



PrimePCR

PrimePCR, developed by **Bio-Rad Laboratories**, offers a line of high-quality, pre-validated qPCR (quantitative Polymerase Chain Reaction) assays and reagents. These products are meticulously designed to enhance gene expression analysis, genotyping, and a variety of other PCR-based applications.

Assay Performance Standards

SENSITIVITY	SPECIFICITY	AMPLIFICATION EFFICIENCY	LINEAR DYNAMIC RANGE	R2
Accurate detection of 20 copies	Validated amplicon sequence with next-generation sequencing; minimal primer-dimer formation and gDNA cross-reactivity	90 - 110%	Minimum of 6 orders of magnitude; detection of a synthetic template standard curve from 20 to 20,000,000 copies	>0.98

- Assay Design and Validation** These assays undergo rigorous design and validation processes to ensure high specificity, efficiency, and sensitivity. They are tailored to target a wide range of genes and are compatible with various qPCR platforms.
- Ready-to-Use Assays** Pre-designed and ready-to-use, reducing the time and effort required for assay development and optimisation.
- Wide Range of Targets** The product line includes assays for human, mouse, rat, and other species, covering a comprehensive set of genes and pathways, including reference genes, microRNAs, and gene panels for specific research areas.
- Customisation Options** For researchers with specific needs, Bio-Rad offers custom assay design services to create tailored solutions.
- Quality Control** Each assay undergoes stringent quality control processes, including wet-lab validation, to ensure reliability and reproducibility.
- Integrated Solutions** PrimePCR products are designed to work seamlessly with Bio-Rad's qPCR instruments, such as the CFX Real-Time PCR Detection Systems, and software for data analysis.

Contact your **Lasec® Sales Representative** today.
Ts & Cs apply

+27 21 531 7504 sales@lasec.com www.lasec.com



1 Real-time PCR Assays are available in the following formats:



Pre-designed Primer and Probe Assays:

Gene expression assays for the human and mouse genomes



Custom Oligonucleotides:

Design your own PCR primer or probe assay



Customisable 96-and 384-Well Plates:

Use the custom plate configurator to conveniently design a PCR plate



Pre-designed PCR Arrays:

Select from a wide variety of disease- and pathway-specific arrays



PreAmp Assays:

1000-fold unbiased target-specific preamplification of limited nucleic acid



[Browse for more Information](#)



2 Controls and Reference Assays are available to facilitate assay normalisation and control:



Experimental Controls:

For evaluating reverse transcription performance, RNA quality, genomic DNA contamination, and PCR reaction performance



Reference Gene Assays:

For relative gene expression analysis to normalize for variation in the amount of input messenger RNA (mRNA) between samples



DNA templates:

Serve as a positive real-time PCR control for the corresponding gene assay

All real-time PCR assays and arrays can be used with CFX real-time PCR detection systems and data analysis software, streamlining PCR data collection and analysis.

3 ddPCR assays are available in the following formats:



Pre-designed mutation detection probe assays- for human samples



Pre-designed copy number variation (CNV) probe assays - for human samples



Custom oligonucleotides - design your own ddPCR probe assay



[Browse for more Information](#)



Contact your Lasec® Sales Representative today.

Ts & Cs apply

+27 21 531 7504 sales@lasec.com www.lasec.com

