VBASE2
RRID:SCR_007082
Type: Tool

Proper Citation

VBASE2 (RRID:SCR_007082)

Resource Information

URL: http://www.vbase2.org/

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Description: Integrative database of germ-line V genes from the immunoglobulin loci of human and mouse. It presents V gene sequences extracted from the EMBL nucleotide sequence database and Ensembl together with links to the respective source sequences. Based on the properties of the source sequences, V genes are classified into 3 different classes: * Class 1: genomic and rearranged evidence * Class 2: genomic evidence only * Class 3: rearranged evidence only This allows careful sequence quality validation by the user. References to other immunological databases (KABAT, IMGT/LIGM and VBASE) are given to provide all public annotation data for each V gene. The VBASE2 database can be accessed either by the Direct Query interface or by the DNAPLOT Query interface. The Sequences given by the user are aligned with DNAPLOT against the VBASE2 database. Direct Query allows to enter sequence IDs and names (Field 1), choose species, locus, V gene family and class (Field 2) or search for 100% sequences (Field 3). At the DNAPLOT Query, the sequences given by the user are aligned with DNAPLOT against the VBASE2 database. The DNAPLOT program offers V gene nucleotide sequence alignment referring to the IMGT V gene unique numbering. The Quick Search can be used either for Direct Query to search for sequence IDs and V gene names or for DNAPLOT Query for up to 5 sequences. The new Fab Analysis allows you to align Fab, scFab, scAb or scFv sequences with DNAPLOT against the VBASE2 database, where both heavy and light chain are analyzed.

Abbreviations: VBASE2

Synonyms: VBASE2: the integrative germ-line V gene database

Resource Type: database, analysis service resource, service resource, data or information
resource, production service resource, data analysis service

**Defining Citation:** PMID:15608286

**Keywords:** v gene sequence, v gene, gene, dna, sequence, bio.tools, FASEB list

**Funding Agency:** BMBF

**Availability:** Acknowledgement requested

**Resource Name:** VBASE2

**Resource ID:** SCR_007082

**Alternate IDs:** nlx_25238, biotools:germ-line_v_genes

**Alternate URLs:** https://bio.tools/germ-line_v_genes

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**Ratings and Alerts**

No rating or validation information has been found for VBASE2.

No alerts have been found for VBASE2.

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**Data and Source Information**

**Source:** SciCrunch Registry

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**Usage and Citation Metrics**

We found 65 mentions in open access literature.

**Listed below are recent publications.** The full list is available at RRID.

Langreder N, et al. (2023) Development of an inhibiting antibody against equine interleukin 5 to treat insect bite hypersensitivity of horses. Scientific reports, 13(1), 4029.


Cavazzoni CB, et al. (2022) Follicular T cells optimize the germinal center response to SARS-CoV-2 protein vaccination in mice. Cell reports, 38(8), 110399.

Bertoglio F, et al. (2021) A SARS-CoV-2 neutralizing antibody selected from COVID-19 patients binds to the ACE2-RBD interface and is tolerant to most known RBD mutations. Cell reports, 36(4), 109433.


