Resource Summary Report

Generated by RRID on Sep 11, 2026

PrimerBank

RRID:SCR_006898
Type: Tool

Proper Citation

PrimerBank (RRID:SCR_006898)

Resource Information

URL: http://pga.mgh.harvard.edu/primerbank/

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Description: Database of human and mouse primer pairs for gene expression analysis by polymerase chain reaction (PCR) and quantitative PCR (qPCR). A total of 306,800 primers covering most known human and mouse genes can be accessed from the PrimerBank database, together with information on these primers such as T(m), location on the transcript and amplicon size. For each gene, at least one primer pair has been designed and in many cases alternative primer pairs exist. Primers have been designed to work under the same PCR conditions, thus facilitating high-throughput QPCR. All primers in PrimerBank were carefully designed to ensure gene specificity. All experimental validation data for mouse primers are available from PrimerBank. You can submit your primers. They will be added to the database once they are properly QCd.

Abbreviations: PrimerBank

Synonyms: PrimerBank: PCR Primers for Gene Expression Detection and Quantification

Resource Type: data or information resource, data repository, database, service resource, storage service resource

Defining Citation: PMID:22086960, PMID:19906719, PMID:19108745, PMID:14654707

Keywords: electrophoresis, gene expression, quantitative pcr, gel, gene, agarose, algorithm, amplification, human, molecular probe, primer database, mouse, pcr, primer, primer pair, protein, quantification, reaction, secondary structure, polymerase chain reaction, real-time pcr, pcr primer, detection, blast, bio.tools, FASEB list

Funding: NHLBI U01 HL66678

Availability: Public, Acknowledgement requested, The community can contribute to this resource

Resource Name: PrimerBank

Resource ID: SCR_006898

Alternate IDs: nif-0000-21333, OMICS_02323, biotools:primerbank

Alternate URLs: https://bio.tools/primerbank

Record Creation Time: 20220129T080238+0000

Record Last Update: 20260905T132603+0000

Ratings and Alerts

No rating or validation information has been found for PrimerBank.

No alerts have been found for PrimerBank.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 1709 mentions in open access literature.

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

Ziegler Y, et al. (2026) JAK/STAT1-interferon-ISGylation networks in breast cancer resistance to inhibitors of FOXM1 and CDK4/6. NPJ breast cancer, 12(1).

Chen CY, et al. (2026) Transcriptome-guided development of a fibrosis-reversal compound reduces skin scarring and allows regeneration via mitochondrial uncoupling. Cell reports. Medicine, 7(5), 102821.

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.

Sornsenee P, et al. (2026) Antibacterial, Antioxidant, and Anti-inflammatory Activities of Lacticaseibacillus paracasei Lysates Isolated from Fermented Palm Sap. Probiotics and antimicrobial proteins, 18(1), 251.

Liao K, et al. (2026) The AHCY-adenosine complex rewires mRNA methylation to enhance fatty acid biosynthesis and tumorigenesis. Cell research, 36(2), 152.

Song L, et al. (2026) The Establishment of Prostate-specific, SKP2 Humanized Mice by CRISPR Knock-in Method Reveals Neoplastic Initiation and Microenvironmental Reprogramming. Research square.

Lim M, et al. (2026) The LXR?/NF-?B axis reprograms CAR-T cells to resist exhaustion in the tumor microenvironment. Oncoimmunology, 15(1), 2611615.

Conklin B, et al. (2026) NanoScript-Enabled Nonviral Transient Repression of Phosphatase and Tensin Homolog for Axonal Regeneration and Central Nervous System Injury Repair. ACS nano, 20(8), 6582.

Huang JR, et al. (2026) Exosomal HMGB1 Orchestrates NSCLC Progression and Immunosuppressive Macrophage Polarisation Through the TLR4/NF-?B/IL-6/STAT3 Signalling Cascade. Journal of cellular and molecular medicine, 30(3), e71050.

Smith A, et al. (2026) Axial Identity of Spinal Cord Neural Progenitor Cell Grafts Is Dispensable for Regeneration and Functional Recovery After Spinal Cord Injury. Cells, 15(6).

Cho RH, et al. (2026) A humanized IFN-? mouse model reveals skin eschar formation, enhanced susceptibility and scrub typhus pathogenesis. PLoS pathogens, 22(2), e1013419.

Živi? K, et al. (2026) The Effects of BRCA1 and BRCA2 Promoter Methylation on Clinicopathological Characteristics and Clinical Outcomes in HGSOC. Cells, 15(3).

Silva MDS, et al. (2026) Neutrophil Inflammasome Activation and Pyroptosis Induced by a Metalloproteinase via HIF-1? and Gasdermin D Pathways. Journal of innate immunity, 18(1), 169.

Li R, et al. (2026) Targeting the ODC1-YBX1 axis reverses gastric cancer chemoresistance via transcriptional control of SLC7A11-mediated ferroptosis. Cell death discovery, 12(1).

Hao Y, et al. (2026) Network Pharmacology and Integrated Experimental Evidence Demonstrate That Ophiopogonin D Suppresses Hepatocellular Carcinoma Progression via the UCK2-SLC7A11 Axis. Food science & nutrition, 14(6), e71869.

Yu K, et al. (2026) Hypoxia-preconditioned adipose-derived stem cells with injectable small intestinal submucosa for enhanced cartilage repair in osteoarthritis. Bioengineering & translational medicine, 11(3), e70116.

Huang Z, et al. (2026) PRMT3-mediated post-translational adaptation to fasting regulates metabolic flexibility. Nature communications, 17(1).

Fu T, et al. (2026) Targeting TFAM K76 acetylation attenuates mitochondrial dysfunction and kidney injury in diabetic kidney disease. Cardiovascular diabetology, 25(1).

Almeida da Paz M, et al. (2026) MER57E3 transposable elements regulate gene expression in a human cell model of neural development. Genome biology, 27(1).

Zhang M, et al. (2026) Canonical BAF chromatin remodeling complex specifies stem cell fate via cell-type-specific co-factor recruitment. Nature communications, 17(1).