

Resource Summary Report

Generated by [kravitz2](#) on Aug 2, 2026

SQuIRE

RRID:SCR_027719

Type: Tool

Proper Citation

SQuIRE (RRID:SCR_027719)

Resource Information

URL: <https://github.com/wyang17/SQuIRE>

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Description: Software RNA-seq analysis pipeline that provides quantitative and locus-specific picture of Transposable Elements expression.

Abbreviations: SQuIRE

Synonyms: , Software for Quantifying Interspersed Repeat Expression (SQuIRE), Software for Quantifying Interspersed Repeat Expression

Resource Type: source code, software toolkit, software resource

Defining Citation: [PMID:30624635](#)

Keywords: RNA-seq analysis, quantitative and locus-specific picture of TE expression, Transposable Elements expression,

Funding: NIGMS R01GM124531;
NIGMS P50GM107632

Availability: Free, Available for download, Freely available

Resource Name: SQuIRE

Resource ID: SCR_027719

Record Creation Time: 20251205T054815+0000

Record Last Update: 20260803T040930+0000

Ratings and Alerts

No rating or validation information has been found for SQuIRE.

No alerts have been found for SQuIRE.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 10 mentions in open access literature.

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

Gallardo A, et al. (2025) BMAL1-TRIM28 represses transposable elements independently of CLOCK in pluripotent cells. *Nature communications*, 16(1), 8250.

You E, et al. (2025) LINE-1 ORF1p Mimics Viral Innate Immune Evasion Mechanisms in Pancreatic Ductal Adenocarcinoma. *Cancer discovery*, 15(5), 1063.

Feng Y, et al. (2025) Human herpesvirus-associated transposable element activation in human aging brains with Alzheimer's disease. *Alzheimer's & dementia : the journal of the Alzheimer's Association*, 21(2), e14595.

Patel D, et al. (2025) Cancer cell type-specific derepression of transposable elements by inhibition of chromatin modifier enzymes. *Communications biology*, 8(1), 992.

Talevi V, et al. (2025) Age and Sex Effects on Blood Retrotransposable Element Expression Levels: Findings From the Population-Based Rhineland Study. *Aging cell*, 24(8), e70092.

Fang Y, et al. (2024) ATRX guards against aberrant differentiation in mesenchymal progenitor cells. *Nucleic acids research*, 52(9), 4950.

Feng Y, et al. (2024) Widespread transposable element dysregulation in human aging brains with Alzheimer's disease. *Alzheimer's & dementia : the journal of the Alzheimer's Association*, 20(11), 7495.

Eshima J, et al. (2023) Molecular subtypes of ALS are associated with differences in patient prognosis. *Nature communications*, 14(1), 95.

Fang Y, et al. (2023) ATRX guards against aberrant differentiation in mesenchymal progenitor cells. *bioRxiv : the preprint server for biology*.

Karttunen K, et al. (2023) Transposable elements as tissue-specific enhancers in cancers of endodermal lineage. *Nature communications*, 14(1), 5313.