

Resource Summary Report

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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: data analysis service, service resource, production service resource, analysis service resource

Defining Citation: [PMID:22708584](#)

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

Availability: Free, Freely available

Resource Name: Primer-BLAST

Resource ID: SCR_003095

Alternate IDs: OMICS_02343

Record Creation Time: 20220129T080217+0000

Record Last Update: 20260801T190913+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 5498 mentions in open access literature.

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

Nong VD, et al. (2026) Identification of stable internal reference genes for expression analysis in the liver and pancreas of diabetic mouse (*Mus musculus* L.) models under physiological, pathological and treatment conditions. *PloS one*, 21(1), e0338403.

Kumar A, et al. (2026) Potentials of *Bacillus subtilis*-derived surfactin to improve performance, intestinal health and welfare of broilers under necrotic enteritis challenge. *Poultry science*, 105(1), 106091.

Poudel S, et al. (2026) Age-related changes in the transcriptomic profile associated with ovarian small white follicle recruitment in commercial laying hens. *Poultry science*, 105(1), 106057.

Wang Y, et al. (2026) An RPA-CRISPR/Cas12a-based rapid and sensitive nucleic acid method for detection of *Toxoplasma gondii* in tissue and blood samples. *Microbiology spectrum*, 14(1), e0155025.

Cui Y, et al. (2026) MicroRNA-199a-3p suppresses non-small cell lung cancer progression by targeting FTO to enhance m6A-mediated downregulation of MZF1 and its transcriptional activation of CLDN1. *Molecular medicine reports*, 33(1).

Low TCH, et al. (2026) The C-terminal ZZ domain of the *Drosophila* ORB2 RNA-binding protein is required for spermatid individualization. *G3 (Bethesda, Md.)*, 16(1).

Gan Y-X, et al. (2026) HERV6196 as an enhancer with oncogenic potential in rectal cancer. *Microbiology spectrum*, 14(1), e0078825.

Li X, et al. (2026) Coinfection with fowl adenovirus serotypes 1 and 4 (FAdV-1 and -4) enhances FAdV-4 replication through FAdV-1-mediated upregulation of HSPA2 expression. *Virulence*, 17(1), 2605751.

Wang QN, et al. (2026) Inhalation exposure to tire rubber particle-sourced pollutant 6PPD-quinone involving basolateral amygdala impairment in male ICR mice. *Journal of advanced research*, 79, 293.

Hoggard NK, et al. (2026) Pathology of a Canine Model of Localized Prostate Carcinoma. *The Prostate*, 86(1), 65.

Morita M, et al. (2026) Investigation of the Difference in Growth-Promoting Factor Secretion Between Canine and Rabbit Corneal Epithelial Cells. *Veterinary ophthalmology*, 29(1), e70050.

Wu J, et al. (2026) Emerging adaptation of BJ/94 lineage H9N2 viruses to waterfowl: insights into enhanced replication and immune activation in the host cells. *Poultry science*, 105(1), 106182.

Garg P, et al. (2026) Emerging genetic diversity and molecular epidemiology of *Entamoeba moshkovskii* among patients with acute diarrhoea in Northern India. *Tropical medicine and health*, 54(1), 3.

Chen J, et al. (2026) Genomic and transcriptomic analysis of yield enhancement mechanism of lipopeptide iturin W by tryptone supplementation. *Microbiology spectrum*, 14(1), e0324725.

Wang M, et al. (2026) Development and preliminary application of a multiplex qPCR assay for the detection of avian leukosis virus subgroup J, reticuloendotheliosis virus, and chicken infectious anemia virus. *Poultry science*, 105(1), 106122.

Carbone C, et al. (2025) Antibody-based delivery of interleukin-2 modulates the immunosuppressive tumor microenvironment and achieves cure in pancreatic ductal adenocarcinoma syngeneic mice. *Journal of experimental & clinical cancer research : CR*, 44(1), 7.

Lu C, et al. (2025) Mediator regulates transcriptional termination through crosstalk with pre-mRNA 3' end processing factors. *Molecular cell*, 85(11), 2147.

McIntyre TI, et al. (2025) KDM6B-dependent epigenetic programming of uterine fibroblasts in early pregnancy regulates parturition timing in mice. *Cell*, 188(5), 1265.

Gonzalez LA, et al. (2025) Sustained tenascin-C expression drives neointimal hyperplasia and promotes aortocaval fistula failure. *American journal of physiology. Heart and circulatory physiology*, 328(6), H1147.

Qin T, et al. (2025) Treg-microglia partnership in the injured spinal cord preserves Treg cell function and regulates microglial cholesterol metabolism. *Neuron*.