

Resource Summary Report

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Primer3

RRID:SCR_003139

Type: Tool

Proper Citation

Primer3 (RRID:SCR_003139)

Resource Information

URL: <http://primer3.ut.ee>

Proper Citation: Primer3 (RRID:SCR_003139)

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 [RRID](#) .

Florea 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.

Ranard KM, et al. (2025) Creation of a novel zebrafish model with low DHA status to study the role of maternal nutrition during neurodevelopment. *Journal of lipid research*, 66(1), 100716.

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

Przybył B, et al. (2025) QRFP43 modulates the activity of the hypothalamic-pituitary-thyroid axis in female sheep. *Scientific reports*, 15(1), 1085.

Opmeer Y, et al. (2025) Polymyositis in Kooiker dogs is associated with a 39 kb deletion upstream of the canine IL21/IL2 locus. *PLoS genetics*, 21(1), e1011538.

Sharifi A, et al. (2025) Deciphering the Role of Calcium Signaling Pathway-Associated Single Nucleotide Variants in Susceptibility to Hypertension. *Journal of clinical laboratory analysis*, 39(3), e25141.