

# Resource Summary Report

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

## [mgatk](#)

RRID:SCR\_021159

Type: Tool

### Proper Citation

mgatk (RRID:SCR\_021159)

### Resource Information

**URL:** <https://github.com/caleblareau/mgatk>

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**Description:** Software python-based command line interface for processing .bam files with mitochondrial reads and generating high-quality heteroplasmy estimation from sequencing data. This package places a special emphasis on mitochondrial genotypes generated from single-cell genomics data, primarily mtscATAC-seq, but is generally applicable across other assays.

**Synonyms:** mitochondrial genome analysis toolkit

**Resource Type:** data processing software, software application, software resource, software toolkit

**Defining Citation:** [DOI:10.1038/s41587-020-0645-6](https://doi.org/10.1038/s41587-020-0645-6)

**Keywords:** processing .bam files, mitochondrial reads, heteroplasmy estimation, sequencing data, mitochondrial genotypes, mtscATAC-seq

**Funding:** NCI F31 CA232670;  
NCI R01 CA208756;  
NCI P01 CA206978;  
NCI U10 CA180861;  
NIDDK R01 DK103794;  
NHLBI R33 HL120791

**Availability:** Free, Available for download, Freely available

**Resource Name:** mgatk

**Resource ID:** SCR\_021159

**License:** MIT License

**Record Creation Time:** 20220129T080354+0000

**Record Last Update:** 20260805T044444+0000

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## Ratings and Alerts

No rating or validation information has been found for mgatk.

No alerts have been found for mgatk.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 2 mentions in open access literature.

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

Liu V, et al. (2025) Clonal lineage tracing of innate immune cells in human cancer. bioRxiv : the preprint server for biology.

Penter L, et al. (2021) Longitudinal Single-Cell Dynamics of Chromatin Accessibility and Mitochondrial Mutations in Chronic Lymphocytic Leukemia Mirror Disease History. Cancer discovery, 11(12), 3048.