

# Resource Summary Report

Generated by RRID on Aug 2, 2026

## SomaticIndelDetector

RRID:SCR\_005107

Type: Tool

### Proper Citation

SomaticIndelDetector (RRID:SCR\_005107)

### Resource Information

**URL:**

[http://www.broadinstitute.org/gatk/gatkdocs/org\\_broadinstitute\\_sting\\_gatk\\_walkers\\_indels\\_SomaticIndelDetector.html](http://www.broadinstitute.org/gatk/gatkdocs/org_broadinstitute_sting_gatk_walkers_indels_SomaticIndelDetector.html)

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**Description:** Tool for calling indels in Tumor-Normal paired sample mode.

**Abbreviations:** SomaticIndelDetector

**Resource Type:** software resource

**Keywords:** cancer-specific variant discovery tool, variant, tumor, normal, bam, indel

**Related Condition:** Cancer, Tumor, Normal

**Resource Name:** SomaticIndelDetector

**Resource ID:** SCR\_005107

**Alternate IDs:** OMICS\_00091

**Record Creation Time:** 20220129T080228+0000

**Record Last Update:** 20260801T190255+0000

### Ratings and Alerts

No rating or validation information has been found for SomaticIndelDetector.

No alerts have been found for SomaticIndelDetector.

### Data and Source Information

## Usage and Citation Metrics

We found 81 mentions in open access literature.

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

Sait SF, et al. (2025) Hydroxychloroquine prevents resistance and potentiates the antitumor effect of SHP2 inhibition in NF1-associated malignant peripheral nerve sheath tumors. *Proceedings of the National Academy of Sciences of the United States of America*, 122(1), e2407745121.

Wu M, et al. (2025) Genomic copy-number variants drive apoptotic evasion underlying acquired resistance to immune checkpoint inhibitors. *Immunity*, 58(11), 2864.

Karasozen Y, et al. (2025) Low-Allele-Frequency Somatic Variants in a Cohort of Sporadic Saccular "Berry" Cerebral Aneurysms. *Journal of the American Heart Association*, 14(18), e032483.

Hickman RA, et al. (2024) Real-world experience with circulating tumor DNA in cerebrospinal fluid from patients with central nervous system tumors. *Acta neuropathologica communications*, 12(1), 151.

Winter PS, et al. (2024) Mutation and cell state compatibility is required and targetable in Ph+ acute lymphoblastic leukemia minimal residual disease. *bioRxiv : the preprint server for biology*.

Kumar A, et al. (2024) Molecular Analysis of Persistent and Recurrent Barrett's Esophagus in the Setting of Endoscopic Therapy. *Clinical and translational gastroenterology*, 15(8), e00751.

Larkin J, et al. (2024) Nilotinib in KIT-driven advanced melanoma: Results from the phase II single-arm NICAM trial. *Cell reports. Medicine*, 5(3), 101435.

Hall MS, et al. (2023) Neoantigen-specific CD4+ tumor-infiltrating lymphocytes are potent effectors identified within adoptive cell therapy products for metastatic melanoma patients. *Journal for immunotherapy of cancer*, 11(10).

Ishino T, et al. (2023) Somatic mutations can induce a noninflamed tumour microenvironment via their original gene functions, despite deriving neoantigens. *British journal of cancer*, 128(6), 1166.

Stevens LE, et al. (2023) JAK-STAT Signaling in Inflammatory Breast Cancer Enables Chemotherapy-Resistant Cell States. *Cancer research*, 83(2), 264.

Akarca FG, et al. (2023) Does radiofrequency ablation of the lower oesophagus allow for clonal expansion of highly mutated neosquamous epithelium? *BMJ oncology*, 2(1), e000089.

Kennedy AL, et al. (2021) Distinct genetic pathways define pre-malignant versus compensatory clonal hematopoiesis in Shwachman-Diamond syndrome. *Nature communications*, 12(1), 1334.

de Klerk LK, et al. (2021) Molecular profiles of response to neoadjuvant chemoradiotherapy in oesophageal cancers to develop personalized treatment strategies. *Molecular oncology*, 15(4), 901.

Nakamura IT, et al. (2021) Development of an optimal protocol for molecular profiling of tumor cells in pleural effusions at single-cell level. *Cancer science*, 112(5), 2006.

Zhuang Y, et al. (2021) Establishment and characterization of immortalized human breast cancer cell lines from breast cancer patient-derived xenografts (PDX). *NPJ breast cancer*, 7(1), 79.

Nagano M, et al. (2021) Comprehensive molecular profiling of pulmonary pleomorphic carcinoma. *NPJ precision oncology*, 5(1), 57.

Liu J, et al. (2021) A high-risk retinoblastoma subtype with stemness features, dedifferentiated cone states and neuronal/ganglion cell gene expression. *Nature communications*, 12(1), 5578.

Garcia EG, et al. (2021) PRL3 enhances T-cell acute lymphoblastic leukemia growth through suppressing T-cell signaling pathways and apoptosis. *Leukemia*, 35(3), 679.

Starrett GJ, et al. (2020) Clinical and molecular characterization of virus-positive and virus-negative Merkel cell carcinoma. *Genome medicine*, 12(1), 30.

Tanaka N, et al. (2020) Sequencing artifacts derived from a library preparation method using enzymatic fragmentation. *PloS one*, 15(1), e0227427.