

# LymphoSeqDB

August 20, 2025

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prevalenceTRB

*Prevalence of T cell receptor beta CDR3 amino acid sequences*

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## Description

A database of unique productive T cell receptor beta CDR3 amino acid sequences from the peripheral blood of 55 healthy individuals, age range 0-90 years.

## Usage

prevalenceTRB

## Format

A dataframe with 11,724,292 rows and 2 columns. The first column corresponds to T cell receptor beta CDR3 amino acid sequences. The second column corresponds to the % frequency that the sequence appeared within the peripheral blood of 55 healthy individuals.

## Source

Sequencing from 39 individuals, age ranging from 0-90 years, was obtained from Britanova, O. V. et al. The Journal of Immunology 2014; 192: 2689-2698 (<http://mitcr.milaboratory.com/datasets/aging2013/>). Sequencing for the the remaining 16 individuals, age range from 17-67 years, was obtained from "Origin and evolution of the T-cell repertoire after posttransplantation cyclophosphamide" (<https://clients.adaptivebiotech.com/publishedProjects>).

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|--------------|------------------------------------------------------------------------------------------------|
| publishedTRB | <i>Published T cell receptor beta CDR3 amino acid sequences with known antigen specificity</i> |
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**Description**

A database of unique productive T cell receptor beta CDR3 amino acid sequences with known antigen specificity.

**Usage**

publishedTRB

**Format**

A dataframe with 3,706 rows and 6 columns corresponding amino acid sequence, PubMed ID (PMID), HLA type, antigen specificity, epitope, and % prevalence that the sequence appeared within the peripheral blood of 55 healthy individuals.

**Source**

Citation for each sequence is provided as a PubMed ID (PMID) within the database. Steve House and Will DeWitt from Adaptive Biotechnologies helped to curate the list of published sequences.

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