

Resource Summary Report

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IMGT/LIGM-DB

RRID:SCR_006931

Type: Tool

Proper Citation

IMGT/LIGM-DB (RRID:SCR_006931)

Resource Information

URL: <http://www.imgt.org/IMGTindex/LIGM.html>

Proper Citation: IMGT/LIGM-DB (RRID:SCR_006931)

Description: IMGT/LIGM-DB is a comprehensive database of immunoglobulin (IG) and T cell receptor (TR) nucleotide sequences from human and other vertebrate species (270). IMGT/LIGM-DB includes all germline (non-rearranged) and rearranged IG and TR genomic DNA (gDNA) and complementary DNA (cDNA) sequences published in generalist databases. IMGT/LIGM-DB allows searches from the Web interface according to biological and immunogenetic criteria through five distinct modules depending on the user interest. Users can search the catalogue by accession number, mnemonic, definition, creation date, length, or annotation level. They also have the option to search through taxonomic classification, keywords, and annotated labels. For a given entry, nine types of display are available including the IMGT flat file, the translation of the coding regions and the analysis by the IMGT/V-QUEST tool (see parent org. below). IMGT/LIGM-DB distributes expertly annotated sequences. The annotations hugely enhance the quality and the accuracy of the distributed detailed information. They include the sequence identification, the gene and allele classification, the constitutive and specific motif description, the codon and amino acid numbering, and the sequence obtaining information, according to the main concepts of IMGT-ONTOLOGY. They represent the main source of IG and TR gene and allele knowledge stored in IMGT/GENE-DB and in the IMGT reference directory., THIS RESOURCE IS NO LONGER IN SERVICE. Documented on September 16,2025.

Abbreviations: IMGT LIGM, IMGT/LIGM

Synonyms: IMGT LIGM, IMGT/LIGM, ImMunoGeneTics/Laboratoire d'ImmunoGenetique Moleculaire-Database

Resource Type: data or information resource, database

Defining Citation: [PMID:16381979](#)

Keywords: nucleotide sequence, gold standard or authority, bio.tools

Availability: THIS RESOURCE IS NO LONGER IN SERVICE

Resource Name: IMGT/LIGM-DB

Resource ID: SCR_006931

Alternate IDs: biotools:IMGT_LIGM-Db, nif-0000-03015, r3d100012534

Alternate URLs: https://bio.tools/IMGT_LIGM-DB, <https://doi.org/10.17616/R3VV2X>

Old URLs: <http://imgt.cines.fr>, <http://imgt.cines.fr/cgi-bin/IMGTlect.jv>

Record Creation Time: 20220129T080238+0000

Record Last Update: 20260821T193805+0000

Ratings and Alerts

No rating or validation information has been found for IMGT/LIGM-DB.

No alerts have been found for IMGT/LIGM-DB.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 16 mentions in open access literature.

Listed below are recent publications. The full list is available at [dkNET](#) .

Hie BL, et al. (2024) Efficient evolution of human antibodies from general protein language models. Nature biotechnology, 42(2), 275.

Debbagh C, et al. (2024) Deciphering Gorilla gorilla gorilla immunoglobulin loci in multiple genome assemblies and enrichment of IMGT resources. Frontiers in immunology, 15, 1475003.

Wang LT, et al. (2022) The light chain of the L9 antibody is critical for binding circumsporozoite protein minor repeats and preventing malaria. Cell reports, 38(7), 110367.

Zhang Y, et al. (2021) RAPID: A Rep-Seq Dataset Analysis Platform With an Integrated Antibody Database. Frontiers in immunology, 12, 717496.

Linguiti G, et al. (2021) The T Cell Receptor (TRB) Locus in Tursiops truncatus: From Sequence to Structure of the Alpha/Beta Heterodimer in the Human/Dolphin Comparison. Genes, 12(4).

Ertuna YI, et al. (2021) Vectored antibody gene delivery restores host B and T cell control of persistent viral infection. *Cell reports*, 37(9), 110061.

Medina A, et al. (2020) Molecular profiling of immunoglobulin heavy-chain gene rearrangements unveils new potential prognostic markers for multiple myeloma patients. *Blood cancer journal*, 10(2), 14.

Hashimoto A, et al. (2020) Proteogenomic analysis of granulocyte macrophage colony-stimulating factor autoantibodies in the blood of a patient with autoimmune pulmonary alveolar proteinosis. *Scientific reports*, 10(1), 4923.

Pégorier P, et al. (2020) IMGT® Biocuration and Comparative Study of the T Cell Receptor Beta Locus of Veterinary Species Based on Homo sapiens TRB. *Frontiers in immunology*, 11, 821.

Montagne JM, et al. (2020) Ultra-efficient sequencing of T Cell receptor repertoires reveals shared responses in muscle from patients with Myositis. *EBioMedicine*, 59, 102972.

Fallet B, et al. (2020) Chronic Viral Infection Promotes Efficient Germinal Center B Cell Responses. *Cell reports*, 30(4), 1013.

Pégorier P, et al. (2020) IMGT® Biocuration and Comparative Analysis of Bos taurus and Ovis aries TRA/TRD Loci. *Genes*, 12(1).

Radtanakatikanon A, et al. (2020) Topology and expressed repertoire of the Felis catus T cell receptor loci. *BMC genomics*, 21(1), 20.

Shi B, et al. (2020) The Usage of Human IGHJ Genes Follows a Particular Non-random Selection: The Recombination Signal Sequence May Affect the Usage of Human IGHJ Genes. *Frontiers in genetics*, 11, 524413.

Wang LT, et al. (2020) A Potent Anti-Malarial Human Monoclonal Antibody Targets Circumsporozoite Protein Minor Repeats and Neutralizes Sporozoites in the Liver. *Immunity*, 53(4), 733.

Lee M, et al. (2019) Preferential Infiltration of Unique V α 9J α 2-V β 2 T Cells Into Glioblastoma Multiforme. *Frontiers in immunology*, 10, 555.