

Resource Summary Report

Generated by [RRID](#) on Aug 5, 2026

TRUST4

RRID:SCR_026162

Type: Tool

Proper Citation

TRUST4 (RRID:SCR_026162)

Resource Information

URL: <https://github.com/liulab-dfci/TRUST4>

Proper Citation: TRUST4 (RRID:SCR_026162)

Description: Software tool to analyze TCR and BCR sequences using unselected RNA sequencing data, profiled from fluid and solid tissues, including tumors. Performs de novo assembly on V, J, C genes including the hypervariable complementarity-determining region 3 and reports consensus contigs of BCR/TCR sequences. TRUST4 then realigns the contigs to IMGT reference gene sequences to identify the corresponding gene and CDR3 details. TRUST4 supports both single-end and paired-end bulk or single-cell sequencing data with any read length.

Resource Type: data processing software, source code, data analysis software, software resource, sequence analysis software, software application

Defining Citation: [PMID:33986545](#)

Keywords: analyze TCR and BCR sequences, de novo assembly, unselected RNA sequencing data, fluid and solid tissues, tumors,

Funding: NCI U01CA226196;
NCI U24CA224316

Availability: Free, Available for download, Freely available

Resource Name: TRUST4

Resource ID: SCR_026162

License: MIT license

Record Creation Time: 20241210T053256+0000

Record Last Update: 20260805T044555+0000

Ratings and Alerts

No rating or validation information has been found for TRUST4.

No alerts have been found for TRUST4.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 4 mentions in open access literature.

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

Lim SH, et al. (2025) Determinants of Response to Sequential Pembrolizumab with Trastuzumab plus Platinum/5-FU in HER2-Positive Gastric Cancer: A Phase II Chemoimmunotherapy Trial. Clinical cancer research : an official journal of the American Association for Cancer Research, 31(8), 1476.

Zhang L, et al. (2025) KLRG1 re-defines a leukemic clone of CD8 effector T cells sensitive to PI3K inhibitor in T??cell large granular lymphocytic leukemia. Cell reports. Medicine, 6(4), 102036.

Xie H, et al. (2025) Lymphotoxin-driven cancer cell eradication by tumoricidal CD8+ TIL. bioRxiv : the preprint server for biology.

Song Z, et al. (2025) Mega-scale single-cell profiling reveals novel biomarkers associated with acute GvHD after allogeneic hematopoietic stem cell transplantation. Biomarker research, 13(1), 155.