

Resource Summary Report

Generated by [kravitz2](#) on Jul 31, 2026

UniTrap

RRID:SCR_007046

Type: Tool

Proper Citation

UniTrap (RRID:SCR_007046)

Resource Information

URL: <http://unitrap.cbm.fvg.it/>

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Description: A curated collection of all the trapped ES cell clones. Gene-trapping is a valuable tool that uses random mutagenesis to create hypomorphic or null alleles by insertion of exogenous DNA. Since numerous public and private projects have been performing gene trapping over the last few years, it is natural that large overlaps exist and some vectors produce better knock-outs than others due to their insertion site. Considering the high need to develop a comprehensive database that would include both public and private data to provide public access to this essential biological resource, we developed UniTrap, a curated collection of all the trapped ES cell clones, collected from public and private databases. We have developed a bioinformatics pipeline to automate the identification and characterization of trapped genes starting from their transcriptional sequence tags. We process gene trap sequence tags from ES cell clones to generate 'UniTraps', i.e. distinct collections of unambiguous insertions at the same subgenic region of annotated genes (RefSeq and Ensembl genes). The UniTrap resource contains data relative to well-known trapped genes. We aim to provide the wet lab researchers with a comprehensive, regularly updated database and curated tools for (i) identifying and comparing the clones carrying a trap into the genes of interest, (ii) evaluating the severity of the mutation to the protein function in each independent trapping event, and (iii) supplying complete information to perform PCR, RT-PCR and restriction experiments to verify the clone and identify the exact point of vector insertion.

Synonyms: UniTrap

Resource Type: data or information resource, database

Keywords: es cell clones, gene-trapping, pcr, rt-pcr

Resource Name: UniTrap

Resource ID: SCR_007046

Alternate IDs: nif-0000-03615

Record Creation Time: 20220129T080239+0000

Record Last Update: 20260729T044149+0000

Ratings and Alerts

No rating or validation information has been found for UniTrap.

No alerts have been found for UniTrap.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 3 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Ligasová A, et al. (2025) The kinetics of uracil-N-glycosylase distribution inside replication foci. Scientific reports, 15(1), 3026.

Ligasová A, et al. (2021) Anchored linear oligonucleotides: the effective tool for the real-time measurement of uracil DNA glycosylase activity. Open biology, 11(10), 210136.

Friedel RH, et al. (2010) Gene trap mutagenesis in the mouse. Methods in enzymology, 477, 243.