home About EBI Groups Services Toolbox **Databases** Downloads Submissions

EMBL-NUCLEOTIDE SEQUENCE DATABASE



- Index
- Access
- Documentation
- News
- Submission
- Publications
- People
- Contact

EMBL Nucleotide Sequence Database


The EMBL Nucleotide Sequence Database (also known as EMBL-Bank) constitutes Europe's primary nucleotide sequence resource. Main sources for DNA and RNA sequences are [direct submissions](#) from individual researchers, genome sequencing projects and patent applications.

The database is produced in an international collaboration with GenBank (USA) and the DNA Database of Japan (DDBJ). Each of the three groups collects a portion of the total sequence data reported worldwide, and all new and updated database entries are exchanged between the groups on a daily basis. The [current database release](#) (Release 88, September 2006), with according [Release notes](#) and [user manual](#) are available from the EBI servers. A sample database entry is shown [here](#).

A publication in [Nucl. Acids Res.](#), 2006, Vol. 34: D10-D15 provides further information and details.

The EMBL nucleotide sequence database group is headed by:
Rolf Apweiler.

INSDC




International Nucleotide Sequence Database Collaboration.

EMBL Fetch

Fetch an EMBL record by **id**

Go

TPA



THIRD PARTY ANNOTATION

Link	Explanation
Access	Database queries , Completed genomes webserver , FTP archives (EMBL release, alignments etc), EMBL sequence version archive (SVA), Browse by geography .
Submission	Primary sequence submissions, third party annotation, updates and alignment submissions.
Documentation	Release notes user manual , Information for Submitters , FAQ , Release information , Forthcoming Changes , EMBL database statistics , Feature table , XML documentation , Sample entry , Accession Number Prefix Codes , Examples of annotation , EMBL Features & Qualifiers , DE line standards , Database Policies
Publications	Group publications
People	Group members
Contact	How to contact the EMBL Nucleotide Sequence Database
News	List of recent changes on this site

Users can now submit re-annotations/ re-assemblies of sequences already present in EMBL and owned by other groups.

NCBI



The Nucleotide Sequence Database is produced in collaboration with [GenBank \(USA\)](#).

[Contact](#)

DDBJ

Structure des informations distribuées par EMBL

```
Mozilla Firefox
Fichier  Edition  Affichage  Aller à  Marque-pages  Outils  ?

ID  X62112; SV 1; linear; genomic DNA; STD; HUM; 650 BP.
XX
AC  X62112;
XX
DT  28-OCT-1991 (Rel. 29, Created)
DT  07-MAY-1992 (Rel. 31, Last updated, Version 6)
XX
DE  H.sapiens VIV-4 gene for immunoglobulin heavy chain
XX
KW  autoantibody-related; Ig heavy chain; VH-IV family; VIV-4 gene.
XX
OS  Homo sapiens (human)
OC  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia;
OC  Eutheria; Euarchontoglires; Primates; Haplorrhini; Catarrhini; Hominidae;
OC  Homo.
XX
RN  [1]
RP  1-650
RA  Shin E.K.;
RT  ;
RL  Submitted (05-SEP-1991) to the EMBL/GenBank/DDBJ databases.
RL  E.K. Shin, Dept of Med Chemistry, Faculty of Medicine, Kyoto University,
RL  Yoshida Sakyo-ku, Kyoto 606, JAPAN
XX
RN  [2]
RP  1-650
RX  PUBMED; 1935893.
RA  Shin E.K., Matsuda F., Nagaoka H., Fukita Y., Imai T., Yokoyama K.,
RA  Soeda E., Honjo T.;
RT  "Physical map of the 3' region of the human immunoglobulin heavy-chain
RT  locus: Clustering of autoantibody-related variable segments in one
RT  haplotype";
RL  EMBO J. 10(12):3641-3645(1991).
XX
```

Les classes EMBL

La classe de données pour chaque entrée reflète l'approche méthodologique utilisée pour la génération de la séquence

- CON** Entry constructed from segment entry sequences, drawing annotation from segment entries
- ANN** Entry constructed from segment entry sequences with its own annotation
- PAT** Patent EST Expressed Sequence Tag
- GSS** Genome Survey Sequence, short single pass genomic sequences
- HTC** High Throughput CDNA sequencing
- HTG** High Throughput Genome sequencing
- MGA** Mass Genome Annotation
- WGS** Whole Genome Shotgun
- TPA** Third Party Annotation
- STS** Sequence Tagged Site
- STD** Standard (all entries not classified as above)

Les divisions EMBL et GenBank

Création de divisions taxonomiques

EMBL

Bacteriophage

Environmental Sample

Fungal

Human

Invertebrate

Other Mammal

Other Vertebrate

Mus musculus

Plant

Prokaryote

Other Rodent

Synthetic

Unclassified

Viral

PHG

ENV

FUN

HUM

INV

MAM

VRT

MUS

PLN

PRO

ROD

SYN

UNC

VRL

GenBank

PRI - primate sequences

ROD - rodent sequences

MAM - other mammalian sequences

VRT - other vertebrate sequences

INV - invertebrate sequences

PLN - plant, fungal, and algal sequences

BCT - bacterial sequences

VRL - viral sequences

PHG - bacteriophage sequences

SYN - synthetic sequences

UNA - unannotated sequences

EST - EST sequences (expressed sequence tags)

PAT - patent sequences

STS - STS sequences (sequence tagged sites)

GSS - GSS sequences (genome survey sequences)

HTG - HTGS sequences (high throughput genomic sequences)

HTC - HTC sequences (high throughput cDNA sequences)

ENV - Environmental sampling sequences

nom de l'entrée; version de la séquence; classe de la donnée; molécule; division; longueur.

Numéro d'accès

Mozilla Firefox

Fichier Edition Affichage Aller à Marque-pages Outils ?

ID X62112; SV 1; linear; genomic DNA; STD; HUM; 650 BP.
XX
AC X62112;
XX
DT 28-OCT-1991 (Rel. 29, Created)
DT 07-MAY-1992 (Rel. 31, Last updated, Version 6)
XX
DE H.sapiens VIV-4 gene for immunoglobulin heavy chain
XX
KW autoantibody-related; Ig heavy chain; VH-IV family; VIV-4 gene.
XX
OS Homo sapiens (human)

Date d'entrée dans EMBL

Dernière date de modification

Definition

Mots clé

Mozilla Firefox

Fichier Edition Affichage Aller à Marque-pages Outils ?

OS Homo sapiens (human)
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia;
OC Eutheria; Euarchontoglires; Primates; Haplorrhini; Catarrhini; Hominidae;
OC Homo.
XX

RN [1]
RP 1-650
RA Shin E.K.;
RT ;
RL Submitted (05-SEP-1991) to the EMBL/GenBank/DDBJ databases.
RL E.K. Shin, Dept of Med Chemistry, Faculty of Medicine, Kyoto University,
RL Yoshida Sakyo-ku, Kyoto 606, JAPAN
XX

RN [2]
RP 1-650
RX PUBMED; 1935893.
RA Shin E.K., Matsuda F., Nagaoka H., Fukita Y., Imai T., Yokoyama K.,
RA Soeda E., Honjo T.;
RT "Physical map of the 3' region of the human immunoglobulin heavy-chain
RT locus: Clustering of autoantibody-related variable segments in one
RT haplotype";
RL EMB0 J. 10(12):3641-3645(1991).
XX

DR EMBL-ALIGN; ALIGN_000299.
DR EMBL-ALIGN; ALIGN_000425.
DR GDB; 118731.
DR GDB; 9931731.
DR IMGT/LIGM; X62112; X62112.
XX

CC For related sequences see X62106-X62112 & Lee K.H., J.Mol.Biol.
CC 195:761-768(1987). Sequence shows 92% homology with Lee et al.
XX

Espèce et classification

Références bibliographiques

Cross-références

Les lignes et codes de EMBL

- CC** Commentaires.
- FH** En-tête du champ FT (feature)
- FT** Motifs/caractéristiques de la séquence. **"The feature table"**.
- SQ** Longueur de la séquence en paire de bases, composition
Séquence avec 60 nucléotides par ligne dans le sens 5'--->3'.

Les lignes FT: les annotations

Features

Caractérisation des motifs de la séquence
présentation dans un ordre hiérarchique
comprend le nom et la délimitation du motif
dans la séquence

Qualifiers

ajoutent des informations concernant la feature
comprend un nom et un texte associé
(texte libre ou vocabulaire contrôlé)

```
FT CDS          1..391
FT              /codon_start=2
FT              /db_xref="PID:e1358278"
FT              /partial
FT              /gene="IgH"
FT              /product="immunoglobulin heavy chain"
FT              /translation="MSWVFLVAILEGVQCEVQLVESGGGLVQPGGSLRLSCAASGFTFS"
```

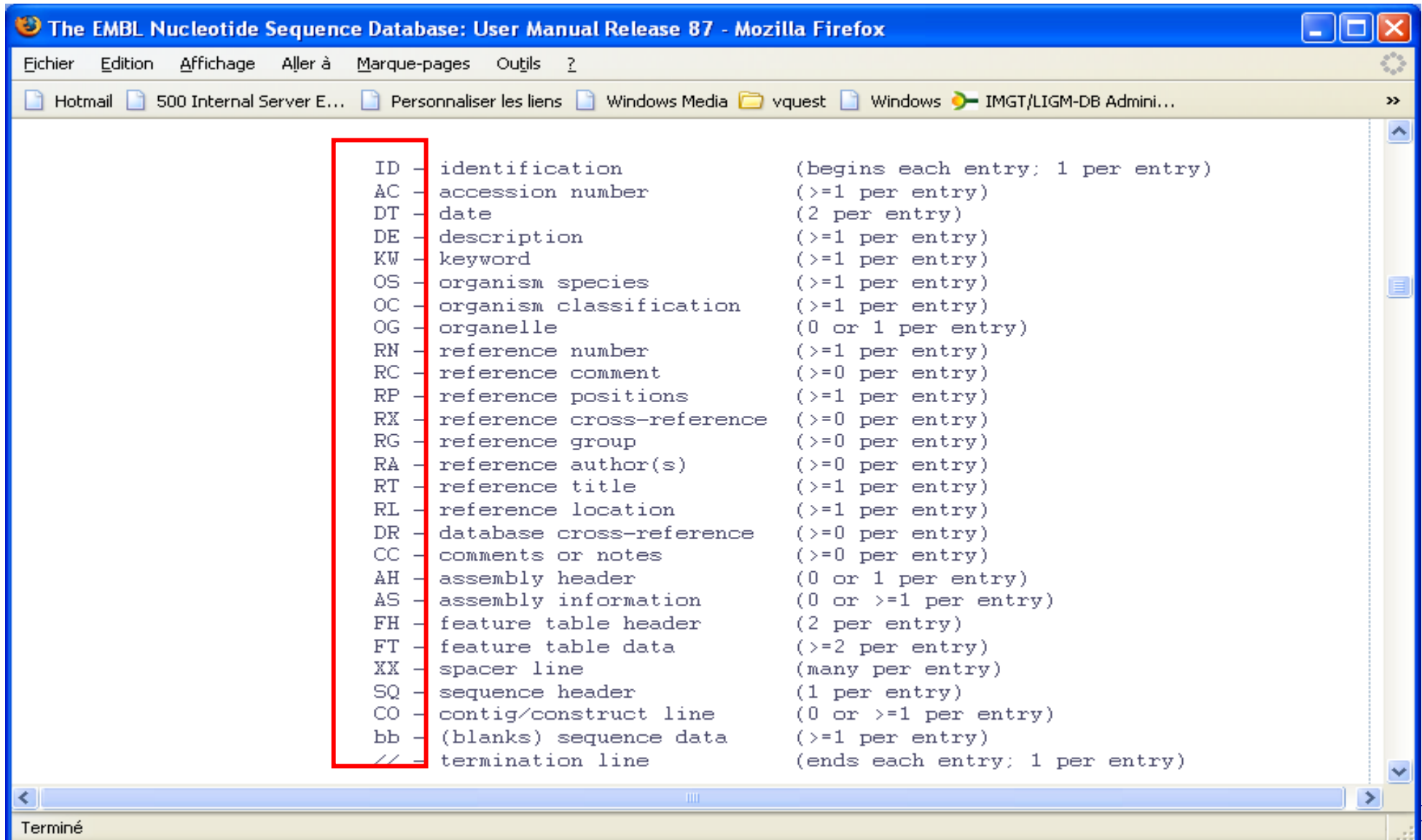
```

fn
FT    source      1..650
FT          /organism="Homo sapiens"
FT          /chromosome="14 (q32)"
FT          /map="155Kb upstream form JH region"
FT          /mol_type="genomic DNA"
FT          /clone="Y103 YAC"
FT          /cell_line="CGM1 (Human Epstein-Barr virus-transformed cell
FT          line)"
FT          /germline
FT          /db_xref="taxon:9606"
FT    mRNA        join(91..136,218..521)
FT          /partial
FT          /gene="VIV-4"
FT    misc_feature 91..136
FT          /function="leader sequence 1"
FT    CDS          join(91..136,218..521)
FT          /partial
FT          /gene="VIV-4"
FT          /product="Immunoglobulin heavy chain"
FT          /protein_id="CAA44022.1"
FT          /translation="MKHLWFFLLLVAAAPRWVLSQVQLQESGPGLVKPSSETLSLTCTVSG
FT          GSISSYYWSWIRQPAGKGLEWIGRIYTSGSTNYPNPSLKSRVTMSVDTSKNQFSLKLSSV
FT          TAADTAVYYCAR"
FT    sig_peptide  join(91..136,218..228)
FT    intron       137..217
FT          /number=1
FT    misc_feature 218..228
FT          /function="leader sequence 2"
FT    mat_peptide  229..521
FT          /partial
FT          /gene="VIV-4"
FT          /product="Immunoglobulin heavy chain"
FT    misc_feature 522..528
FT          /function="recombination signal heptamer"
FT    misc_feature 552..560
FT          /function="recombination signal nonamer"
...

```

Structure de l'information dans les bases de données généralistes DDBJ/EMBL/GenBank

Des codes pour indiquer les types d'information



The screenshot shows the EMBL Nucleotide Sequence Database User Manual Release 87 in Mozilla Firefox. The browser window has a blue title bar and a menu bar with options like 'Fichier', 'Edition', 'Affichage', 'Aller à', 'Marque-pages', 'Outils', and '?'. The address bar shows several bookmarks including 'Hotmail', '500 Internal Server E...', 'Personnaliser les liens', 'Windows Media', 'vquest', 'Windows', and 'IMGIT/LIGM-DB Admini...'. The main content area displays a list of feature table keys and their descriptions, with a red box highlighting the first 20 entries.

ID	identification	(begins each entry; 1 per entry)
AC	accession number	(>=1 per entry)
DT	date	(2 per entry)
DE	description	(>=1 per entry)
KW	keyword	(>=1 per entry)
OS	organism species	(>=1 per entry)
OC	organism classification	(>=1 per entry)
OG	organelle	(0 or 1 per entry)
RN	reference number	(>=1 per entry)
RC	reference comment	(>=0 per entry)
RP	reference positions	(>=1 per entry)
RX	reference cross-reference	(>=0 per entry)
RG	reference group	(>=0 per entry)
RA	reference author(s)	(>=0 per entry)
RT	reference title	(>=1 per entry)
RL	reference location	(>=1 per entry)
DR	database cross-reference	(>=0 per entry)
CC	comments or notes	(>=0 per entry)
AH	assembly header	(0 or 1 per entry)
AS	assembly information	(0 or >=1 per entry)
FH	feature table header	(2 per entry)
FT	feature table data	(>=2 per entry)
XX	spacer line	(many per entry)
SQ	sequence header	(1 per entry)
CO	contig/construct line	(0 or >=1 per entry)
bb	(blanks) sequence data	(>=1 per entry)
//	termination line	(ends each entry; 1 per entry)

Terminé

EMBL Feature labels

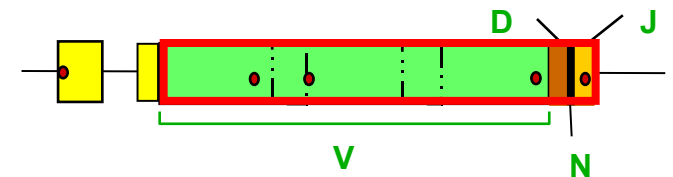
The screenshot shows the EMBL-EBI website in a Mozilla Firefox browser window. The page title is "EMBL Features & Qualifiers - Mozilla Firefox". The browser's address bar shows "http://www3.ebi.ac.uk/Services/WebFeat/". The page header includes the EMBL-EBI logo and navigation links: "EBI Home", "About EBI", "Groups", "Services", "Toolbox", "Databases", "Downloads", and "Submissions". A search bar is located in the top right corner.

The main content area displays the "CDS" feature definition. On the left, a vertical list of feature labels is visible, including "attenuator", "C_region", "CAAT_signal", "CDS", "conflict", "D-loop", "D_segment", "enhancer", "exon", "gap", "GC_signal", "gene", "idna", "intron", "J_segment", "LTR", "mat_peptide", "misc_binding", "misc_difference", "misc_feature", "misc_recomb", "misc_RNA", "misc_signal", "misc_structure", "modified_base", "mRNA", "H_region", "old_sequence", "operon", "ori", "polyA_signal", "polyA_site", "precursor_RNA", "prim_transcript", "primer_bind", "promoter", "protein_bind", "RBS", "repeat_region", "repeat_unit", "rep_origin", "rRNA", "S_region", "satellite", "scRNA", "sig_peptide", and "snRNA".

Feature	Definition
CDS	coding sequence; sequence of nucleotides that corresponds with the sequence of amino acids in a protein (location includes stop codon); feature includes amino acid conceptual translation.
Optional Qualifiers	<pre> /allele="text" /citation=[number] /codon=(seq:"codon-sequence",aa:<amino_acid>) /codon_start=<1 or 2 or 3> /db_xref="<database>:<identifier>" /EC_number="text" /exception="text" /experiment="text" /function="text" /gene="text" /inference="TYPE[(same species)][EVIDENCE_BASIS]" /label=feature_label /locus_tag="text" (single token) /map="text" /note="text" /number=unquoted text (single token) /old_locus_tag="text" (single token) /operon="text" /product="text" /protein_id="<identifier>" /pseudo /ribosomal_slippage /standard_name="text" /translation="text" /transl_except=(pos:<base_range>,aa:<amino_acid>) /transl_table=<integer> /trans_splicing </pre>
Comments	<p>/codon_start has valid value of 1 or 2 or 3, indicating the offset at which the first complete codon of a coding feature can be found, relative to the first base of that feature;</p> <p>/transl_table defines the genetic code table used if other than the universal genetic code table;</p> <p>genetic code exceptions outside the range of the specified tables are reported in /codon or /transl_except qualifiers</p> <p>/protein_id consists of a stable ID portion (3+5 format with 3 position letters and 5 numbers) plus a version</p>

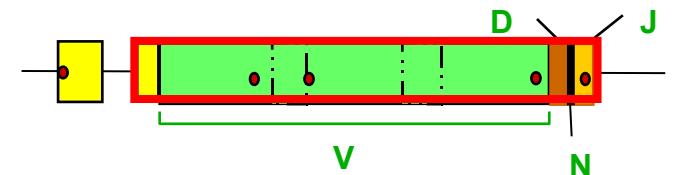
Terminé

EMBL Feature labels



The DDBJ/EMBL/GenBank Feature Table: Definition - Mozilla Firefox	
Fichier Edition Affichage Aller à Marque-pages Outils ?	
Hotmail 500 Internal Server E... Personnaliser les liens Windows Media vquest Windows IMGT/LIGM-DB Admini...	
Feature Key	V_region
Definition	variable region of immunoglobulin light and heavy chains, and T-cell receptor alpha, beta, and gamma chains; codes for the variable amino terminal portion; can be composed of V_segments, D_segments, N_regions, and J_segments;
Optional qualifiers	/allele="text" /citation=[number] /db_xref="<database>:<identifier>" /experiment="text" /gene="text" /inference="TYPE[(same species)][:EVIDENCE_BASIS] " /label=feature_label /locus_tag="text" (single token) /map="text" /note="text" /old_locus_tag="text" (single token) /product="text" /pseudo /standard_name="text"
Parent Key	CDS
Organism scope	eukaryotes
Terminé	

EMBL Feature labels



The DDBJ/EMBL/GenBank Feature Table: Definition - Mozilla Firefox	
Fichier Edition Affichage Aller à Marque-pages Outils ?	
Hotmail 500 Internal Server E... Personnaliser les liens Windows Media vquest Windows IMGT/LIGM-DB Admini...	
Feature Key	V_segment
Definition	variable segment of immunoglobulin light and heavy chains, and T-cell receptor alpha, beta, and gamma chains; codes for most of the variable region (V_region) and the last few amino acids of the leader peptide;
Optional qualifiers	<code>/allele="text"</code> <code>/citation=[number]</code> <code>/db_xref="<database>:<identifier>"</code> <code>/experiment="text"</code> <code>/gene="text"</code> <code>/inference="TYPE[(same species)][:EVIDENCE_BASIS]"</code> <code>/label=feature_label</code> <code>/locus_tag="text" (single token)</code> <code>/map="text"</code> <code>/note="text"</code> <code>/old_locus_tag="text" (single token)</code> <code>/product="text"</code> <code>/pseudo</code> <code>/standard_name="text"</code>
Parent Key	CDS
Organism scope	eukaryotes

Les bases de données généralistes pour les protéines

SWISS-PROT

Université de Genève, Suisse

EBI, UK

<http://us.expasy.org/sprot/>

<http://www.ebi.ac.uk>

PIR

NBRF, USA

<http://pir.georgetown.edu/>

UNIPROT

<http://www.expasy.uniprot.org/>

Welcome to UniProt - UniProt [the Universal Protein Resource] - Mozilla Firefox

Fichier Edition Affichage Aller à Marque-pages Outils ?

http://www.expasy.uniprot.org/



Text Search UniProt Knowledgebase

Home About UniProt Getting Started Searches/Tools Databases Support/Documentation

Welcome to UniProt

UniProt (Universal Protein Resource) is the world's most comprehensive catalog of information on proteins. It is a central repository of protein sequence and function created by joining the information contained in Swiss-Prot, TrEMBL, and PIR.

UniProt is comprised of three components, each optimized for different uses. The **UniProt Knowledgebase (UniProtKB)** is the central access point for extensive curated protein information, including function, classification, and cross-reference. The **UniProt Reference Clusters (UniRef)** databases combine closely related sequences into a single record to speed searches. The **UniProt Archive (UniParc)** is a comprehensive repository, reflecting the history of all protein sequences.

The sequences and information in UniProt are accessible via [text search](#), [BLAST similarity search](#), and [FTP](#).





Rechercher : muta

☐ Respecter la casse

bre 2006

SWISS-PROT

Banque de séquences protéiques

Créée en 1986

par Amos Bairoth, Suisse

Privilégie la qualité des données, n'accepte pas toutes les séquences

Un complément: TREMBL

Localisation

Université de Genève, Suisse; EBI, UK

October 2006

>234.000 séquences

Origine des séquences

Analyse de la littérature, soumission par les auteurs,
traduction de séquences nucléotidiques

Distribution (fichiers à plat)

Web (<http://www.expasy.org/sprot>, <http://www.ebi.ac.uk>), FTP


Outils de soumission des séquences

SPIN <http://www.ebi.ac.uk/swissprot/Submissions/spin/index.jsp>

ExPASy - UniProt Knowledgebase: Swiss-Prot and TrEMBL - Mozilla Firefox

Fichier Edition Affichage Aller à Marque-pages Outils ?

http://www.expasy.org/sprot/




Swiss-Prot

Protein knowledgebase

TrEMBL

Computer-annotated supplement to Swiss-Prot



The [UniProt Knowledgebase](#) consists of:

- **UniProtKB/Swiss-Prot**; a curated protein sequence database which strives to provide a high level of annotation (such as the description of the function of a protein, its domains structure, post-translational modifications, variants, etc.), a minimal level of redundancy and high level of integration with other databases [[More details](#) / [References](#) / [Linking to Swiss-Prot](#) / [User manual](#) / [Recent changes](#) / [Disclaimer](#)].
- **UniProtKB/TrEMBL**; a computer-annotated supplement of Swiss-Prot that contains all the translations of EMBL nucleotide sequence entries not yet integrated in Swiss-Prot.

These databases are developed by the Swiss-Prot groups [at SIB](#) and [at EBI](#).

UniProt Knowledgebase Release 8.8 consists of:
UniProtKB/Swiss-Prot Release 50.8 of 03-Oct-2006: 234112 entries
[\(More statistics\)](#)
UniProtKB/TrEMBL Release 33.8 of 03-Oct-2006: 3244331 entries [\(More statistics\)](#)

> Swiss-Prot headlines
 Rice harvest 2006: over 1000 rice proteins annotated
 (Read [more...](#))

Access to the UniProt Knowledgebase

- **SRS** - Access to UniProtKB/Swiss-Prot, UniProtKB/TrEMBL and other databases using the Sequence Retrieval System
- [Full text search](#) in the UniProt Knowledgebase
- [Advanced search in the UniProt Knowledgebase](#) by description, gene name and organism (can be used to create html links to UniProt Knowledgebase queries)
- [Taxonomy browser \(NEW!\)](#)
- **BLAST** similarity search

- [by description or identification](#) (any word in the DE, OS, OG, GN and ID lines)
- [by citation](#) (RL line; UniProtKB/Swiss-Prot only)
- [Retrieve a list of UniProtKB entries](#)
- [Randomly retrieve a UniProtKB entry](#)

bre 2006

UniProtKB/Swiss-Prot entry P23083 [HV1G_HUMAN] Ig heavy chain V-I region V35 - Mozilla Firefox


Fichier Edition Affichage Aller à Marque-pages Outils ?

http://www.expasy.org/uniprot/P23083

ExPASy Home page Site Map Search ExPASy Contact us Swiss-Prot

Search for

UniProtKB/Swiss-Prot entry **P23083**



[Printer-friendly view](#)
[Submit update](#)
[Quick BlastP search](#)
[Entry history](#)

[\[Entry info\]](#) [\[Name and origin\]](#) [\[References\]](#) [\[Comments\]](#) [\[Cross-references\]](#) [\[Keywords\]](#) [\[Features\]](#) [\[Sequence\]](#) [\[Tools\]](#)

Note: most headings are clickable, even if they don't appear as links. They link to the [user manual](#) or other documents.

Entry information

Entry name	HV1G_HUMAN
Primary accession number	P23083
Secondary accession numbers	None
Integrated into Swiss-Prot on	November 1, 1991
Sequence was last modified on	November 1, 1991 (Sequence version 1)
Annotations were last modified on	September 5, 2006 (Entry version 39)

Name and origin of the protein

Protein name	Ig heavy chain V-I region V35 [Precursor]
Synonyms	None
Gene name	None
From	Homo sapiens (Human) [TaxID: 9606]
Taxonomy	Eukaryota ; Metazoa ; Chordata ; Craniata ; Vertebrata ; Euteleostomi ; Mammalia ; Eutheria ; Euarchontoglires ; Primates ; Haplorrhini ; Catarrhini ; Hominidae ; Homo .

References

[1] NUCLEOTIDE SEQUENCE [GENOMIC DNA].
 PubMed=2841108 [[NCBI](#), [ExPASy](#), [EBI](#), [Israel](#), [Japan](#)]
[Matsuda F.](#), [Lee K.H.](#), [Nakai S.](#), [Sato T.](#), [Kodaira M.](#), [Zong S.Q.](#), [Ohno H.](#), [Fukuhara S.](#), [Honjo T.](#);
 "Dispersed localization of D segments in the human immunoglobulin heavy-chain locus.";
 EMBO J. 7:1047-1051(1988).

[2] NUCLEOTIDE SEQUENCE [GENOMIC DNA] OF 20-116

UniProtKB/Swiss-Prot entry P23083 [HV1G_HUMAN] Ig heavy chain V-I region V35 - Mozilla Firefox

Fichier Edition Affichage Aller à Marque-pages Outils ?

http://www.expasy.org/uniprot/P23083

Eur. J. Immunol. 23:846-851(1993).

Comments

- SIMILARITY:** Contains 1 Ig-like (immunoglobulin-like) domain.

Copyright

Copyrighted by the UniProt Consortium, see <http://www.uniprot.org/terms>. Distributed under the Creative Commons Attribution-NoDerivs License.

Cross-references

Sequence databases

EMBL	X07448; -, NOT_ANNOTATED_CDS; Genomic_DNA.[EMBL / GenBank / DDBJ]
PIR	S00476; HVHU35.

3D structure databases

HSSP	P01751 ; 1NQB. [HSSP ENTRY / PDB]
SMR	P23083 ; 20-117.
ModBase	P23083 .

Protein-protein interaction databases

DIP	P23083 .
-----	--------------------------

Protein family/group databases

IMGT	X07448 .
------	--------------------------

2D gel databases

SWISS-2DPAGE [Get region on 2D PAGE](#).

Organism-specific gene databases

HOVERGEN	[Family / Alignment / Tree]
----------	---

Gene expression databases

ArrayExpress	P23083 ; -.
--------------	-----------------------------

Ontologies

GO	GO:0005576 ; Cellular component: extracellular region (<i>non-traceable author statement</i>). GO:0003823 ; Molecular function: antigen binding (<i>non-traceable author statement</i>). GO:0006955 ; Biological process: immune response (<i>non-traceable author statement</i>). QuickGo view .
----	--

Family and domain databases

InterPro	IPR007110 ; Ig-like. IPR013106 ; Ig_V-set. IPR003596 ; Ig_V-set_sub. Graphical view of domain structure .
----------	--

UniProtKB/Swiss-Prot entry P23083 [HV1G_HUMAN] Ig heavy chain V-I region V35 - Mozilla Firefox

Fichier Edition Affichage Aller à Marque-pages Outils ?

http://www.expasy.org/uniprot/P23083 OK

Pfam Pfam graphical view of domain structure.

SMART SMO0406; IGv; 1.
SMART graphical view of domain structure.

PROSITE PS50835; IG_LIKE; 1.
PROSITE graphical view of domain structure (profiles).

BLOCKS P23083.

Genome annotation databases

Ensembl ENSG00000130076; Homo sapiens. [Contig view]

Other

LinkHub P23083; -.

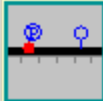

ProtoNet P23083.

UniRef View cluster of proteins with at least 50% / 90% / 100% identity.

Keywords

Immunoglobulin domain; Immunoglobulin V region; Signal.

Features

 Feature table viewer  Feature aligner

Key	From	To	Length	Description	FTId
SIGNAL	1	19	19		
CHAIN	20	117	98	Ig heavy chain V-I region V35. PRO_00000015245	
DOMAIN	20	>117	>98	Ig-like.	
NON_TER	117	117			

Sequence information

Length: **117 AA** [This is the length of the partial sequence of the unprocessed precursor]

Molecular weight: **13009 Da** [This is the MW of the partial sequence of the unprocessed precursor]

CRC64: **BE61CE63F8CE97BD** [This is a checksum on the sequence]

MDWTWRILFL	VAAATGAHSQ	VQLVQSGAEV	KKPGASVKVS	CKASGYTFTG	YYMHWRQAP
GQGLEWMGRI	NPNSGGTNYA	QKFQGRVTST	RDTISISTAYM	ELSLRSDDT	VVYYCAR

P23083 in FASTA format

PDB PROTEIN DATA BANK

Banque de structures tridimensionnelles

Localisation

Créée par Brookhaven National Laboratory,
NIH, Bethesda, MD, USA

Maintenue depuis juillet 1999 par le RCSB
(Research Collaboratory for Structural Bioinformatics)

Contient les coordonnées 3D de 39.223 structures

(protéines ou acides nucléiques) (Octobre 2006)

Outils de visualisation 3D

Rasmol, Cn3D, Web Labviewer, WPDB

Distribution (fichiers à plat) Web (<http://www.rcsb.org/pdb/Welcome.do>), FTP

Systemes d'information et bases de données spécialisés

Ils couvrent un secteur défini de la biologie

Avantages

- Ils fournissent des informations détaillées, spécifiques du domaine biologique qui n'existent pas dans les systèmes généralistes
- Les données sont en général contrôlées, donc plus fiables et de meilleure qualité que dans les bases généralistes
- Ils évoluent en fonction des progrès scientifiques dans le domaine plus facilement

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Le système d'information IMGT

IMGT, the international ImMunoGeneTics information system® <http://imgt.cines.fr>

Bases de données

Bases de données de séquences

IMGT/LIGM-DB
+ de 100.000 séquences
nucléotidiques IG et TR de
170 espèces de vertébrés
(sur le Web depuis 1995)

- **IMGT/PRIMER-DB**
- **IMGT/MHC-DB**

Base de données de gènes

- **IMGT/GENE-DB**

Base de données de structures 3D

- **IMGT/3Dstructure-DB**

Outils en ligne

Analyse de séquences

- **IMGT/V-QUEST**
- **IMGT/JunctionAnalysis**
- **IMGT/PhyloGene**
- **IMGT/Allele-Align**

Analyse de génomes

- **IMGT/GeneSearch**
- **IMGT/GeneView**
- **IMGT/LocusView**

Analyse de structures 3D

- **IMGT/StructuralQuery**

Ressources Web

Séquences

IMGT Repertoire:

- **Alignments of alleles**
- **Tables of alleles**
- **Protein displays, etc.**

Génomes

- **Chromosomal localizations**
- **Locus representations**
- **Gene tables, etc.**

Structures 2D et 3D

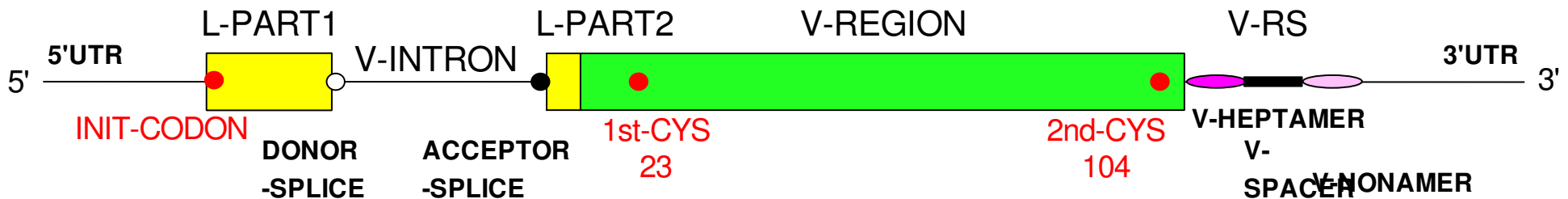
- **2D Colliers de Perles**
- **3D representations, etc.**

Séquences d'ADN génomique en configuration germline

1 - Exemple d'un V-GENE

>X62106.0|HSVI2|*Homo sapiens* VI-2 gene for immunoglobulin heavy chain

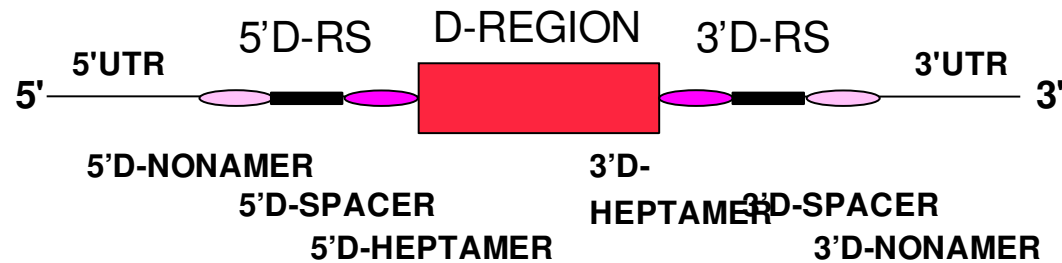
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gatctcatcc	acttctgtgt	tctctcca	ca gga	gcccact	cccagggtgca	180
tctggggctg	aggtgaagaa	gcctggggcc	tcagtgaagg	tctcctgcaa	ggcttctgga	240
tacaccttca	ccggctacta	tatgcactgg	gtgcgacagg	cccctggaca	agggcttgag	300
tggatgggat	ggatcaacc	taacagtgg	ggcacaact	atgcacagaa	gtttcagggc	360
agggtcacca	tgaccaggga	cacgtccatc	agcacagcct	acatgagct	gagagagctg	420
agatctgacg	acacggccgt	gtattactgt	gcgagagaca	cagtc	tgaaa	480
tgagggtg	agaaaccaa	gggaggaggc	ag		accacatcc	



Séquences d'ADN génomique en configuration germline

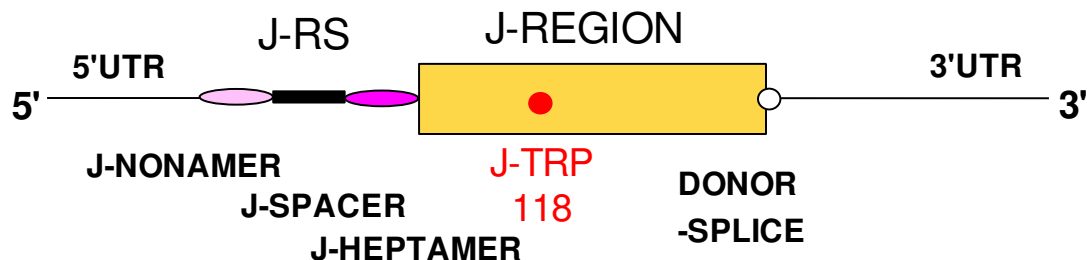
2 - Exemple d'un D-GENE

gggtttttgac tgagctgaga accactgtgc taactgggga cacagtcatt
 ggcagctcta caaaaacc



3 - Exemple d'un J-GENE


gggtttct gtgcccctgg ctcagggtg actcacgtg gctgaatact
 ccagcactg ggccagggc accctgggtca cgtctcctc ag



IMGT/LIGM-DB Consultation module v3 - Mozilla Firefox

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http://imgt.cines.fr/cgi-bin/IMGTlect.jv

Go  pdb

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[IMGT Marie-Paule page](#)
[New search](#)

Created by Marie-Paule Lefranc (CNRS, Montpellier II University, France)
<http://imgt.cines.fr>



IMGT FLAT-FILE

```

ID   HSVIV4 IMGT/LIGM annotation : by annotators; DNA; HUM; 650 BP.
XX
AC   X62112;
XX
DT   21-MAY-1996 (Rel. 4, arrived in LIGM-DB )
DT   06-DEC-2002 (Rel. 200249-5, Last updated, Version 7)
XX
DE   H.sapiens VIV-4 gene for immunoglobulin heavy chain ;
DE   DNA; germline configuration; Ig-Heavy; regular; functionality functional;
DE   group IGHV; subgroup HV4.
XX
KW   antigen receptor; immunoglobulin superfamily; Ig; Ig-Heavy; variable;
KW   autoantibody; IMGT reference sequence; immunoglobulin.
XX
OS   Homo sapiens (human)
OC   Eukaryota; Metazoa; Chordata; Vertebrata; Mammalia; Eutheria; Primates;
OC   Catarrhini; Hominidae; Homo.
XX
RN   [1]
RP   1-650
RA   Shin E.K.;
RT   ;
RL   Submitted (05-SEP-1991) to the EMBL/GenBank/DDBJ databases.
RL   E.K. Shin, Dept of Med Chemistry, Faculty of Medicine, Kyoto University,
RL   Yoshida Sakyo-ku, Kyoto 606, JAPAN
XX
RN   [2]
RP   1-650
RX   MEDLINE; 92037524.
DA   Shin E K   Matsuda E   Nagasaka H   Fukita Y   Imai T   Yokoyama Y

```


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http://imgt.cines.fr/cgi-bin/IMGTlect.jv

personnaliser les liens Windows Windows Media Hotmail

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FT	CDR3-IMGT	514..521
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FT	V-RS	522..560
FT	V-HEPTAMER	522..528
FT	V-SPACER	529..551
FT	V-NONAMER	552..560
XX		

Mozilla Firefox

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← → ↺ × 🏠 📄 http://srs.ebi.ac.uk/srsbin/cgi-bin/wgetz OK G ebi

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XX
FH   Key                Location/Qualifiers
FH
FT   source              1..650
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FT                        /chromosome="14 (q32)"
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FT   misc_feature        552..560
FT                        /function="recombination signal nonamer"
XX

```

Sequence Database Retrieval

1- SRS

(sequence retrieval system)

2- ENTREZ

caractéristiques

- Système d'interrogation multibase
- Accès à des bases de données dont les objectifs peuvent être très différents (BD generalistes, spécialisées, ontologies, references bibliographiques)
- interfaces puissantes pour répondre à des requêtes complexes

Database [Search](#) for in [Nucleotide sequences](#) [Search](#) EBI Website



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IGH : Institut de Génétique Humaine. EBI Services

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Submissions

- AEdb
- ArrayExpress via MIAMExpress
- EMBL via VWEBIN
- EMDep
- IMGT/HLA
- PDB-AutoDep
- UniProt via SPIN
- Webin-Align

Downloads

- EBI FTP Server
- Help Files
- Database Repository
- Software Repository

WHAT'S 2can?

This logo is a link to a relevant section in the EBI's new bioinformatics educational website, '2can Support Portal'.

Live EBI News Feed **RSS**

Toolbox

Similarity & Homology

- Blast2 - ASD
- Blast2 - EVEC
- Blast2 - NCBI
- Blast2 - Parasite
- Blast2 - WU
- Fasta
- Fasta - ASD
- Fasta - LGIC
- Fasta - Geno./Proteo.
- MPsrch
- more...

Prot. Function. Analysis

- CluSTr
- InterProScan
- more...

Proteomic Services

- Dasty
- UniProt DAS

Sequence Analysis

- Align
- ClustalW
- GeneWise
- PromoterWise
- more...

Structural Analysis

- DALI
- DaliLite

Databases

Database Browsing & Entry Retrieval via...

- BioMart
- EMBL-SVA
- Fetch Tools
- Integr8
- Query ArrayExpress
- SRS
- SRS3D
- UniProt DAS
- UniProt Search
- WSDbfetch

Literature Databases

- MEDLINE
- OMIM
- Patent Abstracts
- more...

Microarray Databases

- ArrayExpress
- MIAME

Nucleotide Databases

- ASD
- ATD
- EMBL-Bank
- EMBL CDS
- Ensembl
- Genome Reviews
- IMGT/HLA
- Karyn's Genomes
- more...

Protein Databases

- CSA

SRS

<http://srs.ebi.ac.uk/srsbin/cgi-bin/wgetz?-page+srsq2+-noSession>

**Quick Search**

Library Page

Query Form

Tools

Results

Projects

Views

Databanks

HELP

SRS **Temporary Project**

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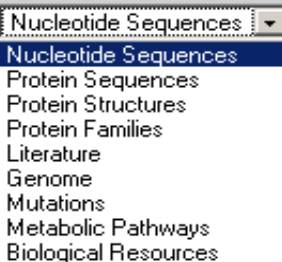
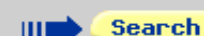
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★ *Want to know more about using SRS?*
- go to the [Help Center](#) where you'll find all the searchable online help you need.

★ *Where is the old library page?*
- Click on the 'Library Page' tab on the menu bar.

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★ [Public SRS servers worldwide](#)

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22.09.06 [UniParc InterPro Matches](#), a databank describing all the matches to [InterPro](#) signatures for each protein in [UniParc](#), is now available. If you have any problems please let us know via the [EBI Support form](#).

17.09.06 [EMBL Release 88](#) is now on-line ([release notes](#), [data notes](#)).
Note: from EMBL release 88 entries are identified only by their accession number. To find the EMBL accession corresponding to a pre-release 88 EMBL identifier please use the [EMBL ID/Accession Mapping](#) databank.



SRS is a product of Lion Bioscience AG

List Search[Search Tips](#)

Paste in a list of sequence ID's. The list must be of the format DATABASE:ID e.g.
EMBL:AB046566

Selection des bases de données

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Quick Search **Library Page** Query Form Tools Results Projects Views Databanks **HELP**

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Extended Query Form

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 - ☐ **Patent Abstracts** ☐ **KarynsGenomes**
 - Literature, Bibliography and Reference Databases - subsections**
 - ☒ **MEDLINE (Updates)** ☐ **MEDLINE (Main Release 2005)** ☐ **MED2PUB**
- ☒ **Gene Dictionaries and Ontologies**
- ☐ **Nucleotide sequence databases**
 - ☒ **EMBL** ☐ **PATENT_DNA** ☐ **IMGT/LIGM-DB** ☐ **IMGTHLA**
 - ☐ **EMBL (Contig)** ☐ **Genome Reviews** ☐ **EMBL (Contigs expanded)** ☐ **RefSeq Genome DB**
 - ☐ **LiveLists**
 - Nucleotide sequence databases - subsections**
 - ☒ **EMBL (Updates)** ☐ **EMBL (Release)** ☐ **EMBL(Whole Genome Shotgun)**
 - ☐ **EMBL (Third Party Annotation)** ☐ **EMBL(Whole Genome Shotgun release)** ☐ **EMBL(Whole Genome Shotgun updates)**
 - ☐ **EMBL (Coding Sequences)** ☐ **EMBL (Contigs expanded release)** ☐ **EMBL (Contigs expanded updates)**
 - ☐ **EMBL(Annotated Cons)** ☐ **RefSeq Genome Release** ☐ **RefSeq Genome Updates**
- ☒ **Nucleotide related databases**
- ☐ **UniProt Universal Protein Resource**
 - ☒ **UniProtKB** ☐ **UniProtKB/Swiss-Prot** ☐ **UniProtKB/TrEMBL** ☐ **UniRef100** ☐ **UniRef90**
 - ☐ **UniRef50** ☐ **UniParc**
- ☒ **Other protein sequence databases**
- ☒ **Protein function, structure and interaction databases**
- ☒ **Enzymes, reactions and metabolic pathway databases**
- ☒ **Mutation and SNP databases**
- ☒ **Biological Resources Catalogues (CABRI)**
- ☒ **Mapping databases**

Pour en savoir plus sur les bases de données disponibles

List of Databanks - Mozilla Firefox

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EMBL-EBI
European Bioinformatics Institute

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Display Options

List databanks:
by groups

Search Descriptions

Databank Information

Databank	Release	No. of Entries	Indexing Date	Group
TAXONOMY		362569	07-Oct-2006	References
GENETICCODE		15	01-Mar-2003	References
OMIM		17873	07-Oct-2006	References
MEDLINE		virtual databank		References
PATABS		1120533	03-Oct-2006	References
KG		274	07-Oct-2006	References
MEDLINENEW		1668448	07-Oct-2006	Literature, Bibliography and Reference Databank
MEDLINE2006		15433668	17-Dec-2005	Literature, Bibliography and Reference Databank
MED2PUB		14116195	06-Jun-2005	Literature, Bibliography and Reference Databank
HSAGENES		15117	07-Aug-2003	GENEDICT
UNILIB		20745	07-Oct-2006	GENEDICT
LOCUSLINK		287853	06-Jun-2005	GENEDICT
UNIGENE		1260993	05-Oct-2006	GENEDICT
HGNC		26739	07-Oct-2006	GENEDICT
ENTREZGENE		2380224	03-Oct-2006	GENEDICT
GOA		10908032	14-Sep-2006	Ontology
GO		20493	14-Feb-2006	Ontology
EMBL		virtual databank		DNASequences

Rechercher : HSA Occurrence suivante Occurrence précédente Surveiller tout Respecter la casse Bas de la page atteint, poursuite au début

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☒ all ☐ TAXONOMY ☐ GENETICCODE ☐ OMIM ☐ MEDLINE
☐ Patent Abstracts ☐ Karyn's Genomes

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☒ all ☐ MEDLINE (Updates) ☐ MEDLINE (Main Release 2006) ☐ MED2PUB

Gene Dictionaries and Ontologies

Nucleotide sequence databases

☒ all ☒ EMBL ☐ Patent DNA ☐ IMGT/LIGM-DB ☐ EMBL (Coding Sequences)
☐ IMGT/HLA ☐ IPD-KIR ☐ EMBL (Contig) ☐ Genome Reviews
☐ EMBL (Contigs expanded) ☐ EMBL (Annotated Cons) ☐ RefSeq Genome ☐ LiveLists
☐ EMBL ID/Accession Mapping ☐ EMBL MGA

Nucleotide sequence databases - subsections

☒ all ☐ EMBL (Updates) ☐ EMBL (Release) ☐ EMBL (Whole Genome Shotgun)
☐ EMBL (Whole Genome Shotgun release) ☐ EMBL (Whole Genome Shotgun updates) ☐ EMBL (Contig release)
☐ EMBL (Contig updates) ☐ EMBL (Contigs expanded release) ☐ EMBL (Contigs expanded updates)
☐ EMBL (Annotated Cons release) ☐ EMBL (Annotated Cons updates) ☐ RefSeq Genome (Release)
☐ RefSeq Genome (Updates) ☐ EMBL (Whole Genome Shotgun Masters)

Nucleotide related databases

UniProt Universal Protein Resource

☒ all ☒ UniProtKB ☐ UniProtKB/Swiss-Prot ☐ UniProtKB/TrEMBL ☐ UniRef100 ☐ UniRef90
☐ UniRef50 ☐ UniParc

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Document1 - Micr...

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EMBL-EBI
European Bioinformatics Institute

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Reset Query "[libs={embl uniprot pir}-ALLTEXT:P23083*]" found 15 entries

Apply Options to:

☐ selected results only
☒ unselected results only

Result Options

Launch analysis tool:
BlastN **Launch**

Show tools relevant to these results: **Tools**

Link to related information: **Link**

Save results: **Save**

Display Options

View results using:

- ☐ [EMBL:BG059361](#)
- ☐ [EMBL:BG150096](#)
- ☐ [EMBL:BF151641](#)
- ☐ [EMBL:CQ079661](#)
- ☐ [EMBL:CQ111798](#)
- ☐ [EMBL:CQ111844](#)
- ☐ [EMBL:CQ150598](#)
- ☐ [EMBL:CQ233920](#)
- ☐ [EMBL:CQ233970](#)
- ☐ [EMBL:CQ234369](#)
- ☐ [EMBL:CQ272014](#)
- ☐ [EMBL:CQ309294](#)
- ☐ [EMBL:X07448](#)
- ☐ [EMBL:AE015924](#)
- ☐ [UniProtKB:HV1G_HUMAN](#)

1 - Recherche rapide: par mots clés

chronic lymphocytic leukemia et/ou CLL

Select Databanks to Search - Mozilla Firefox

Fichier Edition Affichage Aller à Marque-pages Outils ?

http://srs.ebi.ac.uk/srsbin/cgi-bin/wgetz?-page+top

EMBL-EBI
European Bioinformatics Institute

Quick Search Library Page Query Form Tools Results Projects Views Databanks HELP

Reset CLL Quick Search

Search Options

1. Select the **databanks** you want to search
2. Enter your **search terms** in the **Quick Search** box, or choose a **query form** from below

[Standard Query Form](#)

[Extended Query Form](#)

You can **browse** through all the **entries** in any **databanks**. First, **select** the **databanks** you want to browse, then click:

[Browse Entries](#)

Available Databanks

[Expand all](#) [Collapse all](#) Show databanks tooltips: ☒

☐ **Literature, Bibliography and Reference Databases**

☐ [TAXONOMY](#) ☐ [GENETICCODE](#) ☐ [OMIM](#) ☐ [MEDLINE](#)

☐ [Patent Abstracts](#) ☐ [Karyn's Genomes](#)

Literature, Bibliography and Reference Databases - subsections

☐ [MEDLINE \(Updates\)](#) ☐ [MEDLINE \(Main Release 2006\)](#) ☐ [MED2PUB](#)

☒ **Gene Dictionaries and Ontologies**

☐ **Nucleotide sequence databases**

☐ [EMBL](#) ☐ [Patent DNA](#) ☐ [IMGT/LIGM-DB](#) ☐ [EMBL \(Coding Sequences\)](#)

☐ [IMGT/HLA](#) ☐ [IPD-KIR](#) ☐ [EMBL \(Contig\)](#) ☐ [Genome Reviews](#)

☐ [EMBL \(Contigs expanded\)](#) ☐ [EMBL \(Annotated Cons\)](#) ☐ [RefSeq Genome](#) ☐ [LiveLists](#)

☐ [EMBL ID/Accession Mapping](#) ☐ [EMBL MGA](#)

Nucleotide sequence databases - subsections

☐ [EMBL \(Updates\)](#) ☐ [EMBL \(Release\)](#) ☐ [EMBL \(Whole Genome Shotgun\)](#)

☐ [EMBL \(Whole Genome Shotgun release\)](#) ☐ [EMBL \(Whole Genome Shotgun updates\)](#) ☐ [EMBL \(Contig release\)](#)

☐ [EMBL \(Contig updates\)](#) ☐ [EMBL \(Contigs expanded release\)](#) ☐ [EMBL \(Contigs expanded updates\)](#)

☐ [EMBL \(Annotated Cons release\)](#) ☐ [EMBL \(Annotated Cons updates\)](#) ☐ [RefSeq Genome \(Release\)](#)

☐ [RefSeq Genome \(Updates\)](#) ☐ [EMBL \(Whole Genome Shotgun Masters\)](#)

☒ **Nucleotide related databases**

Tips

- ▶ bookmark this [link](#) to return to your project
- ▶ [Linking to SRS?](#)
- Please read our [Linking to SRS](#) guide for important information regarding linking to our SRS server.

re 2006

Query Results - Mozilla Firefox

Fichier Edition Affichage Aller à Marque-pages Outils ?

http://srs.ebi.ac.uk/srsbin/cgi-bin/wgetz OK srs

EMBL-EBI
European Bioinformatics Institute

Quick Search Library Page Query Form Tools Results Projects Views Databanks **HELP**

Reset Query "[embl-ALLTEXT:CLL*]" found 31937 entries **next**

Apply Options to:

☐ selected results only
☒ unselected results only

Result Options

Launch analysis tool:
BlastN **Launch**

Show tools relevant to these results: **Tools**

Link to related information: **Link**

Save results: **Save**

Display Options

View results using:
EMBLSeqSimpleView

Show 30 results per page

Printer friendly view ☐

EMBL	Primary Accession (Links to SVA)	Accession List	Description	Sequence Length
<input type="checkbox"/> EMBL:EE667519	EE667519	EE667519	SAAH-aab96a03.g1 Agen 0058 Schmidtea mediterranea cDNA 5' similar to gb AAL99921.1 AF432214_1 CLL-associated antigen KW-14 [Homo sapiens], mRNA sequence.	730
<input type="checkbox"/> EMBL:EE668092	EE668092	EE668092	SAAH-aac01g01.g1 Agen 0058 Schmidtea mediterranea cDNA 5' similar to gb AAL99921.1 AF432214_1 CLL-associated antigen KW-14 [Homo sapiens], mRNA sequence.	692
<input type="checkbox"/> EMBL:EE669096	EE669096	EE669096	SAAH-aac34b09.g1 Agen 0058 Schmidtea mediterranea cDNA 5' similar to gb AAL99921.1 AF432214_1 CLL-associated antigen KW-14 [Homo sapiens], mRNA sequence.	730
<input type="checkbox"/> EMBL:EE669325	EE669325	EE669325	SAAH-aac36e01.g1 Agen 0058 Schmidtea mediterranea cDNA 5' similar to gb AAL99921.1 AF432214_1 CLL-associated antigen KW-14 [Homo sapiens], mRNA sequence.	713
<input type="checkbox"/> EMBL:EE669631	EE669631	EE669631	SAAH-aac39f08.g1 Agen 0058 Schmidtea mediterranea cDNA 5' similar to gb AAL99921.1 AF432214_1 CLL-associated antigen KW-14 [Homo sapiens], mRNA sequence.	762
<input type="checkbox"/> EMBL:EE669677	EE669677	EE669677	SAAH-aac40b04.g1 Agen 0058 Schmidtea mediterranea cDNA 5' similar to gb AAL99921.1 AF432214_1 CLL-associated antigen KW-14 [Homo sapiens], mRNA sequence.	688

2 - Recherche standard

Select Databanks to Search - Mozilla Firefox

Fichier Edition Affichage Aller à Marque-pages Outils ?

http://srs.ebi.ac.uk/srsbin/cgi-bin/wgetz?-page+top

Reset CLL Quick Search

Search Options

1. Select the **databanks** you want to search
2. Enter your **search terms** in the **Quick Search** box, or choose a **query form** from below:

Standard Query Form

Extended Query Form

You can **browse** through all the **entries** in any **databanks**. First, **select** the **databanks** you want to browse, then click:

Browse Entries

Available Databanks

☒ Expand all ☐ Collapse all Show databanks tooltips: ☒

☐ **Literature, Bibliography and Reference Databases**

☐ TAXONOMY ☐ GENETICCODE ☐ OMIM ☐ MEDLINE

☐ Patent Abstracts ☐ Karyn's Genomes

Literature, Bibliography and Reference Databases - subsections

☐ MEDLINE (Updates) ☐ MEDLINE (Main Release 2006) ☐ MED2PUB

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☐ EMBL ☐ Patent DNA ☒ IMGT/LIGM-DB ☐ EMBL (Coding Sequences)

☐ IMGT/HLA ☐ IPD-KIR ☐ EMBL (Contig) ☐ Genome Reviews

☐ EMBL (Contigs expanded) ☐ EMBL (Annotated Cons) ☐ RefSeq Genome ☐ LiveLists

☐ EMBL ID/Accession Mapping ☐ EMBL MGA

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☐ EMBL (Updates) ☐ EMBL (Release) ☐ EMBL (Whole Genome Shotgun)

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☐ EMBL (Contig updates) ☐ EMBL (Contigs expanded release) ☐ EMBL (Contigs expanded updates)

☐ EMBL (Annotated Cons release) ☐ EMBL (Annotated Cons updates) ☐ RefSeq Genome (Release)

☐ RefSeq Genome (Updates) ☐ EMBL (Whole Genome Shotgun Masters)

☒ **Nucleotide related databases**

☐ **UniProt Universal Protein Resource**

☐ UniProtKB ☐ UniProtKB/Swiss-Prot ☐ UniProtKB/TrEMBL ☐ UniRef100 ☐ UniRef90

☐ UniRef50 ☐ UniParc

☒ **Other protein sequence databases**

☒ **Protein function, structure and interaction databases**

☒ **Enzymes, reactions and metabolic pathway databases**

☒ **Mutation and SNP databases**

BookMarkLets

About BookMarkLets

- Protein Seq
- DNA/RNA Seq

Standard Query Form - Mozilla Firefox

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http://srs.ebi.ac.uk/srsbin/cgi-bin/wgetz OK srs

EMBL-EBI
European Bioinformatics Institute

Quick Search Library Page **Query Form** Tools Results Projects Views Databanks **HELP**

Reset search IMGT/LIGM-DB

Search Options

Combine search terms with:

Use wildcards ☒

Get results of type:

Result Display Options

☒ View results using:

or

☐ Create a view

Show results per page

Tips

To do more advanced queries, use the [Extended Query](#) Form.

Fields you can search

In a single field, you can separate multiple values by &, |, !

<input type="text" value="i"/>	<input type="text" value="AllText"/>	<input type="text" value="CLL"/>
<input type="text" value="i"/>	<input type="text" value="AllText"/>	<input type="text" value="chronic lymphocytic leukemia"/>
<input type="text" value="i"/>	<input type="text" value="AllText"/>	<input type="text" value=""/>
<input type="text" value="i"/>	<input type="text" value="AllText"/>	<input type="text" value=""/>

Create a view

Select the fields you want displayed in your view and choose the format

Choose 1 or more fields:

ID
Division
AccNumber
Molecule
Description
Keywords
Organism

Display As: ☒ Table ☐ List

Sequence Format:

Search

Search

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Quick Search

Library Page

Query Form

Tools

Results

Projects

Views

Databanks

HELP

Reset

search [IMGT/LIGM-DB](#)

Search Options

Combine search terms

with: Use wildcards ☒

Get results of type:

Result Display Options

☒ View results using:

or

☐ Create a viewShow

results per page

Tips

To do more advanced queries, use the [Extended Query Form](#).

Fields you can search

Your search terms

In a single field, you can separate multiple values by &, |, !

Search

	<input type="text" value="AllText"/>	<input type="text" value="CLL chronic lymphocytic leukemia"/>
	<input type="text" value="AllText"/>	<input type="text"/>
	<input type="text" value="AllText"/>	<input type="text"/>
	<input type="text" value="AllText"/>	<input type="text"/>

Create a view

Select the fields you want displayed in your view and choose the format

Choose 1 or more fields:

Display As: ☒ Table ☐ List

Sequence Format:

Search


Standard Query Form - Mozilla Firefox

FichierEditionAffichageAller àMarque-pagesOutils?

←→↺✕🏠

http://srs.ebi.ac.uk/srsbin/cgi-bin/wgetz

🎮OK🔍srs

 **EMBL-EBI**
European Bioinformatics Institute

Quick SearchLibrary PageQuery FormToolsResultsProjectsViewsDatabanks

HELP

Resetsearch IMGT/LIGM-DB

Search Options

Combine search terms with: & (AND)

Use wildcards ☒

Get results of type: Entry

Result Display Options

☒ View results using:

SeqSimpleView

* Names only *
* Complete entries *
SeqSimpleView
FastaSeqs
SeqSimpView
Fasta2Seqs
IMGTLIGM
IMGTLIGM1
IMGTLIGM2
IMGTLIGM3

Tips

To do more advanced queries, use the [Extended Query Form](#).

Fields you can search

Your search terms

In a single field, you can separate multiple values by &, |, !

📘

AllText

CLL | chronic lymphocytic leukemia

📘

Division

HUM

📘

AllText

📘

AllText

Create a view

Select the fields you want displayed in your view and choose the format

Choose 1 or more fields:

Accession
Molecule
Description
Keywords
Organism
Authors
Title
Citation

Display As:

☒ Table☐ List

Sequence Format:

embl

🔍 Search

SRS Release 7.1.3.2

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17 October 2000

Query Results - Mozilla Firefox

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http://srs.ebi.ac.uk/srsbin/cgi-bin/wgetz

EMBL-EBI
European Bioinformatics Institute

Quick Search Library Page Query Form Tools Results Projects Views Databanks **HELP**

Reset Query "([imgtlgm-AllText:CLL*] | [imgtlgm-AllText:chronic lymphocytic leukemia*]) & [imgtlgm-Division:HUM*]" found 950 entries **next**

Apply Options to:

☐ selected results only
☒ unselected results only

Result Options

Launch analysis tool:
BlastN **Launch**

Show tools relevant to these results: **Tools**

Link to related information: **Link**

Save results: **Save**

Display Options

View results using:
SeqSimpleView

Show 30 results per page

IMGT/LIGM-DB	Accession	Description	SeqLength
<input type="checkbox"/> IMGT/LIGM-DB:AF021940	AF021940	Homo sapiens ID:CLL097 IgA heavy chain variable region mRNA, partial cds. ; RNA; rearranged configuration; Ig-Heavy; regular; functionality productive; group IGHV; subgroup HV7.	361
<input type="checkbox"/> IMGT/LIGM-DB:AF021941	AF021941	Homo sapiens ID:CLL158 IgA heavy chain variable region mRNA, partial cds. ; RNA; rearranged configuration; Ig-Heavy; regular; functionality productive; group IGHV; subgroup HV1.	379
<input type="checkbox"/> IMGT/LIGM-DB:AF021942	AF021942	Homo sapiens ID:CLL078 IgG heavy chain variable region mRNA, partial cds. ; RNA; rearranged configuration; Ig-Heavy; regular; functionality productive; group IGHV; subgroup HV3.	376
<input type="checkbox"/> IMGT/LIGM-DB:AF021943	AF021943	Homo sapiens ID:CLL089 IgG heavy chain variable region mRNA, partial cds. ; RNA; rearranged configuration; Ig-Heavy; regular; functionality productive; group IGHV; subgroup HV3.	385
<input type="checkbox"/> IMGT/LIGM-DB:AF021944	AF021944	Homo sapiens ID:CLL109 IgG heavy chain variable region mRNA, partial cds. ; RNA; rearranged configuration; Ig-Heavy; regular; functionality productive; group IGHV; subgroup HV1.	358
<input type="checkbox"/> IMGT/LIGM-DB:AF021945	AF021945	Homo sapiens ID:CLL111 IgG heavy chain variable region mRNA, partial cds. ; RNA; rearranged configuration; Ig-Heavy; regular; group IGHV.	373
<input type="checkbox"/> IMGT/LIGM-DB:AF021946	AF021946	Homo sapiens ID:CLL128 IgG heavy chain variable region mRNA, partial cds. ; RNA; rearranged configuration; Ig-Heavy; regular; functionality productive; group IGHV; subgroup HV4.	361
<input type="checkbox"/> IMGT/LIGM-DB:AF021947	AF021947	Homo sapiens ID:CLL132 IgG heavy chain variable region mRNA, partial cds. ; RNA; rearranged configuration; Ig-Heavy; regular; functionality productive; group IGHV; subgroup HV4.	361

Query Results - Mozilla Firefox

Fichier Edition Affichage Aller à Marque-pages Outils ?

http://srs.ebi.ac.uk/srsbin/cgi-bin/wgetz OK srs

EMBL-EBI
European Bioinformatics Institute

Quick Search Library Page Query Form Tools Results Projects Views Databanks **HELP**

Reset Query "([imgtligm-AllText:CLL*] | [imgtligm-AllText:chronic lymphocytic leukemia*]) & [imgtligm-Division:HUM*)" found 950 entries **next**

Apply Options to:

☐ selected results only
☒ unselected results only

Result Options

Launch analysis tool:
 Launch

Show tools relevant to these results: **Tools**

Link to related information: **Link**

Save results: **Save**

Display Options

View results using:

Show results per page

```


>imgtligm|AF021940|AF021940 Homo sapiens ID:CLL097 IgA heavy chain variable region mRNA, partial cds. ; RNA; 1
cagggtgcagctggtgcaatctgggtctgagttgaagaagcctggggcctcagtgaaggtt
tcttgcagggtctctggatacaccttcactagctatgctatgaattgggtgcgacaggcc
cctggacaagggcttgagtggatgggatggatcaacaccaacactgggaacccaacgtat
gcccagggttcacaggacggtttgtcttctccttggacacctctgtcagcacggcatat
ctgcagatcagcagcctaaggctgaggacactgccgtgtattactgtgcgagagtcctaa
tggttcggggagtatcttcttgactactggggccagggaacccctggtcaccgtctctcctca
g
>imgtligm|AF021941|AF021941 Homo sapiens ID:CLL158 IgA heavy chain variable region mRNA, partial cds. ; RNA; 1
cagggtgcagctggtgcagctctggggctgaggtgaagaagcctggggcctcagtgaaggtc
tcttgcagggtctctggatacaccttcaccggctactatatgcactgggtgcgacaggcc
cctggacaagggcttgagtggatgggatggatcaacccaaacagtgggtggcacaagtat
gcacagaagtttcagggtcgggtcaccatgaccagggaacagctccatcagcacagcctac
atggagctgagcagcgtgagatctgacgacacggccgtgtattactgtgcgagagggtat
tgtagtagtaccagttgttataaggggtacaaactgggttcgacccttggggccagggaacc
ctggtcaccgtctcctcag
>imgtligm|AF021942|AF021942 Homo sapiens ID:CLL078 IgG heavy chain variable region mRNA, partial cds. ; RNA; 1
cagggtgcagctggtggagctctgggggaggcgtgggtccagcctgggaggtccctgagactc
tctgtgcagcctctggattccaccctaagaaccttggcatgcagtggttcgcccaggct
ccagggaaggggtgagtggtgggtggcggtatatacatatggtggaggttaataaatactat
acagactccgtgaagggccgattccacgtctccagagacaattccaagaacacgttgtat
ctgcaaatgcacagcctgagacctgaggacacggctgtgtattactgtgcgaagatggt
catgactacacctggggtgactactactactacatggacgtctggggcaaggggaccacg
gtcacgtctcctcag
>imgtligm|AF021943|AF021943 Homo sapiens ID:CLL089 IgG heavy chain variable region mRNA, partial cds. ; RNA; 1
gaggtgcagttgttgagctctgggggaggccttggaaacagcctggggggtccctgagactc
tctgtgcagcctctggattcacctttaccactatgccatgagctgggttcgcccaggct
ccagggaaggggtgaagtgggtctcatatataagtgcgagtggtggttaggacattctac
gcagactccgtgaagggccgggttcaccatctccagagacagttccgagaacacgctctat
ctgcaaatgaacagcctgagagctgaggacacggccgtatattattgtgcgaactaagg
agttcgtccaggcttcccgagcgttactaccactactactctatggacgtttgggggcaa
gggaccacggtcaccgtctcctcag
>imgtligm|AF021944|AF021944 Homo sapiens ID:CLL109 IgG heavy chain variable region mRNA, partial cds. ; RNA; 1
caggttcactgctgagctctgagctgaggtgaggaagcctggggcctcagtgaaggtc

```

Sauvegarde des resultats

Save Options - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

 **EMBL-EBI**
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Quick Search Library Page Query Form Tools Results Projects Views Databanks **HELP**

Reset

Saving: Query "(((([embl-Keywords:immunoglobulin*] & [embl-Division:HUM*]) & ([embl-FtKey:V_region*] > parent)) & [embl-AllText:leukemia*]))" 133 entries

Output To:

☒ Browser Window (HTML) ☐ File (text)

Number of entries to download: 30

Save As:

☒ ASCII text/table

Save with view: EMBL1

Column Separator: \t Record Separator: \n

☐ Generic XML format

Using the loader: SeqSimp

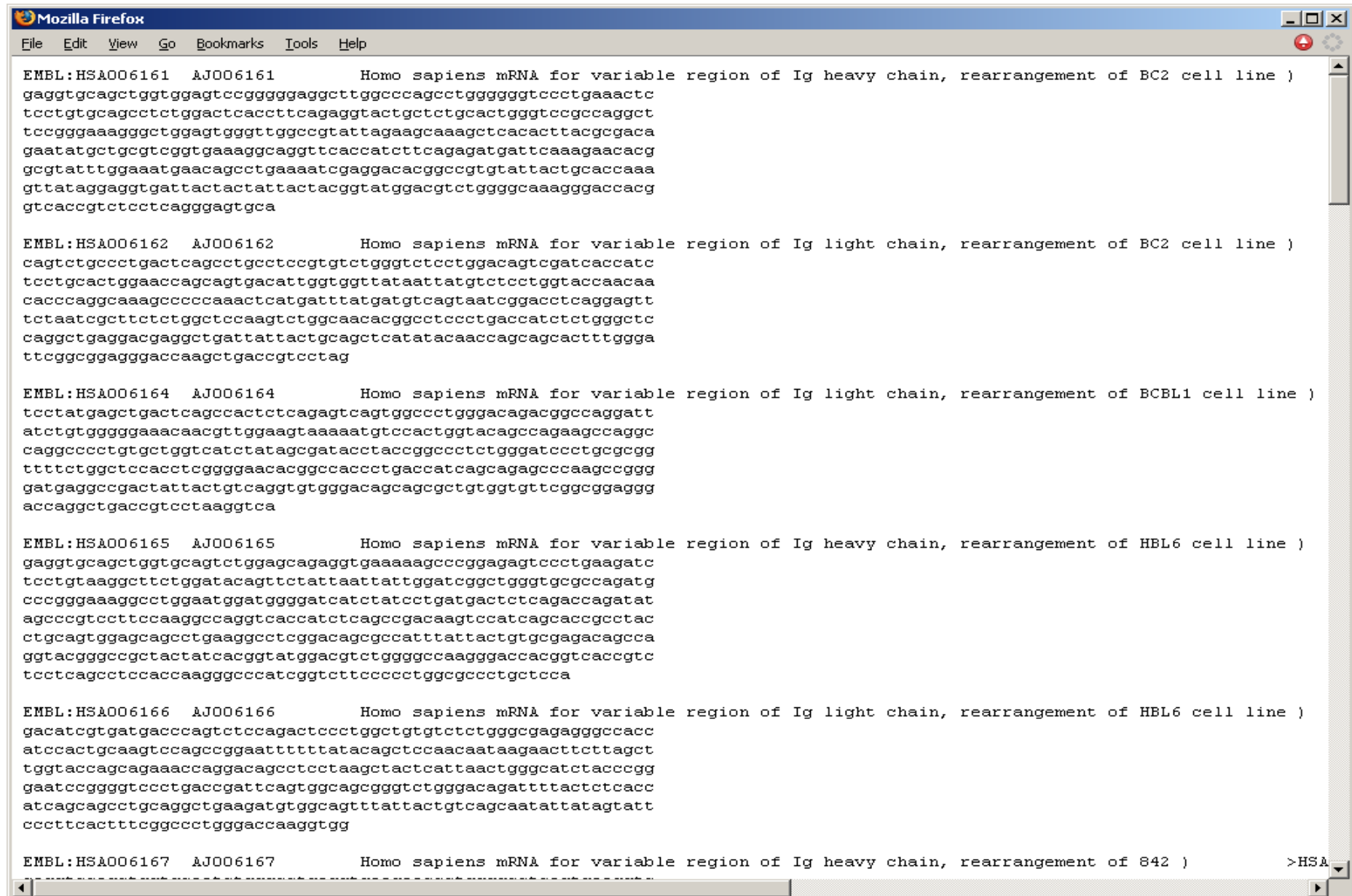
☐ Specific XML format

Using the loader: SeqSimp

Using XML PrintMetaphors with id: no valid metaphors found

Save

Sauvegarde des resultats



```
EMBL:HS006161 AJ006161 Homo sapiens mRNA for variable region of Ig heavy chain, rearrangement of BC2 cell line )
gaggtgcagctgggtggagtcggggggaggcttggcccagcctgggggggtccctgaaactc
tcctgtgcagcctctggactcaccttcagaggtactgctctgactgggtccgcccaggct
tccgggaaagggctggagtggttggccgtattagaagcaaagctcacacttacgcgaca
gaatatgctgcgtcggtgaaaggcaggttcaccatcttcagagatgattcaaagaacacg
gcgtatttggaaatgaacagcctgaaaatcgaggacacggcgtgtattactgcacaaa
gttataggaggtgattactactattactacgggtatggacgtctggggcaaagggaaccag
gtcaccgtctcctcaggagtgca

EMBL:HS006162 AJ006162 Homo sapiens mRNA for variable region of Ig light chain, rearrangement of BC2 cell line )
cagtctgccctgactcagcctgcctccgtgtctgggtctcctggacagtcgatcaccatc
tcctgactggaaccagcagtgacattgggtggttataattatgtctcctgggtaccaaaa
caccagggcaaagcccccactcatgatttatgatgtcagtaatcggacctcaggagtt
tctaactcgttctctgggtccaagtctggcaacacggcctccttgaccatctctgggtc
caggctgaggacgaggctgattattactgcagtcataataaccagcagcactttggga
ttcggcgagggaaccagctgaccgtcctag

EMBL:HS006164 AJ006164 Homo sapiens mRNA for variable region of Ig light chain, rearrangement of BCBL1 cell line )
tcctatgagctgactcagccactctcagagtcagtgccctgggacagacggccaggatt
atctgtgggggaaacaacgttgggaagtaaaaatgtccactgggtacagccagaagccaggc
caggccctgtgctgggtcatctatagcgatacctaccggccctctgggacccctgcgcgg
ttttctgggtccacctcggggaaacacggccaccctgaccatcagcagagcccaagccggg
gatgaggccgactattactgtcaggtgtgggacagcagcgtgtggtgttcggcgagggg
accaggtgaccgtcctaagggtca

EMBL:HS006165 AJ006165 Homo sapiens mRNA for variable region of Ig heavy chain, rearrangement of HBL6 cell line )
gaggtgcagctgggtgcagtcctggagcagaggtgaaaaagcccgagagtccttgaaagtc
tcctgtaaagcttctggatagattctattaattattggatcggctgggtgcgcccagatg
cccggaagggcctggaatggatggggatcatctatcctgatgactctcagaccagatat
agcccgctccttccaaggccaggtcaccatctcagccgacaagtccatcagcaccgcctac
ctgcagtgagcagcctgaaggcctcggacagcgccatttattactgtgcgagacagcca
ggtacgggcccgtactatcacgggtatggacgtctggggccaagggaaccaggtcaccgtc
tcctcagcctccaccaaggggcccatcggtcttccccctggcgccctgctcca

EMBL:HS006166 AJ006166 Homo sapiens mRNA for variable region of Ig light chain, rearrangement of HBL6 cell line )
gacatcgtgatgaccagtcctccagactccctggctgtgtctctggcgagagggccacc
atccactgcaagtcacgcccgaattttttatacagctccaacaataagaacttcttagct
tggtaccagcagaaaccaggacagcctcctaagctactcattaactgggcatctaccggg
gaatccggggtcctgaccgattcagtggcagcgggtctgggacagattttactctcacc
atcagcagcctgcaggtgaagatgtggcagtttattactgtcagcaatattatagttatt
cccttcactttcggccctgggaccaaggtgg

EMBL:HS006167 AJ006167 Homo sapiens mRNA for variable region of Ig heavy chain, rearrangement of 842 ) >HSA
```


3 - Recherche étendue:

Extended Query Form - Mozilla Firefox

Fichier Edition Affichage Aller à Marque-pages Outils ?

http://srs.ebi.ac.uk/srsbin/cgi-bin/wgetz OK G srs

EMBL-EBI
European Bioinformatics Institute

Quick Search Library Page **Query Form** Tools Results Projects Views Databanks **HELP**

Reset search IMGT/LIGM-DB

Search Options	Fields you can search	Your search terms	Create a view
Combine search terms with: <input type="text" value="& (AND)"/>	In a single field, you can separate multiple values by &, , !		Search
Use wildcards <input checked="" type="checkbox"/>	AllText	<input type="text"/>	<input type="checkbox"/>
Get results of type: <input type="text" value="Entry"/>	ID	<input type="text"/>	<input type="checkbox"/>
	Division	<input type="checkbox"/> hum <input type="checkbox"/> inv <input type="checkbox"/> mam <input type="checkbox"/> pro <input type="checkbox"/> rod <input type="checkbox"/> syn <input type="checkbox"/> unc <input type="checkbox"/> vrl <input type="checkbox"/> vrt	<input type="checkbox"/>
	AccNumber	<input type="text"/>	<input type="checkbox"/>
	Molecule	<input type="checkbox"/> circular dna <input type="checkbox"/> circular other dna <input type="checkbox"/> circular rna <input type="checkbox"/> dna <input type="checkbox"/> genomic dna <input type="checkbox"/> mrna <input type="checkbox"/> other dna <input type="checkbox"/> other rna <input type="checkbox"/> pre-rna <input type="checkbox"/> rna <input type="checkbox"/> unassigned dna <input type="checkbox"/> unassigned rna <input type="checkbox"/> xxx	<input type="checkbox"/>
	Description	<input type="text"/>	<input type="checkbox"/>
	Keywords	<input type="text"/>	<input type="checkbox"/>
	Organism	<input type="text"/>	<input type="checkbox"/>

Result Display Options

☒ View results using:

or

☐ Create a view using selected fields

Sequence Format:

Show results per page

References subentry fields

References ▾

View results using: * Names only * ▾

||| ➡ Search

[RefPosition](#)[PubMedID](#)[MedlineID](#)[RefGroup](#)[Authors](#)[Title](#)[Journal](#)[VolumeNo](#)[FirstPage](#)[Year](#)

>= ▾

<= ▾

>= ▾

<= ▾

>= ▾

<= ▾

Features subentry fields

Features ▾

View results using: * Names only * ▾

||| ➡ Search

[FtKey](#)

- ☒ or
☐ and

-10_signal

-35_signal

3'clip

3'utr

5'clip

5'utr

attenuator

[FtQualifier](#)

- ☒ or
☐ and

allele

anticodon

bound_moiety

cell_line

cell_type

chromosome

citation

[ProteinID](#)[Gene](#)[FtDescription](#)[FtLength](#)

>= ▾

<= ▾

Counters subentry fields

Counters ▾

View results using: * Names only * ▾

||| ➡ Search

ENTREZ

<http://www.ncbi.nlm.nih.gov/>

La page d'accueil du NCBI (<http://www.ncbi.nlm.nih.gov/>)

NCBI HomePage - Mozilla Firefox

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http://www.ncbi.nlm.nih.gov/ OK entrez

NCBI
National Center for Biotechnology Information
National Library of Medicine National Institutes of Health

PubMed All Databases BLAST OMIM Books TaxBrowser Structure

Search Nucleotide for immunoglobulin Go

SITE MAP
Alphabetical List
Resource Guide

About NCBI
An introduction to NCBI

GenBank
Sequence submission
support and software

**Literature
databases**
PubMed, OMIM, Books,
and PubMed Central

**Molecular
databases**
Sequences, structures,
and taxonomy

Genomic biology
The human genome,
whole genomes, and
related resources

Tools
Data mining

**Research at
NCBI**
People, projects, and
seminars

What does NCBI do?

Established in 1988 as a national resource for molecular biology information, NCBI creates public databases, conducts research in computational biology, develops software tools for analyzing genome data, and disseminates biomedical information - all for the better understanding of molecular processes affecting human health and disease. [More...](#)

Hot Spots

- Assembly Archive
- Clusters of orthologous groups
- Coffee Break, Genes & Disease, NCBI Handbook
- Electronic PCR
- Entrez Home**
- Entrez Tools
- Gene expression omnibus (GEO)
- Human genome resources
- Influenza Virus Resource
- Map Viewer
- dbMHC
- Mouse genome resources
- NCBI

Whole Genome Association

The NCBI Whole Genome Association (WGA) resource provides researchers with access to genotype and associated phenotype information that will help elucidate the link between genes and disease. For more information, click here to see the the [WGA](#) resource page and click here to read the [press release](#).

NCBI Citations

Two papers authored by researchers at NCBI are among the top 40 most cited articles for 2005 according to ScienceWatch's "Hottest Research of 2004-05" list. The papers describe NCBI's [Conserved Domain Database](#) and [Reference Sequence database](#). Click on the links above to view the papers.

Rechercher : chroni Occurrence suivante Occurrence précédente Surligner tout Respecter la casse

Entrez at <http://www.ncbi.nlm.nih.gov/gquery/gquery.fcgi>

Entrez cross-database search - Mozilla Firefox

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http://www.ncbi.nlm.nih.gov/gquery/gquery.fcgi OK entrez





























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Entrez, The Life Sciences Search Engine

HOME SEARCH SITE MAP PubMed All Databases Human Genome GenBank Map Viewer BLAST

Search across databases GO CLEAR Help

Welcome to the Entrez cross-database search page

 PubMed: biomedical literature citations and abstracts	 Books: online books
 PubMed Central: free, full text journal articles	 OMIM: online Mendelian Inheritance in Man
 Site Search: NCBI web and FTP sites	 OMIA: online Mendelian Inheritance in Animals
 Nucleotide: sequence database (includes GenBank)	 UniGene: gene-oriented clusters of transcript sequences
 Protein: sequence database	 CDD: conserved protein domain database
 Genome: whole genome sequences	 3D Domains: domains from Entrez Structure
 Structure: three-dimensional macromolecular structures	 UniSTS: markers and mapping data
 Taxonomy: organisms in GenBank	 PopSet: population study data sets
 SNP: single nucleotide polymorphism	 GEO Profiles: expression and molecular abundance profiles
 Gene: gene-centered information	 GEO DataSets: experimental sets of GEO data
 HomoloGene: eukaryotic homology groups	 Cancer Chromosomes: cytogenetic databases
 PubChem Compound: unique small molecule chemical structures	 PubChem BioAssay: bioactivity screens of chemical substances
 PubChem Substance: deposited chemical substance records	 GENSAT: gene expression atlas of mouse central nervous system
 Genome Project: genome project information	 Probe: sequence-specific reagents

Entrez cross-database search - Mozilla Firefox

Fichier Edition Affichage Aller à Marque-pages Outils ?

http://www.ncbi.nlm.nih.gov/gquery/gquery.fcgi OK entrez













NCBI







































Entrez, The Life Sciences Search Engine

HOME SEARCH SITE MAP PubMed All Databases Human Genome GenBank Map Viewer BLAST

Search across databases GO CLEAR Help

Welcome to the Entrez cross-database search page

 PubMed: biomedical literature citations and abstracts 	 Books: online books 
 PubMed Central: free, full text journal articles 	 OMIM: online Mendelian Inheritance in Man 
 Site Search: NCBI web and FTP sites 	 OMIA: online Mendelian Inheritance in Animals 

 Nucleotide: sequence database (includes GenBank) 	 UniSTS: markers and mapping data 
 Protein: sequence database 	 PopSet: population study data sets 
 Genome: whole genome sequences 	 GEO Profiles: expression and molecular abundance profiles 
 Structure: three-dimensional macromolecular structures 	 GEO DataSets: experimental sets of GEO data 
 Taxonomy: organisms in GenBank 	 Cancer Chromosomes: cytogenetic databases 
 SNP: single nucleotide polymorphism 	 PubChem BioAssay: bioactivity screens of chemical substances 
 Gene: gene-centered information 	 GENSAT: gene expression atlas of mouse central nervous system 
 HomoloGene: eukaryotic homology groups 	 Probe: sequence-specific reagents 
 PubChem Compound: unique small molecule chemical structures 	
 PubChem Substance: deposited chemical substance records 	
 Genome Project: genome project information 	

Database Description
The **Entrez Nucleotides** database is a collection of sequences from several sources, including GenBank, RefSeq, and PDB. The number of bases grows at an exponential rate.

Rechercher : chroni Occurrence suivante Occurrence précédente Surligner tout Respecter la casse

Recherche générale

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http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=Nucleotide

entrez

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All Databases

Search Nucleotide for chronic lymphocytic leukemia Go Clear

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Search for Genes

Submit to GenBank

Search for full length cDNAs

The Entrez Nucleotides database is a collection of sequences from several sources, including GenBank, RefSeq, and PDB. The number of bases in these databases continues to grow at an exponential rate. As of April 2006, there are over 130 billion bases in GenBank and RefSeq alone.

Human Genome

Explore [human genome resources](#) or browse the human genome sequence using the [Map Viewer](#).

Building the human genome

The Human Genome Reference DNA Sequence was completed in April 2003. The current version is listed as a build number on the [Genome View](#) page and includes an accompanying set of [statistics](#) and [release notes](#).

Homo sapiens (human) genome view

Build 36.1 statistics [Switch to previous build](#)

BLAST search the human genome

Hi tes 1 2 2 4 5 6 7 8 9 10 11 12 13

Hi tes 14 15 16 17 18 19 20 21 22 X Y HI not placed 1

Rechercher : chroni Occurrence suivante Occurrence précédente Surligner tout Respecter la casse

Affiner ses recherches par l'onglet limits

Entrez Nucleotide - Mozilla Firefox

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http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=Nucleotide OK G-entrez

NCBI

Search Nucleotide for chronic lymphocytic leukemia Go Clear

☒ Limits Preview/Index History Clipboard Details

Limits: exclude all of the above, Genomic DNA/RNA

The Entrez Nucleotides database is a collection of sequences from several sources, including GenBank, RefSeq, and PDB. The number of bases in these databases continues to grow at an exponential rate. As of April 2006, there are over 130 billion bases in GenBank and RefSeq alone.

Human Genome

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Homo sapiens (human) genome view

[Build 36.1 statistics](#) [Switch to previous build](#)

BLAST search the human genome

Hits

1 2 3 4 5 6 7 8 9 10 11 12 13

14 15 16 17 18 19 20 21 22 X Y III not placed

1

Affiner ses recherches par l'onglet "Limits" Procéder par étapes: 1) "chronic lymphocytic leukemia" dans tous les champs

Entrez Nucleotide - Mozilla Firefox

Fichier Edition Affichage Aller à Marque-pages Outils ?

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?CMD=Limits&DB=nucleotide

My NCBI [Sign In] [Registered]

NCBI

All Databases PubMed Nucleotide Protein Genome Structure PMC Taxonomy Books

Search Nucleotide for chronic lymphocytic leukemia Go Clear

Limits Preview/Index History Clipboard Details

Limits: **exclude all of the above, Genomic DNA/RNA**

- Use All Fields pull-down menu to specify a field.
- Boolean operators AND, OR, NOT must be in upper case.
- If search fields tags are used enclose in square brackets, e.g., rubella [ti].
- More help on using limits is available [here](#).

Limited to:

All Fields

☐ exclude ESTs ☐ exclude GSS ☐ exclude STSs ☐ exclude TPA ☐ exclude working draft ☐ exclude patents ☒ exclude all of the above

mRNA Gene Location Segmented Sequences

Only from Modification Date

Modification Date From To

Use the format YYYY/MM/DD; month and day are optional.

Disclaimer | Write to the Help Desk
NCBI | NLM | NIH

Oct 2 2006 08:20:36

Affiner ses recherches par l'onglet limits

Entrez Nucleotide - Mozilla Firefox

Entrez

Search Nucleotide for chronic lymphocytic leukemia Go Clear Save Search

☒ Limits Preview/Index History Clipboard Details

Limits: **exclude all of the above, mRNA**

Display Summary Show 20 Send to

All: 1510 bacteria: 0 mRNA: 1510 RefSeq: 240

Show only records from: CoreNucleotide (1510), EST (0), GSS (0). [What's this?]

Items 1 - 20 of 1510 Page 1 of 76 Next

- ☐ 1: [NM_000655](#) Reports Links
Homo sapiens selectin L (lymphocyte adhesion molecule 1) (SELL), mRNA
gi|115430250|ref|NM_000655.3|[115430250]
- ☐ 2: [NM_198253](#) Reports Links
Homo sapiens telomerase reverse transcriptase (TERT), transcript variant 1, mRNA
gi|109633030|ref|NM_198253.2|[109633030]
- ☐ 3: [NM_198255](#) Reports Links
Homo sapiens telomerase reverse transcriptase (TERT), transcript variant 2, mRNA
gi|109633029|ref|NM_198255.2|[109633029]
- ☐ 4: [NM_005957](#) Reports Links
Homo sapiens 5,10-methylenetetrahydrofolate reductase (NADPH) (MTHFR), mRNA
gi|87239999|ref|NM_005957.3|[87239999]
- ☐ 5: [NM_001033756](#) Reports Links
Homo sapiens vascular endothelial growth factor (VEGF), transcript variant 7, mRNA
gi|76781486|ref|NM_001033756.1|[76781486]
- ☐ 6: [NM_138957](#) Reports Links
Homo sapiens mitogen-activated protein kinase 1 (MAPK1), transcript variant 2, mRNA
gi|75709179|ref|NM_138957.2|[75709179]
- ☐ 7: [NM_002745](#) Reports Links
Homo sapiens mitogen-activated protein kinase 1 (MAPK1), transcript variant 1, mRNA

Affiner ses recherches par l'onglet "Limits" Procéder par étapes: 2) restreindre la recherche aux séquences ARNm humaines

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Fichier Edition Affichage Aller à Marque-pages Outils ?

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?CMD=Limits&DB=nucleotide OK entrez

NCBI

Entrez Nucleotide

Search Nucleotide for human Go Clear

Limits Preview/Index History Clipboard Details

Limits: exclude all of the above, mRNA

- Use All Fields pull-down menu to specify a field.
- Boolean operators AND, OR, NOT must be in upper case.
- If search fields tags are used enclose in square brackets, e.g., rubella [ti].
- More help on using limits is available [here](#).

Limited to:

Organism

☐ exclude ESTs ☐ exclude GSS ☐ exclude STSs ☐ exclude TPA

☐ exclude working draft ☐ exclude patents

☒ exclude all of the above

mRNA Gene Location Segmented Sequences

Only from Modification Date

Modification Date From To

Use the format YYYY/MM/DD; month and day are optional.

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http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?CMD=search&DB=nucleotide OK entrez

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CGCTCAGGATAGACTTCGCGGCTAGAGATCGGATCCCGGCGGATTATTATATAGCTCGATCGATCT
TTCTCTATATTCGCGGATATGGGTTATATACACACACAGCGCGGATAGCATGACTGATCTA
CCCCAGGATATGCTTTCGCGGATATGGGTTATATACACACACAGCGCGGATAGCATGACTGATCTA
CAGAGACTTACCGGATATGCTTTCGCGGATATGGGTTATATACACACACAGCGCGGATAGCATGACTGATCTA

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All Databases PubMed Nucleotide Protein Genome Structure PMC Taxonomy Books

Search Nucleotide for human Go Clear Save Search

☒ Limits Preview/Index **History** Clipboard Details

Field: **Organism**, Limits: **exclude all of the above, mRNA**

Display Summary Show 20 Send to

All: 248559 bacteria: 0 mRNA: 248559 RefSeq: 38154

Show only records from: CoreNucleotide (248559), EST (0), GSS (0). [What's this?]

Items 1 - 20 of 248559 Page 1 of 12428 Next

☐ 1: [AB255451](#) Reports Links
Homo sapiens SAKI mRNA for putative 5-methycytosine methyltransferase, complete cds
gi|115501315|dbj|AB255451.1|[115501315]

☐ 2: [NM_207391](#) Reports Links
Homo sapiens RGS9 anchor protein (RGS9BP), mRNA
gi|115496699|ref|NM_207391.2|[115496699]

☐ 3: [NM_000257](#) Reports Links
Homo sapiens myosin, heavy chain 7, cardiac muscle, beta (MYH7), mRNA
gi|115496168|ref|NM_000257.2|[115496168]

☐ 4: [NM_001009562](#) Reports Links
Homo sapiens organic anion transporter LST-3b (LST-3TM12), mRNA
gi|115495466|ref|NM_001009562.3|[115495466]

☐ 5: [NM_052997](#) Reports Links
Homo sapiens ankyrin repeat domain 30A (ANKRD30A), mRNA
gi|115495444|ref|NM_052997.2|[115495444]

☐ 6: [NM_144625](#) Reports Links
Homo sapiens WD repeat domain 64 (WDR64), mRNA
gi|115495442|ref|NM_144625.3|[115495442]

☐ 7: [NM_032510](#) Reports Links
Homo sapiens par-6 partitioning defective 6 homolog gamma (C. elegans) (PARD6G), mRNA

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http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?CMD=History&DB=nucleotide OK entrez

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Search Nucleotide for human Preview Go Clear

☒ Limits Preview/Index **History** Clipboard Details

Field: **Organism**, Limits: **exclude all of the above, mRNA**

- Search History will be lost after eight hours of inactivity.
- Search numbers may not be continuous; all searches are represented.
- To save search indefinitely, click query # and select Save in My NCBI.
- To combine searches use #search, e.g., #2 AND #3 or click query # for more options.

Search	Most Recent Queries	Time	Result
#64	Search human Field: Organism , Limits: exclude all of the above, mRNA	03:26:16	248559
#60	Search chronic lymphocytic leukemia Limits: exclude all of the above, mRNA	03:24:15	1510
#56	Search immunoglobulin heavy Limits: exclude all of the above, Genomic DNA/RNA	03:20:23	20640
#52	Search human Field: Organism , Limits: exclude all of the above, Genomic DNA/RNA	03:19:41	1015464
#48	Search CLL Limits: exclude all of the above, Genomic DNA/RNA	03:19:18	600
#44	Search CLL Limits: exclude all of the above	03:18:40	1267
#40	Search chronic lymphocytic leukemia Limits: exclude ESTs, exclude GSS, exclude STSs, exclude TPA,	03:17:09	1864

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Search Nucleotide for human Preview Go Clear

☒ Limits Preview/Index **History** Clipboard Details

Field: **Organism, Limits: exclude all of the above, mRNA**

- Search **AND** after eight hours of inactivity.
- Search continuous; all searches are represented.
- To save click query # and select Save in My NCBI.
- To combine search, e.g., #2 AND #3 or click query # for more options.

Search **AND** **OR** **NOT** **Delete** **Go** **Details** **Save in My NCBI**

Most Recent Queries

	Time	Result
#64 Search Organism, Limits: exclude all of the above, mRNA	03:26:16	248559
#60 Search chronic lymphocytic leukemia Limits: exclude all of the above, mRNA	03:24:15	1510
#56 Search immunoglobulin heavy Limits: exclude all of the above, Genomic DNA/RNA	03:20:23	20640
#52 Search human Field: Organism, Limits: exclude all of the above, Genomic DNA/RNA	03:19:41	1015464
#48 Search CLL Limits: exclude all of the above, Genomic DNA/RNA	03:19:18	600
#44 Search CLL Limits: exclude all of the above	03:18:40	1267
#40 Search chronic lymphocytic leukemia Limits: exclude ESTs, exclude GSS, exclude STSs, exclude TPA,	03:17:09	1864

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http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?CMD=Preview&DB=nucleotide OK entrez

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Search Nucleotide for **[(human) AND (#64)) AND (#60)]** Preview Go Clear [Save Search](#)

☒ Limits Preview/Index History Clipboard Details

Field: **Organism**, Limits: **exclude all of the above, mRNA**

- Search History will be lost after eight hours of inactivity.
- Search numbers may not be continuous; all searches are represented.
- To save search indefinitely, click query # and select Save in My NCBI.
- To combine searches use #search, e.g., #2 AND #3 or click query # for more options.

Search	Most Recent Queries	Time	Result
#68	Search [(human) AND (#64)) AND (#60)] Field: Organism , Limits: exclude all of the above, mRNA	03:39:31	1501
#64	Search human Field: Organism , Limits: exclude all of the above, mRNA	03:26:16	248559
#60	Search chronic lymphocytic leukemia Limits: exclude all of the above, mRNA	03:24:15	1510
#56	Search immunoglobulin heavy Limits: exclude all of the above, Genomic DNA/RNA	03:20:23	20640
#52	Search human Field: Organism , Limits: exclude all of the above, Genomic DNA/RNA	03:19:41	1015464
#48	Search CLL Limits: exclude all of the above, Genomic DNA/RNA	03:19:18	600
#44	Search CLL Limits: exclude all of the above	03:18:40	1267

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All Databases PubMed Nucleotide Protein Genome Structure PMC Taxonomy Books

Search Nucleotide for [(human) AND (#64)] AND (#60] Go Clear Save Search

☒ Limits Preview/Index History Clipboard Details

Field: **Organism, Limits: exclude all of the above, mRNA**

Display Summary Show 20 Send to

All: 1501 bacteria: 0 mRNA: 1501 RefSeq: 231

Show only records from: CoreNucleotide (1501), EST (0), GSS (0), [What's this?]

Items 1 - 20 of 1501 Page 1 of 76 Next

☐ 1: [NM_000655](#) Reports Links
Homo sapiens selectin L (lymphocyte adhesion molecule 1) (SELL), mRNA
gi|115430250|ref|NM_000655.3|[115430250]

☐ 2: [NM_198253](#) Reports Links
Homo sapiens telomerase reverse transcriptase (TERT), transcript variant 1, mRNA
gi|109633030|ref|NM_198253.2|[109633030]

☐ 3: [NM_198253](#) Reports Links

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http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?CMD=search&DB=nucleotide OK entrez

NCBI

Search Nucleotide for Limits Preview/Index

Field: Organism, Limits: exclude Display Summary

All: 1501 bacteria: 0 mRNA: 0

Show only records from: Items 1 - 20

1: [NM_000655](#) Reports
Homo sapiens selectin L (lymphocyte adhesion molecule 1) (SELL), mRNA
gi|115430250|ref|NM_000655.3|[115430250]

2: [NM_198253](#) Reports
Homo sapiens telomerase reverse transcriptase (TERT), transcript variant 1, mRNA
gi|109633030|ref|NM_198253.2|[109633030]

3: [NM_198253](#) Reports

ASN.1
XML
Summary
Brief
FASTA
TinySeq XML
GenBank
INSDSeq XML
GenBank(Full)
GI List
Graphic
Revision History

Go Clear Save Search

Details

Send to

EST (0), GSS (0), [What's this?]

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Links

Links

Links

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http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?CMD=search&DB=nucleotide OK entrez

NCBI

Entrez Nucleotide

Search Nucleotide for [(human) AND (#64)] AND (#60) Go Clear Save Search

Limits Preview/Index History Clipboard Details

Field: **Organism, Limits: exclude all of the above, mRNA**

Display Summary Show 20 Send to

All: 1501 bacteria: 0 mRNA: 1501 RefSeq: 231

Show only records from: CoreNucleotide (1501), EST (0), GSS (0), [What's this?]

Items 1 - 20 of 1501

1: NM_000655 Reports
Homo sapiens selectin L (lymphocyte adhesion molecule 1) (SELL), mRNA
gi115430250|ref|NM_000655.3|[115430250]

2: NM_198253 Reports
Homo sapiens telomerase reverse transcriptase (TERT), transcript variant 1, mRNA
gi109633030|ref|NM_198253.2|[109633030]

Links

- Gene
- Genome Project
- Full text in PMC
- PubMed (RefSeq)
- GeneView in dbSNP
- Related Sequences
- OMIM
- Protein
- PubMed
- Taxonomy

Ensembl Genome Browser

<http://www.ebi.ac.uk/ensembl>



- Ensembl Home
 - Human Genome
 - Mouse Genome
 - Mosquito Genome
 - Trace repository
-
- Latest Annual Report

Ensembl Genome Browser

Ensembl is a joint project between the [EMBL-EBI](#) and the Wellcome Trust Sanger Institute that aims at developing a system that maintains automatic annotation of large eukaryotic genomes. Access to all the software and data is free and without constraints of any kind. The project is primarily funded by the [Wellcome Trust](#). It is a comprehensive source of stable annotation with confirmed gene predictions that have been integrated from external data sources. [Ensembl](#) annotates known genes and predicts new ones, with functional annotation from [InterPro](#), [OMIM](#), [SAGE](#) and gene families.

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Mammalian genomes



[Homo sapiens](#)
UPDATED! NCBI 36 | [Vega](#)



[Pan troglodytes](#)
PanTro 1.0



[Macaca mulatta](#)
MMUL 0.1 | [pre!](#)



[Mus musculus](#)
UPDATED! NCBI m35 | [Vega](#)



[Rattus norvegicus](#)
RGSC 3.4

Other species



[Gallus gallus](#)
WASHUC 1



[Xenopus tropicalis](#)
UPDATED! JGI 4.1



[Danio rerio](#)
Zv 5 | [Vega](#) | [pre!](#)



[Fugu rubripes](#)
FUGU 4.0



[Tetraodon nigroviridis](#)
TETRAODON 7

Chimp genome Release



May 10th 2004

We are pleased to announce the availability of the assembly of the Chimp genome....
[more](#)

Zebrafish genome released



1 Apr 2004

We are pleased to announce the availability of the assembly of the zebrafish genome....
[more](#)

African mosquito genome sequence released

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Platypus
Ornithorhynchus

new

SETUP

CONFIG

RESULTS

DISPLAY

refresh

Online Help

Enter the Query Sequence

Either Paste sequences (max 30 sequences) in FASTA or plain text:

```
>TRAV7*02
ttggggagatggggatgtagtctggacttacttgtcattgcttgtttgagattaaga:
aaaattatgaaaggtctaaattaaaatgtacatattgtacctgatgtctttctgaat:
ggcaaatggagaaaaccaggtggagcacagccctcattttctgggacccagcaggg:
```

Or Upload a file containing one or more FASTA sequences

 Parcourir...

Or Enter a sequence ID or accession (EMBL, UniProt, RefSeq)

 Retrieve

Or Enter an existing ticket ID:

 Retrieve

- ☒ dna queries
☐ peptide queries

Select the databases to search against

Select species:
Use 'ctrl' key to select multiple species

Gallus_gallus
Gasterosteus_aculeatus
Homo_sapiens

- ☒ dna database Genomic sequence
☐ peptide database Known Consensus CDS Peptides (CCDS peptides)

Select the Search Tool

BLASTN
SSAHA2
TBLASTX

configure ▶ RUN ▶

Search sensitivity:
Optimise search parameters to find the following alignments

Near-exact matches

Summary

- ▶ setup
⌚ Not yet initialised
- ▶ configure
⌚ Not yet initialised
- ▶ results
⌚ Not yet initialised
- ▶ display
⌚ Not yet initialised

e! Ensembl Human BlastView

Search e! Human: e.g. [AL138722.15.1.44776](#), [ENSG00000139619](#)

Ensembl release 40 - Aug 2006

[Help](#)








Use Ensembl to...

-  Run a BLAST search
-  Search Ensembl
-  Data mining (BioMart)
-  Upload and view data on chromosome
-  Export data
-  Download data

Docs and downloads

-  Information
-  What's New
-  About Ensembl
-  Ensembl data
-  Software

Other links

-  Home
-  Sitemap
-  Vega
- Pre Ensembl**
-  View previous release of page in Archive!
-  Stable Archive! link for this page
-  Archive! sites
-  Trace server

[new](#)[SETUP](#)[CONFIG](#)[RESULTS](#)[DISPLAY](#)[refresh](#)[Online Help](#)

Summary

▶ **setup**

- Homo_sapiens
- Genomic sequence
- BLASTN
- Low sensitivity

▶ **configure**

- -E: 10
- -B: 100
- -filter: dust
- -RepeatMasker
- -W: 15
- -M: 1
- -N: -3
- -Q: 3
- -R: 3

▶ **results**

① Not yet initialised

▶ **display**

① Not yet initialised

Retrieve result for ID:

Retrieving Results

'Job pending' results can be retrieved by clicking on the button above. Alternatively, this page can be bookmarked for later, or the ID noted and entered on the BLAST page.







Results are retained for 7 days. After this, they must be re-submitted.

1: TRAV7*02 (411 letters) Vs. LATESTGP

Homo_sapiens

Job Queued









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now in
Ensembl **Pro!**

new

SETUP

CONFIG

RESULTS

DISPLAY

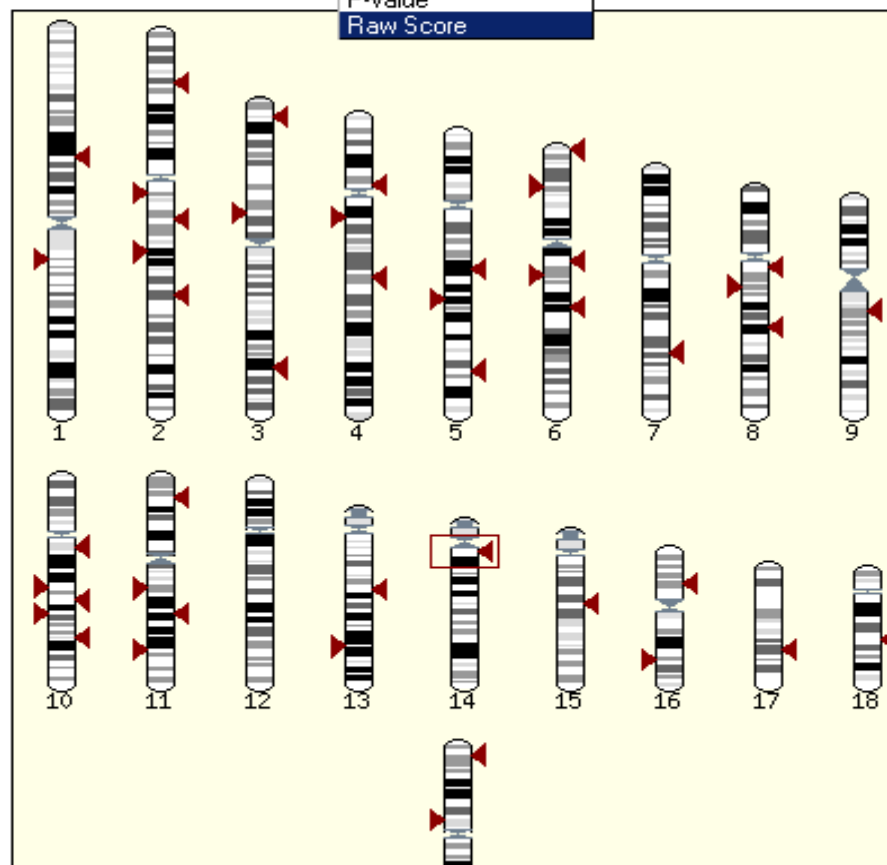
Displaying TRAV7-02 sequence alignments vs Homo_sapiens LATESTGP database

Showing top 100 alignments of 72, sorted by

Raw Score

- E-value
- Alignment Length
- % Identity
- P-value
- Raw Score

refresh

☒ Alignment Locations vs. Karyotype (click arrow to hide)

BlastView - Mozilla Firefox

Fichier Edition Affichage Aller à Marque-pages Outils ?

http://www.ensembl.org/Homo_sapiens/blastview/BLA_AUOYdi1f6 OK ensembl

☒ Alignment Summary (click arrow to hide)

Select rows to include in table, and type of sort
(Use the 'ctrl' key to select multiples)

refresh

Query:
 Subject:
 Chromosome:
 Supercontig:
 Clone:
 Config:
 Chromosome:
 Stats:
 SortBy:

Links	Query	Chromosome	Chromosome	Stats	SortBy
	Start End Ori	Name Start End Ori	Name Start End Ori	Score E-val %ID Length	
[A] [S] [G] [C]	1 411 +	Chr14 21321157 21321567 +	Chr14 21321157 21321567 +	407 1.4e-238 99.76 411	
[A] [S] [G] [C]	107 156 +	Chr14 21363776 21363825 +	Chr14 21363776 21363825 +	23 6.1e-06 86.27 51	
[A] [S] [G] [C]	312 334 +	Chr2 34656996 34657018 -	Chr2 34656996 34657018 -	23 0.039 100.00 23	
[A] [S] [G] [C]	373 397 +	Chr14 21368036 21368060 +	Chr14 21368036 21368060 +	21 1.4e-238 96.00 25	
[A] [S] [G] [C]	160 179 +	Chr10 104254880 104254899 +	Chr10 104254880 104254899 +	20 0.53 100.00 20	
[A] [S] [G] [C]	45 68 +	Chr11 110649522 110649544 +	Chr11 110649522 110649544 +	20 0.56 95.83 24	
[A] [S] [G] [C]	49 68 +	Chr7 116873471 116873490 +	Chr7 116873471 116873490 +	20 2.4 100.00 20	
[A] [S] [G] [C]	296 319 +	Chr9 72392010 72392033 +	Chr9 72392010 72392033 +	20 2.4 95.83 24	
[A] [S] [G] [C]	52 71 -	Chr11 72461362 72461381 +	Chr11 72461362 72461381 +	20 2.4 100.00 20	
[A] [S] [G] [C]	98 117 -	Chr10 80893029 80893048 +	Chr10 80893029 80893048 +	20 2.4 100.00 20	
[A] [S] [G] [C]	45 68 +	Chr4 45774605 45774627 +	Chr4 45774605 45774627 +	20 2.4 95.83 24	
[A] [S] [G] [C]	6 32 -	Chr17 54805387 54805413 -	Chr17 54805387 54805413 -	20 2.4 92.86 28	
[A] [S] [G] [C]	51 70 -	Chr4 63910131 63910130 -	Chr4 63910131 63910130 -	20 2.4 100.00 20	
[A] [S] [G] [C]	290 312 +	Chr3 12210823 12210844 +	Chr3 12210823 12210844 +	19 0.57 95.65 23	
[A] [S] [G] [C]	85 103 -	Chr15 47341138 47341136 +	Chr15 47341138 47341136 +	19 0.39 100.00 19	
[A] [S] [G] [C]	51 72 -	Chr3 167257982 167258004 +	Chr3 167257982 167258004 +	19 2.0 95.65 23	
[A] [S] [G] [C]	122 140 +	Chr21 32414377 32414395 +	Chr21 32414377 32414395 +	19 9.6 100.00 19	

Chromosome 14

21,319,157 - 21,323,567

- View of Chromosome 14
- Graphical view
- Graphical overview
- Export information about region
- Export sequence as FASTA
- Export EMBL file
- Export Gene info in region
- Export SNP info in region
- Export Vega info in region
- View alignment with ...
- View alongside ...
- View Syntenic regions ...
- View region in NCBI browser
- View region in UCSC browser

Use Ensembl to...

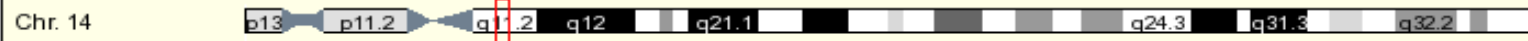
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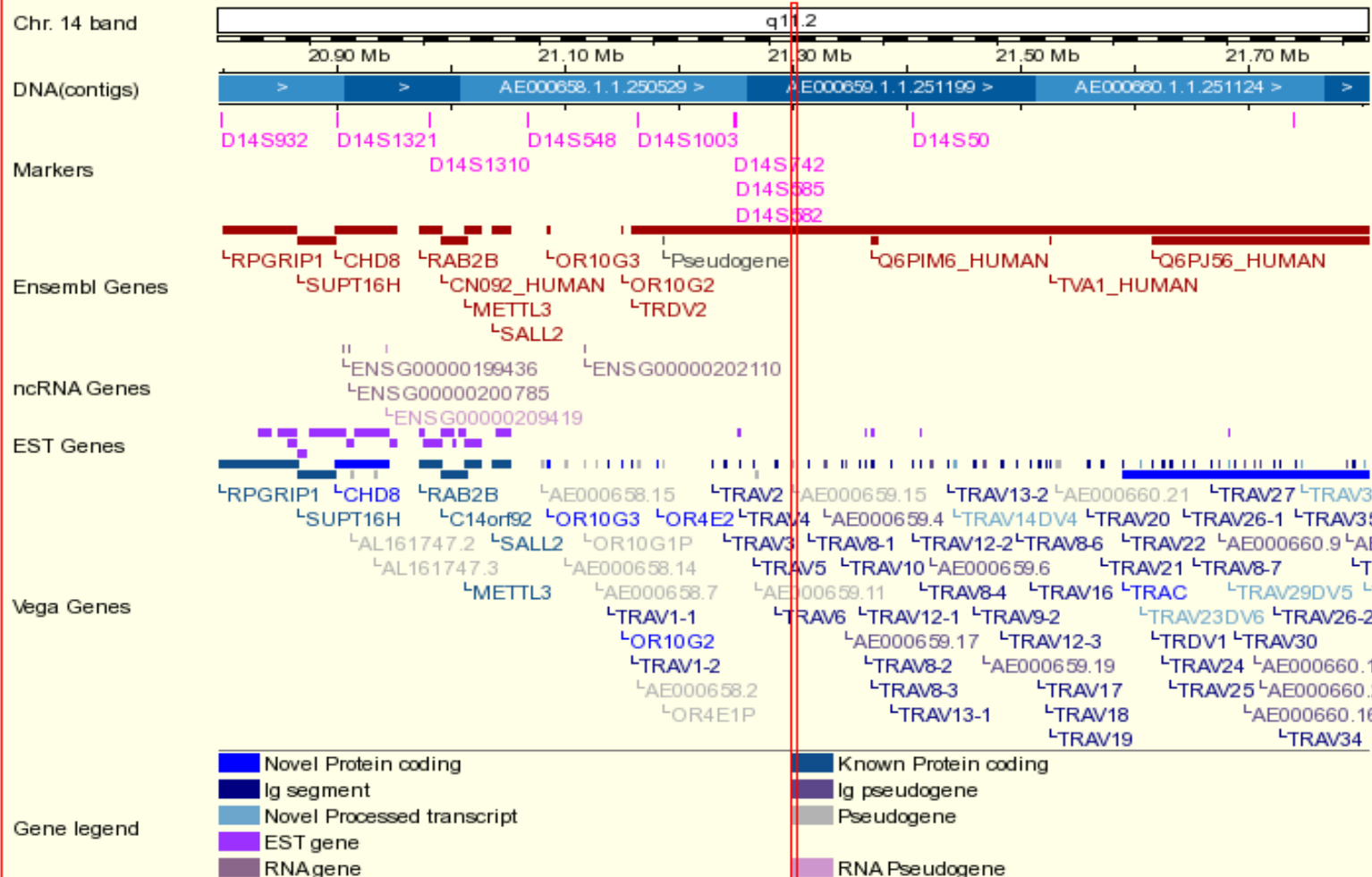
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Chromosome 14



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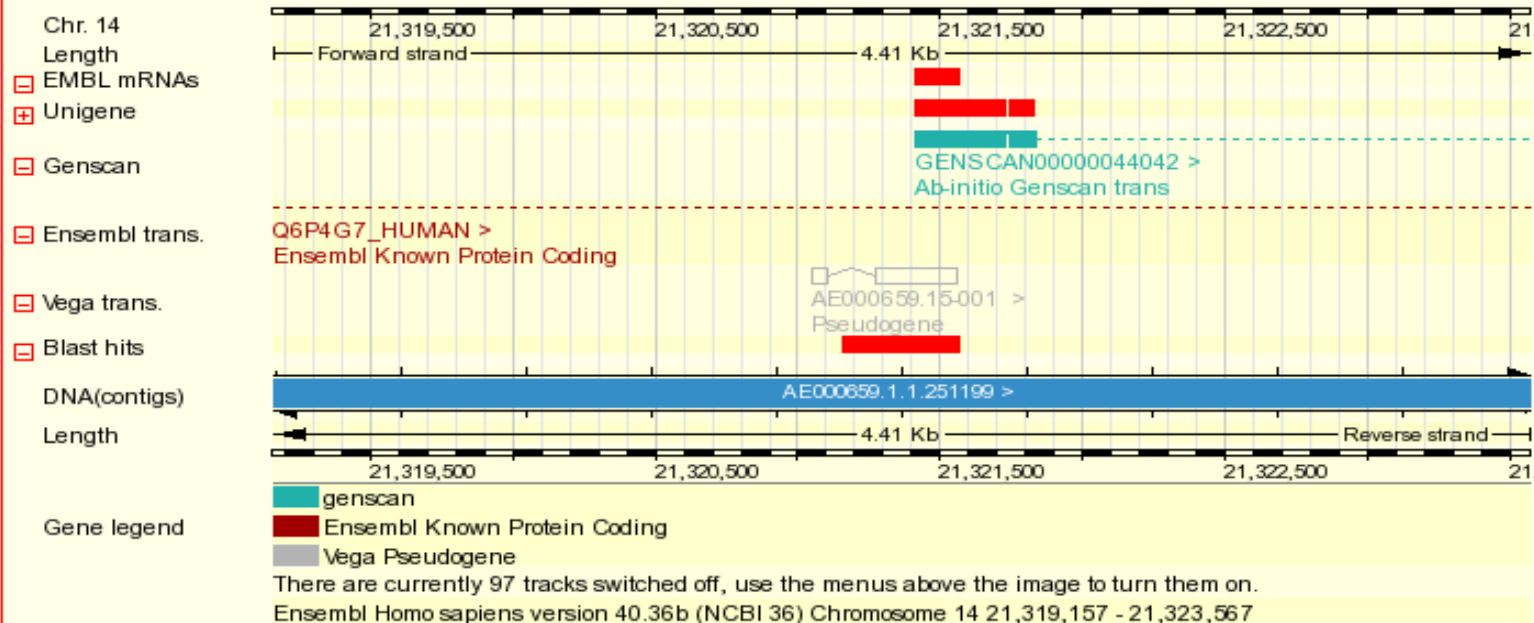
Gene legend		Novel Protein coding		Known Protein coding
		Ig segment		Ig pseudogene
		Novel Processed transcript		Pseudogene
		EST gene		RNA Pseudogene
		RNA gene		Ensembl Known Protein Coding
		Ensembl Novel Pseudogene		

Detailed view

Features ▾ Comparative ▾ DAS Sources ▾ Repeats ▾ Decorations ▾ Export ▾ Image size ▾ Help ▾

Jump to region : - [Refresh](#) Band: [Refresh](#)

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[< 2MB](#)
[< 1MB](#)
[Window](#)
[Window >](#)
[1MB >](#)
[2MB >](#)
[5MB >>](#)



Basepair view