

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/>

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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: analysis service resource, data analysis service, production service resource, 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: 20260821T042613+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 6113 mentions in open access literature.

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

Wong JP, et al. (2026) NF- κ B and STAT3 signaling uniquely stratify survival in female glioblastoma patients. *iScience*, 29(2), 114761.

Malíček L, et al. (2026) Anti-PECAM-1 antibodies: another tool for visualization of Reissner's fiber and the subcommissural organ in rat central nervous system. *Brain structure & function*, 231(3).

Nikhil J, et al. (2026) Kynurenine Pathway Metabolite Levels in Drug Naïve and Risperidone Treated Schizophrenia: Insights From Systemic and Post-Mortem Brain Tissue Analysis. *Journal of neurochemistry*, 170(6), e70504.

Sharma M, et al. (2026) Improved reference assembly and core collection resequencing to facilitate exploration of important agronomical traits for the improvement of oilseed crop, *Carthamus tinctorius* L. *GigaScience*, 15.

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.

Yemelyanenko J, et al. (2026) C-Terminal Truncation and Fusion Partner Determine Oncogenicity of FGFR3. *Cancer research*, 86(6), 1372.

Kobayashi H, et al. (2026) Netrin-1 Promotes Pancreatic Tumorigenesis and Innervation through NEO1. *Cancer research*, 86(8), 1883.

Mrkacek M, et al. (2026) ORMDL Proteins Turnover via Proteasome and Autophagy Is Cell-Type Dependent and Tied to Ceramide Homeostasis. *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*, 40(6), e71655.

Mengi Camur N, et al. (2026) Selection of appropriate reference genes in Apoe^{-/-} mouse brain. *IBRO neuroscience reports*, 20, 653.

Nascimento SC, et al. (2026) Comparative transcriptomic dynamics reveal molecular responses of susceptible and resistant *Triticum aestivum* genotypes to wheat stripe mosaic virus. *Scientific reports*, 16(1), 6397.

- 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.
- Pirttiniemi A, et al. (2026) Long-chain polyphosphates induce glomerular microthrombi and exacerbate LPS-induced acute kidney injury in mouse. *Disease models & mechanisms*, 19(3).
- Jiang Z, et al. (2026) Vertebral morphological changes driven by *rflna* lead to body shape differentiation in carp. *Zoological research*, 47(1), 128.
- Salih MAM, et al. (2026) SUMOylation machinery protein, PIAS4 role in breast cancer cell proliferation and drug sensitivity. *Molecular biology reports*, 53(1), 336.
- Elgamal H, et al. (2026) Melanoma antigen genes A1 and A3 as predictors of treatment response and survival in HCV-associated hepatocellular carcinoma: a prospective study. *BMC gastroenterology*, 26(1), 68.
- Schönbichler A, et al. (2026) Tyrosine kinase targeting uncovers oncogenic pathway plasticity in Tasmanian devil transmissible cancers. *The EMBO journal*, 45(5), 1426.
- Li R, et al. (2026) Targeting the CCL7-STAT1 axis attenuates microglial neurotoxicity and photoreceptor degeneration in retinitis pigmentosa. *Journal of neuroinflammation*, 23(1), 62.
- Liu J, et al. (2026) Cloning and functional analysis of the lobed-leaf gene *BjA10.LL* in *Brassica juncea* L. *Stress biology*, 6(1), 8.
- Rezaenasab A, et al. (2026) TMEM105 upregulation promotes colorectal cancer malignancy: a novel prognostic biomarker potentially linked to the MYC-Ribosome biogenesis axis. *Cancer cell international*, 26(1), 76.
- Kim C, et al. (2026) Exosomes derived from avian influenza virus-infected chickens modulate host immune responses. *Poultry science*, 105(3), 106386.