

Resource Summary Report

Generated by [Kravitz](#) on Sep 16, 2026

Retroviral Tagged Cancer Gene Database

RRID:SCR_007908

Type: Tool

Proper Citation

Retroviral Tagged Cancer Gene Database (RRID:SCR_007908)

Resource Information

URL: <http://variation.osu.edu/rtcgd/>

Proper Citation: Retroviral Tagged Cancer Gene Database (RRID:SCR_007908)

Description: THIS RESOURCE IS NO LONGER IN SERVICE. Documented on May 12, 2023. Database of high throughput insertional mutagenesis screening projects of retroviral and transposon insertional mutagenesis in mouse tumors. Information in the RTCGD is obtained from sequence comparison by using public databases UCSC genome mm9 browser. Data based on previous genome assembly mm8 is also available at RTCGD mm8. MCGP has developed three web search tools including Easy Search to query proviral integration sites using mouse gene symbol or gene name; Model Search to obtain RIS information based on tumor models and/or tumor types; Interaction Search to find gene-to-gene interaction. It displays the list of genes which reside in the same tumor to your gene of interest.

Abbreviations: RTCGD

Synonyms: RTCGD - Retroviral Tagged Cancer Gene Database

Resource Type: data or information resource, database

Keywords: insertional mutagenesis screening, retroviral and transposon insertional mutagenesis, mouse tumors,

Availability: THIS RESOURCE IS NO LONGER IN SERVICE

Resource Name: Retroviral Tagged Cancer Gene Database

Resource ID: SCR_007908

Alternate IDs: nif-0000-03429, SCR_008568, nif-0000-31455

Old URLs: <http://rtcgd.ncifcrf.gov/>

Record Creation Time: 20220129T080244+0000

Record Last Update: 20260912T195658+0000

Ratings and Alerts

No rating or validation information has been found for Retroviral Tagged Cancer Gene Database.

No alerts have been found for Retroviral Tagged Cancer Gene Database.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 11 mentions in open access literature.

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

Weishaupt H, et al. (2023) Novel cancer gene discovery using a forward genetic screen in RCAS-PDGFB-driven gliomas. *Neuro-oncology*, 25(1), 97.

Ikink GJ, et al. (2018) Insertional mutagenesis in a HER2-positive breast cancer model reveals ERAS as a driver of cancer and therapy resistance. *Oncogene*, 37(12), 1594.

Tsuruyama T, et al. (2017) Hotspots of MLV integration in the hematopoietic tumor genome. *Oncogene*, 36(9), 1169.

Stahlhut M, et al. (2015) Lentiviral vector system for coordinated constitutive and drug controlled tetracycline-regulated gene co-expression. *Biomaterials*, 63, 189.

Wang QF, et al. (2014) Regulation of MEIS1 by distal enhancer elements in acute leukemia. *Leukemia*, 28(1), 138.

McGrail M, et al. (2011) Somatic mutagenesis with a Sleeping Beauty transposon system leads to solid tumor formation in zebrafish. *PloS one*, 6(4), e18826.

Sadat MA, et al. (2009) Retroviral vector integration in post-transplant hematopoiesis in mice conditioned with either submyeloablative or ablative irradiation. *Gene therapy*, 16(12), 1452.

Malik A, et al. (2007) Databases and QSAR for cancer research. *Cancer informatics*, 2, 99.

O'Neil J, et al. (2007) Alu elements mediate MYB gene tandem duplication in human T-ALL. *The Journal of experimental medicine*, 204(13), 3059.

Hilkens J, et al. (2006) Recent translational research: oncogene discovery by insertional mutagenesis gets a new boost. Breast cancer research : BCR, 8(1), 102.

Galperin MY, et al. (2005) The Molecular Biology Database Collection: 2005 update. Nucleic acids research, 33(Database issue), D5.