

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
12025634	Custom ddPCR ATTO 550 Assay , 200 x 20 µL reactions
12025589	Custom ddPCR ATTO 550 Assay , 1,000 x 20 µL reactions
12025635	Custom ddPCR ATTO 550 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. See Table 1 for a list of fluorophores compatible with your system.

Visit bio-rad.com/ddPCRconsumables to find ordering information on consumables such as oils, cartridges, gaskets, plates, and seals.

Table 1. Fluorophore compatibility.

QX200 Droplet Reader	QX ONE ddPCR System	QX Continuum ddPCR System	QX600 Droplet Reader	QX700 ddPCR System
FAM	FAM	FAM	FAM	FAM
HEX	HEX	HEX	HEX	HEX
	Cy5	ROX	ROX	ATTO 550
	Cy5.5	Cy5	ATTO 590	ROX
			Cy5	ATTO 590
			Cy5.5	Cy5
				Cy5.5

Required Reagents and Equipment

For assays using the QX200™ Droplet Generator (catalog #1864002) or Automated Droplet Generator (AutoDG™, #1864101):

- iScript Advanced cDNA Synthesis Kit (#1725037, 1725038)
- For 1–2 targets, ddPCR Supermix for Probes (No dUTP) (#1863023, 1863024, 1863025)
- For >2 targets, ddPCR Multiplex Supermix (#12005909, 12005910, 12005911)
- QX100, QX200, or QX600™ Droplet Reader (#1863003, 1864003, or 12013328, respectively)
- PX1 PCR Plate Sealer (#1814000)

For assays using the QXONE™ Droplet Digital PCR System (#12006536):

- iScript Advanced cDNA Synthesis Kit (#1725037, 1725038)



- ddPCR Multiplex Supermix (#12005909, 12005910, 12005911)
- PX1 PCR Plate Sealer (#1814000)

For assays using the QX Continuum™ Droplet Digital PCR System (#12019613):

- QX Continuum ddPCR Supermix for Probes (#12019028, 12019141, 12019133)
- PX1 PCR Plate Sealer (#1814000)

For assays using QX700™ Droplet Digital PCR Systems (#17011036, #17010638, #17010628):

- naica™ 5X Multiplex ddPCR Mix (#12025253, #12025254)
- naica 5X ddPCR Mix (#12025257)
- naica 10X Multiplex ddPCR Mix (#12025255, #12025256, #12025258)
- PX1 PCR Plate Sealer (#1814000)

Refer to the relevant instrument manual for operation (Table 2).

Table 2. Instrument manuals.

Bulletin Number	Document
10031906	QX200 Droplet Reader and QuantaSoft™ Software Instruction Manual
10031907	QX200 Droplet Generator Instruction Manual
10000116512	QX ONE Droplet Digital PCR System and QX ONE Software Instrument Guide
10000153877	QX600 Droplet Reader and QX Manager Software Standard Edition User Guide
10043138	Automated Droplet Generator Instruction Manual (for ordering information on consumables such as oils, cartridges, gaskets, plates, and seals)
10000170603	QX Continuum Droplet Digital PCR System Instruction Manual
10000171494	QX700 ddPCR System Analysis Software User Guide
10000171493	QX700 Droplet Digital PCR System Instrument Guide

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 instructions for data acquisition and analysis based on the droplet reader in use.

- 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 User Guide for Standard Edition (10000116655) or Regulatory Edition (10000116656)
- For the QX Continuum Droplet Digital PCR System, refer to the QX Continuum Droplet Digital PCR System Instruction Manual (10000170603)
- For the QX700 ddPCR System, refer to the QX700 System Analysis Software User Guide (10000171494)

Visit [bio-rad.com/digital-assays](https://www.bio-rad.com/digital-assays) for more information.

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