Resource Summary Report

Generated by PRECISE-TBI on Aug 5, 2026

Primer3

RRID:SCR_003139
Type: Tool

Proper Citation

Primer3 (RRID:SCR_003139)

Resource Information

URL: http://primer3.ut.ee

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Description: Tool used to design PCR primers from DNA sequence - often in high-throughput genomics applications. It does everything from mispriming libraries to sequence quality data to the generation of internal oligos.

Abbreviations: Primer3

Synonyms: Primer3web - Pick primers from a DNA sequence, Primer3 - PCR primer design tool, Primer3web

Resource Type: data analysis service, analysis service resource, software resource, production service resource, service resource

Defining Citation: PMID:22730293, PMID:17379693, DOI:10.1385/1-59259-192-2:365, DOI:10.1385/1-59259-192-2:365

Keywords: primer, primer design, polymerase chain reaction, pcr primer, dna sequence, c, perl, bio.tools

Funding: NHGRI R01-HG00257;
NHGRI P50-HG00098

Availability: Free, Freely available

Resource Name: Primer3

Resource ID: SCR_003139

Alternate IDs: nlx_156833, OMICS_02325, biotools:primer3

Alternate URLs: http://bioinfo.ut.ee/primer3-0.4.0/, http://sourceforge.net/projects/primer3/, http://frodo.wi.mit.edu/primer3, https://bio.tools/primer3, https://sources.debian.org/src/primer3/, https://sources.debian.org/src/primer3/

Record Creation Time: 20220129T080217+0000

Record Last Update: 20260805T044049+0000

Ratings and Alerts

No rating or validation information has been found for Primer3.

No alerts have been found for Primer3.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 10957 mentions in open access literature.

Listed below are recent publications. The full list is available at PRECISE-TBI .

Florean M, et al. (2026) A pseudoenzyme enables indole biosynthesis in eudicot plants. Nature chemical biology, 22(1), 120.

Zhang B, et al. (2026) Development of a High-Resolution MNP Marker System for Aquatic Biodiversity Monitoring: A Case Study With Schizothorax prenanti in the Yangtze River. Molecular ecology resources, 26(1), e70063.

Horsley N, et al. (2026) CrisprBuildr: an open-source application for CRISPR-mediated genome engineering in Drosophila melanogaster. G3 (Bethesda, Md.), 16(1).

Winkler PA, et al. (2026) Mapping the locus for ocular melanosis in Cairn Terriers. Veterinary ophthalmology, 29(1), e13291.

Jiao P, et al. (2026) Maternal undernutrition inhibits fetal rumen development: novel miRNA-736-mediated dual targeting of E2F2 and MYBL2 in sheep. Journal of animal science and biotechnology, 17(1), 2.

Li Z, et al. (2025) The role of CDK8 gene polymorphisms in bladder cancer susceptibility and prognosis: a study in the Chinese Han population. BMC cancer, 25(1), 714.

Vaidya SP, et al. (2025) Inhibition of HCN channels decreases motivation for alcohol and deprivation-induced drinking in alcohol preferring rats. Neuropharmacology, 270, 110371.

Jiménez-Guerrero R, et al. (2025) ?-TrCP overexpression enhances cisplatin sensitivity by depleting BRCA1. Molecular oncology.

Kahlhofer J, et al. (2025) TXNIP mediates LAT1/SLC7A5 endocytosis to limit amino acid uptake in cells entering quiescence. The EMBO journal, 44(23), 7119.

Grätz C, et al. (2025) Extracellular vesicle-associated transcriptomic and proteomic biomarkers show in vitro potential for vandetanib treatment monitoring in anaplastic thyroid cancer. Scientific reports, 15(1), 32464.

Lyon LM, et al. (2025) Genome-wide mutagenesis identifies factors involved in MRSA vaginal colonization. Cell reports, 44(3), 115421.

Hennion N, et al. (2025) Identification of early genes in the pathophysiology of fibrotic interstitial lung disease in a new model of pulmonary fibrosis. Cellular and molecular life sciences : CMLS, 82(1), 115.

Cluzet V, et al. (2025) Pharmacologic Inhibition of SIRT1 Limits the Growth of Tumoral and Metastatic Granulosa Cells by Affecting mTOR, Myc, and E2F Pathways. Molecular cancer therapeutics, 24(8), 1197.

Gharbi W, et al. (2025) Functional genetic variants in immune-checkpoint molecules and susceptibility to Nasopharyngeal carcinoma in a Tunisian case-control study. Molecular biology reports, 53(1), 230.

López-Cánovas JL, et al. (2025) Fasting in combination with the cocktail Sorafenib:Metformin blunts cellular plasticity and promotes liver cancer cell death via poly-metabolic exhaustion. Cellular oncology (Dordrecht, Netherlands), 48(1), 161.

Welter H, et al. (2025) Dexamethasone is a regulator of clock genes in testicular peritubular cells. Andrology, 13(7), 1970.

Lee HJ, et al. (2025) A comprehensive transcriptional profiling of developing gonads reveals the role of TGF? signaling in female gonadal asymmetry in chickens. Poultry science, 104(4), 104932.

Kappala D, et al. (2025) Resiquimod induces a mixed Th1 and Th2 response via STAT1 and STAT3 signalling in chickens. Biochemistry and biophysics reports, 41, 101941.

Manzano C, et al. (2025) Regulation and function of a polarly localized lignin barrier in the exodermis. Nature plants, 11(1), 118.

Ishorst N, et al. (2025) Role of ZFHX4 in orofacial clefting based on human genetic data and zebrafish models. European journal of human genetics : EJHG, 33(5), 595.