

Primer Bank

PCR Primers for Gene Expression Detection and Quantification

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Search where Species For text

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DNA Core Facility
Center for Computational and Integrative Biology

PrimerBank is a public resource for PCR primers. These primers are designed for gene expression detection or quantification (real-time PCR). PrimerBank contains over 306,800 primers covering most known human and mouse genes. There are several ways to search for primers: GenBank Accession, NCBI protein accession, NCBI Gene ID, Gene Symbol^{New!}, PrimerBank ID or Keyword (gene description) or you can blast your gene sequence against the primerbank Sequence DB^{New!}.

The primer design algorithm has been extensively tested by real-time PCR experiments for PCR specificity and efficiency. We have tested 26,855 primer pairs that correspond to 27,681 mouse genes by Real Time PCR followed by agarose gel electrophoresis and sequencing of the PCR products. The design success rate is 82.6% (22,187 successful primer pairs) based on agarose gel electrophoresis.

Publication: Xiaowei Wang and Brian Seed (2003) A PCR primer bank for quantitative gene expression analysis.
Nucleic Acids Research 31(24): e154; pp.1-8.

Send email to bioinformatics@ccib.mgh.harvard.edu with questions or comments about this web site.

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