

## qPCR and ddPCR Services for Cell Therapy and Gene Therapy Development

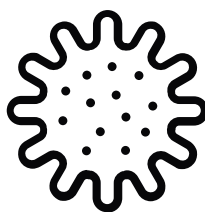
Precision has demonstrated expertise in the use of PCR technologies – including quantitative PCR (qPCR) and droplet digital PCR (ddPCR) in cell and gene therapy applications, both at the preclinical stage and for clinical sample analysis. Precision performs assay development/transfer as well as validation for custom targets, with rapid turnaround time available for real-time data reporting.

### Cell Therapy



Assay	Assay Matrices and Features
Pharmacokinetics (PK) / Persistence of cell therapy product such as CAR-T	<ul style="list-style-type: none"> <li>Common matrices: blood, bone marrow, tissue</li> <li>Custom duplex assays targeting cell therapy vector and a reference gene</li> <li>Often performed with flow cytometry for CAR-T quantification</li> </ul>
Replication-Competent Lentivirus (RCL) Assay	<ul style="list-style-type: none"> <li>Precision has developed and validated several RCL assays; off-the-shelf assays available</li> </ul>

### Gene Therapy



Assay	Assay Matrices and Features
Biodistribution	<ul style="list-style-type: none"> <li>Species: NHP, murine, canine, feline, porcine</li> <li>in vivo distribution, persistence, and clearance of gene therapy product</li> </ul>
Shedding	<ul style="list-style-type: none"> <li>Common matrices: saliva, urine, feces</li> <li>Precision recommends ddPCR for shedding assays due to ultrasensitive and absolute nucleic acid quantification.</li> </ul>
Transgene Expression	<ul style="list-style-type: none"> <li>Assess expression of transgene via RNA analysis</li> <li>Routinely performed in tissues with positive biodistribution results.</li> </ul>

### Sample Processing & DNA/RNA Extraction

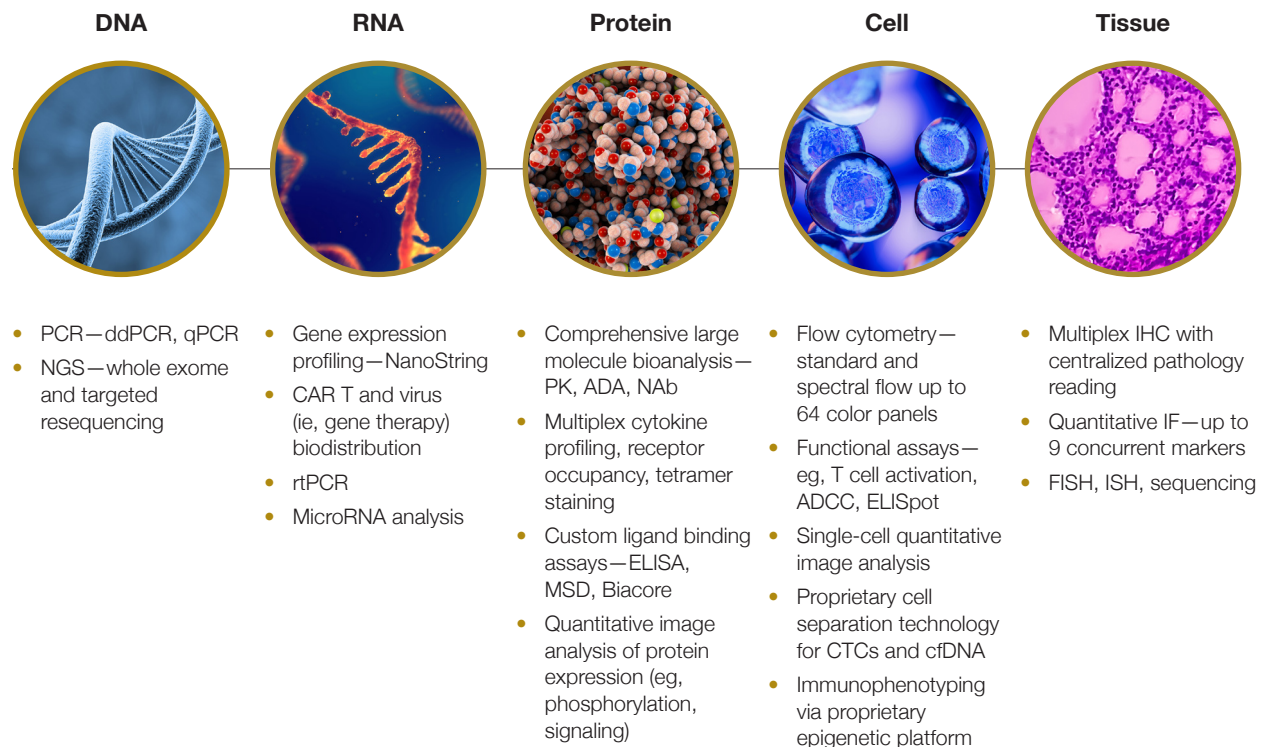
Precision has a global network of sample logistics and sample processing facilities, and the ability to extract nucleic acids from a range of matrices utilizing automated DNA/RNA extraction platforms.

# Solving the most complex challenges in biomarker-driven and precision therapeutic development

Precision for Medicine is the first clinical research services organization engineered to support life sciences companies in the use of biomarkers essential to targeting patient treatments more precisely and effectively. Combining deep scientific expertise, clinical trial excellence, and advanced approaches for data science, Precision accelerates therapeutic development from the late preclinical phase through commercialization.

- 7 specialty labs throughout North America and Europe
- Sample processing labs on 5 continents
- Central lab services, including custom kitting, logistics, processing, and storage
- Assays available under GxP, CLIA, CLSI, CAP, ISO 9001/13485

**Comprehensive suite of technologies, capabilities, and proprietary approaches to interrogate any sample type**



For more information about Precision for Medicine visit [precisionformedicine.com](http://precisionformedicine.com)

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