

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>

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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: analysis service resource, data analysis service, production service resource, service resource, software 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: 20260821T193701+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 11934 mentions in open access literature.

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

Rosado J, et al. (2026) Understanding Plasmodium vivax recurrent infections using an amplicon deep sequencing assay, identity-by-descent and model-based classification. iScience, 29(5), 115799.

Tao Y, et al. (2026) TENT5A Maintains MYC mRNA Stability to Enhance Osteosarcoma Stemness. Cancer research, 86(9), 2161.

Withatanung P, et al. (2026) Phage-based diagnostic assay for melioidosis using multiplex PCR targeting Burkholderia phage terminase genes. iScience, 29(3), 114831.

Jeon H, et al. (2026) PGR-mediated transcriptome identifies SOX9 as a critical regulator of progesterone production in human ovulatory follicles. iScience, 29(6), 116044.

Liu X, et al. (2026) Prenatal bisphenol A exposure reprograms SF1-lactylation pathways to promote endometriosis susceptibility. iScience, 29(5), 115608.

Pedrolli F, et al. (2026) Growth hormone-releasing hormone attenuates amyloid deposition and neuroinflammation in Alzheimer's disease models. Cell death & disease, 17(1).

Vaidya SP, et al. (2026) Chronic alcohol consumption and abstinence disrupt cholinergic gene expression in the mesopontine tegmentum of alcohol-preferring iP rats. Neuroscience letters, 875, 138539.

Michetti E, et al. (2026) Cobalt mitigates zinc-starvation effects in Pseudomonas aeruginosa. Biometals : an international journal on the role of metal ions in biology,

biochemistry, and medicine, 39(2), 587.

Broad S, et al. (2026) Molecular characterisation of human penile carcinoma and generation of paired epithelial primary cell lines. *Molecular oncology*, 20(2), 260.

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.

Rosendal E, et al. (2026) Rapid drug resistance prediction in positive *Mycobacterium tuberculosis* clinical samples using an extensive targeted next-generation sequencing panel. *Emerging microbes & infections*, 15(1), 2627072.

Xu S, et al. (2026) Trio-sequencing Reveals High Germline Mutation Rates in the Colorado Potato Beetle (*Leptinotarsa decemlineata*). *Genome biology and evolution*, 18(2).

Chung HK, et al. (2026) Atlas-guided discovery of transcription factors for T cell programming. *Nature*, 651(8107), 1077.

Fan Z, et al. (2026) Genome-wide identification and expression profiling of the CoVQ gene family in *Camellia Oleifera*. *BMC plant biology*, 26(1).

Sasidharan V, et al. (2026) Extracellular vesicles mediate stem cell signaling and systemic RNAi in planarians. *Science advances*, 12(6), eady1461.

Saini K, et al. (2026) Morphological, biochemical, and SSR molecular insights of jamun (*Syzygium cumini* Skeels). *Scientific reports*, 16(1).

Estrela GR, et al. (2026) Antagonism of Kinin Receptors B1 and B2 Attenuates Folic Acid-Induced Tubulointerstitial Fibrosis in Mice. *Basic & clinical pharmacology & toxicology*, 138(2), e70189.

Sako Y, et al. (2026) Novel LHX8 variants associated with distinctive oocyte morphological abnormalities and maturation arrest in primary infertility. *Journal of ovarian research*, 19(1), 61.

Alimoradi E, et al. (2026) Identification of a Novel Missense Homozygous Variant in LINS1 in Two Distinct Iranian Families With Consanguineous Marriage. *Molecular genetics & genomic medicine*, 14(2), e70184.

Patel J, et al. (2026) The magnitude and durability of neutralizing antibody responses to human papillomavirus vaccine do not depend on DNA sensing pathways. *Journal of virology*, 100(3), e0215025.