Resource Summary Report

Generated by FDI Lab - SciCrunch.org on May 20, 2025

Primer-BLAST

RRID:SCR_003095
Type: Tool

Proper Citation

Primer-BLAST (RRID:SCR_003095)

Resource Information

URL: http://www.ncbi.nlm.nih.gov/tools/primer-blast/

Proper Citation: Primer-BLAST (RRID:SCR_003095)

Description: A tool to design target-specific primers for polymerase chain reaction (PCR). It uses Primer3 to design PCR primers and then uses BLAST and global alignment algorithm to screen primers against user-selected database in order to avoid primer pairs (all combinations including forward-reverse primer pair, forward-forward as well as reverse-reverse pairs) that can cause non-specific amplifications.

Abbreviations: Primer-BLAST

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

Defining Citation: PMID:22708584

Keywords: primer, blast, pcr target, polymerase chain reaction, primer design

Funding:

Availability: Acknowledgement requested, Public

Resource Name: Primer-BLAST

Resource ID: SCR_003095

Alternate IDs: OMICS_02343

Record Creation Time: 20220129T080217+0000

Record Last Update: 20250519T204643+0000

Ratings and Alerts

No rating or validation information has been found for Primer-BLAST.

No alerts have been found for Primer-BLAST.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 4953 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

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

Huang D, et al. (2025) Effects of Seaweed Polysaccharide on the Growth and Physiological Health of Largemouth Bass, Micropterus salmoides. Antioxidants (Basel, Switzerland), 14(1).

Yotsomnuk P, et al. (2025) Lipopolymers as the Basis of Non-Viral Delivery of Therapeutic siRNA Nanoparticles in a Leukemia (MOLM-13) Model. Biomolecules, 15(1).

Gawad WE, et al. (2025) Cyclic di AMP phosphodiesterase nanovaccine elicits protective immunity against Burkholderia cenocepacia infection in mice. NPJ vaccines, 10(1), 22.

Yang T, et al. (2025) Genome-Wide Study of Plant-Specific PLATZ Transcription Factors and Functional Analysis of OsPLATZ1 in Regulating Caryopsis Development of Rice (Oryza sativa L.). Plants (Basel, Switzerland), 14(2).

Khorramdelazad H, et al. (2025) A1, an innovative fluorinated CXCR4 inhibitor, redefines the therapeutic landscape in colorectal cancer. Cancer cell international, 25(1), 5.

Sundararajan P, et al. (2025) The impact of spray-induced gene silencing on cereal phyllosphere microbiota. Environmental microbiome, 20(1), 1.

Cui Z, et al. (2025) Novel full-thickness biomimetic corneal model for studying pathogenesis and treatment of diabetic keratopathy. Materials today. Bio, 30, 101409.

Chudhary A, et al. (2025) Characterization of chemosensory genes in the subterranean pest

Gryllotalpa Orientalis based on genome assembly and transcriptome comparison. BMC genomics, 26(1), 33.

Wan Y, et al. (2025) Characterization of the C5H11ORF96 gene in chickens: cloning, tissue distribution and investigation of its potential function in stress response regulation. Poultry science, 104(1), 104500.

Koch R, et al. (2025) Examining the potential involvement of NONO in TDP-43 proteinopathy in Drosophila. The European journal of neuroscience, 61(1), e16632.

Rzepecka IK, et al. (2025) High Frequency of PIK3R1 Alterations in Ovarian Cancers: Clinicopathological and Molecular Associations. Cancers, 17(2).

Zhang Z, et al. (2025) Microglia depletion reduces neurodegeneration and remodels extracellular matrix in a mouse Parkinson's disease model triggered by ?-synuclein overexpression. NPJ Parkinson's disease, 11(1), 15.

Verdile N, et al. (2025) New Insights in Microplastic Cellular Uptake Through a Cell-Based Organotypic Rainbow-Trout (Oncorhynchus mykiss) Intestinal Platform. Cells, 14(1).

Becchimanzi A, et al. (2025) Deformed wing virus coopts the host arginine kinase to enhance its fitness in honey bees (Apis mellifera). BMC biology, 23(1), 12.

Taghavi S, et al. (2025) Exosome Loaded in Microneedle Patch Ameliorates Renal Ischemia-Reperfusion Injury in a Mouse Model. Stem cells international, 2025, 3106634.

Ni M, et al. (2025) BDH1 identified by transcriptome has a negative effect on lipid metabolism in mammary epithelial cells of dairy goats. BMC genomics, 26(1), 66.

Ghorbani A, et al. (2025) AutoPVPrimer: A comprehensive AI-Enhanced pipeline for efficient plant virus primer design and assessment. PloS one, 20(1), e0317918.

Cui Y, et al. (2025) Microbial community structure and functional traits involved in the adaptation of culturable bacteria within the gut of amphipods from the deepest ocean. Microbiology spectrum, 13(1), e0072324.

Zhao D, et al. (2025) Identification of TUBB3 as an immunotherapy target in lung cancer by genome wide in vivo CRISPR screening. Neoplasia (New York, N.Y.), 60, 101100.