

ddPCR™ Custom Probe Assays

Catalog #	Description
10031276	Custom ddPCR FAM Assay , 200 x 20 µl reactions
10031277	Custom ddPCR FAM Assay , 1,000 x 20 µl reactions
10031278	Custom ddPCR FAM Assay , 2,500 x 20 µl reactions
10031279	Custom ddPCR HEX Assay , 200 x 20 µl reactions
10031280	Custom ddPCR HEX Assay , 1,000 x 20 µl reactions
10031281	Custom ddPCR HEX Assay , 2,500 x 20 µl reactions
12005588	Custom ddPCR Cy5 Assay , 200 x 20 µl reactions
12005589	Custom ddPCR Cy5 Assay , 1,000 x 20 µl reactions
12005590	Custom ddPCR Cy5 Assay , 2,500 x 20 µl reactions
12005591	Custom ddPCR Cy5.5 Assay , 200 x 20 µl reactions
12005592	Custom ddPCR Cy5.5 Assay , 1,000 x 20 µl reactions
12005593	Custom ddPCR Cy5.5 Assay , 2,500 x 20 µl reactions
12022489	Custom ddPCR ROX Assay , 200 x 20 µl reactions
12022457	Custom ddPCR ROX Assay , 1,000 x 20 µl reactions
12022663	Custom ddPCR ROX Assay , 2,500 x 20 µl reactions
12022662	Custom ddPCR ATTO 590 Assay , 200 x 20 µl reactions
12022500	Custom ddPCR ATTO 590 Assay , 1,000 x 20 µl reactions
12022661	Custom ddPCR ATTO 590 Assay , 2,500 x 20 µl reactions

For Research Use Only. Not for use in diagnostic procedures.

Description

ddPCR Custom Probe Assays are customized with your sequences and fluorophores for use with Bio-Rad Droplet Digital™ PCR (ddPCR) Systems. Design and customize your assay for any application, such as DNA rearrangements, pathogen detection, gene expression, and more. Assays should be validated prior to use.

Ordering Information

ddPCR Custom Probe Assays can be customized and ordered online at bio-rad.com/digital-assays. Required ddPCR Supermixes can also be ordered at bio-rad.com.

Storage and Stability

ddPCR Custom Probe Assays are stable for 12 months when stored at 4°C and protected from light. The assay mix can also be kept at -20°C for long-term storage. Assays are stable for shipment at ambient temperature.

Kit Contents

The ddPCR Custom Probe Assay is a 20x concentrated, ready-to-use mix containing primer pairs and probes.

Required Reagents and Equipment

- QX200™ Droplet Generator (catalog #1864002) or Automated Droplet Generator (#1864101)
- QX200 (#1864003) or QX600™ (#12013328) Droplet Reader
- QX ONE™ Droplet Digital PCR System (#12006536)
- C1000 Touch Thermal Cycler with 96-Deep Well Reaction Module (#1851197) or PTC Tempo Deepwell Thermal Cycler (#12015392)
- PX1 PCR Plate Sealer (#1814000)

- For 1–2 targets per well in FAM and/or HEX assays, ddPCR Supermix for Probes (No dUTP) (#1863023, 1863024, or 1863025) is recommended
- For 1–2 targets per well in Cy5, Cy5.5, ROX, and/or ATTO 590 assays or for >2 targets per well, ddPCR Multiplex Supermix (#12005909, 12005910, or 12005911) is recommended

Go to bio-rad.com for additional supermixes for other applications.

Refer to the QX200 Droplet Generator Instruction Manual (10031907), Automated Droplet Generator Instruction Manual (10043138), or QX ONE Droplet Digital PCR System and QX ONE Software User Guide (10000116512) for ordering information on consumables such as oils, cartridges, gaskets, plates, and seals.

Instructions for Use

Newly designed ddPCR Custom Assays should be run across a thermal gradient (50–60°C) to determine the optimal annealing/extension temperature for separation of positive and negative droplets while minimizing rain (droplets that fall between the major positive and negative populations). If possible, an annealing/extension temperature that optimizes performance of both target and reference assays should be selected.

For more information about assay design and optimization of ddPCR reactions, refer to the Droplet Digital PCR Applications Guide ([bulletin 6407](#)) and the Rare Mutation Detection Best Practices Guidelines ([bulletin 6628](#)).

Data Acquisition and Analysis

Follow the instructions for data acquisition and analysis based on the droplet reader being used.

- For the QX200 Droplet Reader, refer to the QX200 Droplet Reader and QX Manager Software Standard Edition User Guide (10000107223) or the QX200 Droplet Reader and QX Manager Software Premium Edition User Guide (10000163733)
- For the QX600 Droplet Reader, refer to the QX600 Droplet Reader and QX Manager Software Standard Edition User Guide (10000153877) or the QX600 Droplet Reader and QX Manager Software Premium Edition User Guide (10000153878)
- For the QX ONE ddPCR System, refer to the QX ONE Droplet Digital PCR System and QX ONE Software User Guide (10000116512) and the QX ONE Software Standard Edition User Guide (10000116655) or Regulatory Edition User Guide (10000116656)

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