

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: 20260905T132458+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 [PRECISE-TBI](#) .

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.

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

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

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.

Szozskiewicz A, et al. (2026) Fibrodysplasia ossificans progressiva: genetic and clinical characterization in a cohort of Polish patients and review of potential therapies. Journal of

applied genetics, 67(1), 193.

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

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

Purayil GP, et al. (2026) Time-resolved transcriptome analysis reveals molecular signatures of *Fusarium proliferatum* DSM106835-induced sudden decline syndrome in date palm (*Phoenix dactylifera* L.). *Journal of experimental botany*, 77(6), 1676.

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.

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.

Di Giorgio C, et al. (2026) The Farnesoid X receptor-bile acid axis contributes to immune evasion in gastric cancer and its inhibition enhances efficacy of anti-PD-L1 therapy. *Biochemistry and biophysics reports*, 46, 102653.

Sun H, et al. (2026) Eight-year follow-up of phenotypic progression in a Chinese XLRP pedigree with a novel RP2 gene mutation. *Frontiers in genetics*, 17, 1783270.

Alena S, et al. (2026) Selected ARHGEF3 Gene Polymorphisms Associated With Platelet Hyperaggregability in Patients With Venous Thromboembolism. *Clinical and applied thrombosis/hemostasis : official journal of the International Academy of Clinical and Applied Thrombosis/Hemostasis*, 32, 10760296261452854.

Kasap BK, et al. (2026) Genetic and immunological determinants of Pemphigus vulgaris: integrative analysis of HLA-DRB1 and FCGR2B variants. *Immunogenetics*, 78(1).

Kang TH, et al. (2026) Dynamic cellular heterogeneity revealed through a time-resolved single-cell atlas: assessment of porcine intestinal organoids as an in vitro model for deoxynivalenol and zearalenone. *Journal of animal science and biotechnology*, 17(1).

Bozzini N, et al. (2026) Sphingosine-1-Phosphate Promotes FOS Activation in Osteosarcoma Under Tumor Acidosis. *Acta physiologica (Oxford, England)*, 242(6), e70214.

Zhang C, et al. (2026) Case Report: Integrating clinical presentation and genetic analysis in P450 oxidoreductase deficiency: a novel mutation and systematic review. *Frontiers in endocrinology*, 17, 1791297.