

Resource Summary Report

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L1Base

RRID:SCR_007750

Type: Tool

Proper Citation

L1Base (RRID:SCR_007750)

Resource Information

URL: <http://line1.molgen.mpg.de>

Proper Citation: L1Base (RRID:SCR_007750)

Description: L1Base is a dedicated database containing putatively active LINE-1 (L1) insertions residing in human and rodent genomes: a) intact in the two ORFs, full length L1s (FLI-L1s) and b) L1s with intact ORF2 but disrupted ORF1 (ORF2-L1s). In addition, due to their regulatory potential, the full length (>6000bp) non-intact L1s (FLnI-L1s) were also included in the database.

Synonyms: L1Base

Resource Type: data or information resource, database

Keywords: fl-l1, flni-l1, full length l1, full length non-intact l1, l1, line, line-1, orf2-l1

Resource Name: L1Base

Resource ID: SCR_007750

Alternate IDs: nif-0000-03076

Record Creation Time: 20220129T080243+0000

Record Last Update: 20260811T043318+0000

Ratings and Alerts

No rating or validation information has been found for L1Base.

No alerts have been found for L1Base.

Data and Source Information

Usage and Citation Metrics

We found 23 mentions in open access literature.

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

Pizzagalli MD, et al. (2025) Transposable element dynamics in glioblastoma stem cells: insights from locus-specific quantification. *Mobile DNA*, 16(1), 33.

??ulc P, et al. (2025) Repeats mimic pathogen-associated patterns across a vast evolutionary landscape. *Cell genomics*, 101011.

Bonnifet T, et al. (2025) Steady-state neuron-predominant LINE-1 encoded ORF1p protein and LINE-1 RNA increase with aging in the mouse and human brain. *eLife*, 13.

Ren W, et al. (2025) A Tandem Repeat Atlas for the Genome of Inbred Mouse Strains: A Genetic Variation Resource. *bioRxiv* : the preprint server for biology.

Bravo JI, et al. (2024) Multi-ancestry GWAS reveals loci linked to human variation in LINE-1- and Alu-copy numbers. *bioRxiv* : the preprint server for biology.

Yu H, et al. (2022) Dynamic reprogramming of H3K9me3 at hominoid-specific retrotransposons during human preimplantation development. *Cell stem cell*, 29(7), 1031.

Creamer KM, et al. (2022) ZNF146/OZF and ZNF507 target LINE-1 sequences. *G3* (Bethesda, Md.), 12(3).

Lima-Junior DS, et al. (2021) Endogenous retroviruses promote homeostatic and inflammatory responses to the microbiota. *Cell*, 184(14), 3794.

Legoff L, et al. (2021) In utero exposure to chlordecone affects histone modifications and activates LINE-1 in cord blood. *Life science alliance*, 4(6).

Yang N, et al. (2021) Distinct Retrotransposon Evolution Profile in the Genome of Rabbit (*Oryctolagus cuniculus*). *Genome biology and evolution*, 13(8).

Whongsiri P, et al. (2020) Many Different LINE-1 Retroelements Are Activated in Bladder Cancer. *International journal of molecular sciences*, 21(24).

Yu H, et al. (2020) Non-canonical RNA-DNA differences and other human genomic features are enriched within very short tandem repeats. *PLoS computational biology*, 16(6), e1007968.

Chen C, et al. (2019) Retrotransposons evolution and impact on lncRNA and protein coding genes in pigs. *Mobile DNA*, 10, 19.

Pruksananonda K, et al. (2016) Epigenetic modification of long interspersed elements-1 in cumulus cells of mature and immature oocytes from patients with polycystic ovary syndrome. *Clinical and experimental reproductive medicine*, 43(2), 82.

Clayton EA, et al. (2016) Patterns of Transposable Element Expression and Insertion in Cancer. *Frontiers in molecular biosciences*, 3, 76.

Ngamphiw C, et al. (2014) Roles of intragenic and intergenic L1s in mouse and human. *PloS one*, 9(11), e113434.

Kines KJ, et al. (2014) Potential for genomic instability associated with retrotranspositionally-incompetent L1 loci. *Nucleic acids research*, 42(16), 10488.

Wanichnopparat W, et al. (2013) Genes associated with the cis-regulatory functions of intragenic LINE-1 elements. *BMC genomics*, 14, 205.

Aporntewan C, et al. (2011) Hypomethylation of intragenic LINE-1 represses transcription in cancer cells through AGO2. *PloS one*, 6(3), e17934.

Carlini F, et al. (2010) The reverse transcription inhibitor abacavir shows anticancer activity in prostate cancer cell lines. *PloS one*, 5(12), e14221.