Resource Summary Report

Generated by NIF on May 20, 2025

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: service resource, production service resource, data analysis service, analysis 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: Acknowledgement requested, GNU General Public License, v2 or later

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: 20250519T203234+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 10403 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF.

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.

Yntema T, et al. (2025) The impact of a humanized bile acid composition on atherosclerosis development in hypercholesterolaemic Cyp2c70 knockout mice. Scientific reports, 15(1), 2100.

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

Acford-Palmer H, et al. (2025) Application of a targeted amplicon sequencing panel to screen for insecticide resistance mutations in Anopheles darlingi populations from Brazil. Scientific reports, 15(1), 731.

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

Al-Hamed MH, et al. (2025) Genetics of Primary Adrenal Insufficiency Beyond CAH in Saudi

Arabian Population. Molecular genetics & genomic medicine, 13(1), e70052.

Geem KR, et al. (2025) Role of Carrot (Daucus carota L.) Storage Roots in Drought Stress Adaptation: Hormonal Regulation and Metabolite Accumulation. Metabolites, 15(1).

Lin TP, et al. (2025) Prostate cancer cells elevate glycolysis and G6PD in response to caffeic acid phenethyl ester-induced growth inhibition. BMC cancer, 25(1), 95.

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.

Low SJ, et al. (2025) PathoGD: an integrative genomics approach to primer and guide RNA design for CRISPR-based diagnostics. Communications biology, 8(1), 147.

Jiang N, et al. (2025) CLEC11A-Driven Molecular Mechanisms in Intervertebral Disc Degeneration: A Comprehensive Multi-Omics Study. Journal of inflammation research, 18, 1353.

Bhattacharya S, et al. (2025) Flagellar rotation facilitates the transfer of a bacterial conjugative plasmid. The EMBO journal, 44(2), 587.

Dobhal S, et al. (2025) Development and validation of genome-informed and multigene-based qPCR and LAMP assays for accurate detection of Dickeya solani: a critical quarantine pathogen threatening the potato industry. Microbiology spectrum, 13(1), e0078424.

Smith CS, et al. (2025) Identification and epidemiological analysis of a putative novel hantavirus in Australian flying foxes. Virus genes, 61(1), 71.

Landi L, et al. (2025) Validation of Monilinia fructicola Putative Effector Genes in Different Host Peach (Prunus persica) Cultivars and Defense Response Investigation. Journal of fungi (Basel, Switzerland), 11(1).

Carré A, et al. (2025) Interferon-? promotes HLA-B-restricted presentation of conventional and alternative antigens in human pancreatic ?-cells. Nature communications, 16(1), 765.

Straube J, et al. (2025) Naturally russeted and wound russeted skins of mango (cv. 'Apple') show no differences in anatomy, chemical composition or gene expression. Scientific reports, 15(1), 2366.

Gerhards K, et al. (2025) Screening for transcriptomic associations with Swine Inflammation and Necrosis Syndrome. BMC veterinary research, 21(1), 26.

Song Z, et al. (2025) Molecular and Proteomic Analyses of Effects of Cadmium Exposure on the Silk Glands of Trichonephila clavata. International journal of molecular sciences, 26(2).

Vea IM, et al. (2025) The B Chromosome of Pseudococcus viburni: A Selfish Chromosome that Exploits Whole-Genome Meiotic Drive. Genome biology and evolution, 17(1).