Quantitative and Digital PCR Solutions



Detect your target sequences with unmatched accuracy of PCR

From copy number variation (CNV), viral vector copy number, and viral titer to customized assays, GENEWIZ Multiomics & Synthesis Solutions from Azenta Life Sciences offer polymerase chain reaction (PCR) solutions to align with your research goals and applications. Our assay experts will partner with you to find the best approach so you can be confident you'll receive accurate detection of your nucleic acid targets. Whether through real-time detection with quantitative PCR (qPCR) or endpoint detection with digital PCR (dPCR), our PCR solutions offer the flexibility, speed, and precision you need to advance your scientific breakthroughs.

	Quantitative PCR (qPCR)	Digital PCR (dPCR)
Details	 Tried-and-true method for real-time detection Wide dynamic range of detection High throughput for speed and scalability Convenient and affordable predeveloped assays or custom solutions 	 Absolute quantitation without the need for complex standard curves or reference targets End-point detection boosts reproducibility Detect rare transcripts and low frequency targets Straightforward data analysis and interpretation
Applications	 Gene expression Copy number variation (with standard curve) Confirmatory testing of NGS data SNP genotyping and allelic discrimination Methylation analysis (CpG) Pathogen detection and quality control Customized qPCR solutions 	 Absolute copy number variation (CNV) Rare mutation and allelic discrimination Low-abundance transcript detection Viral titer (copies/mL) Vector copy number (copies/genome) Circulating tumor DNA (ctDNA) and cell-free DNA (cfDNA) detection in liquid biopsy

PCR Solutions Workflow





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Features & Benefits

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Experimental Design and Optimization To ensure project success

Assay Development and Validation Customized to meet your project needs



Standard and Customized Data Analysis Options available

- High-throughput capacity using a single vendor for scalable PCR assays and other NGS approaches to supplement and extend your results
- **Ph.D.-level project managers** to provide expertise in primer design, optimization, and troubleshooting
- Streamline operations by integrating PCR with other GENEWIZ services and more
- Complete cell and gene therapy solutions including CAP/CLIA-certified solutions to deliver high-quality cell and gene therapies

dPCR for Drug Development

Regulatory guidelines recommend the use of PCR methodology for multiple quality and safety checkpoints throughout the drug development process. For cell and gene therapy products, hyper-sensitive dPCR has largely been used for the evaluation of viral titer as well as quantification of viral vector copy number (VCN) of treated cells for AAV, lentivirus, and retrovirus.

Contact us to learn how our customized PCR solutions can help you advance your clinical research.



Scan or click the QR code to explore our full portfolio



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