August 2024

Product Sheet

Custom qPCR LNA® Assays Designed by QIAGEN® Genomic Services

Product group	Cat. no.	Purification	Concentration/volume	Quantity
Custom qPCR LNA Assay (Probe)	338320	HPLC	100 µM (16 µL)	4
Custom qPCR LNA Assay (2 primers)	338322	Standard desalt	100 µM (32 µL)	4

Description

Custom qPCR LNA Assays are composed of Custom qPCR LNA primers and Custom qPCR LNA probes as applicable. The assays are designed to be used in combination with the following:

- For 2-step RT-PCR procedures: QuantiNova® Reverse Transcription Kit (cat. no. 205411, or 205413) combined with QuantiNova SYBR® Green PCR Kit (cat. no. 208052, 208054, 208056, or 208057), or QuantiNova Probe PCR kit (cat. no. 208252, 208254, 208256, or 208257).
- For 1-step RT-PCR procedures: QuantiNova SYBR Green RT-PCR Kit (cat. no. 208152, 208154, or 208156,) or QuantiNova Probe RT-PCR Kit (cat. no. 208352, 208354, or 208356).
- For DNA template-based PCR applications use the QuantiNova SYBR Green PCR Kit (cat. no. 208052, 208054, or 208056), or QuantiNova probe PCR kit alone (cat. no. 208252, 208254, or 208256)

Format: This kit is intended for performing 400 or 4000 reactions in a reaction volume of 20 µL.

Shipping and Storage

The Custom PCR LNA Assays are shipped on dry ice or at room temperature. Upon receipt, store the assays at 2–8°C for short-term storage or at –30 to –15°C in a constant-temperature freezer for long-term storage. Repeated freeze–thaw cycles could be avoided by storing in aliquots. Under these conditions, the components are stable for 12 months without showing any reduction in performance and quality.

Quality Control

In accordance with QIAGEN's ISO-certified Quality Management System, each lot of Custom qPCR LNA Assays are tested against predetermined specifications to ensure consistent product quality.

Safety Information

When working with chemicals, always wear a suitable lab coat, disposable gloves, and protective goggles. For more information, please consult the appropriate safety data sheets (SDSs). These are available online in convenient and compact PDF format at **www.qiagen.com/safety**, where you can find, view, and print the SDS for each QIAGEN kit and kit component.

Product details

Table 1. Custom probes

Cat. no.	Format	Assay name*	ROI sequence*†	Probe label	Multiplex grouping	Lot number
CQP00001-H100	400 rxns	1-BRAF-1798-1800	GAAAAATAGCCTCAATTCTTAC CATCCACAAAATGGATCCAGA CAACTGTTCAAACTGATGGGAC CCACTCCATCGAGATTTCACTGT AGCTAGACCAAAATCACCTATT TTTACTGTGAGGTCTTCAT	HEX™	A	0000001
CQP00002-F100	400 rxns	1-BRAF-1798-G>A	GAAAAATAGCCTCAATTCTTAC CATCCACAAAATGGATCCAGA CAACTGTTCAAACTGATGGGAC CCACTCCATCGAGATTTtACTGT AGCTAGACCAAAATCACCTATT TTTACTGTGAGGTCTTCAT	FAM™	A	0000001
CQP00003-T100	400 rxns	1-BRAF-1799-T>G	GAAAAATAGCCTCAATTCTTAC CATCCACAAAATGGATCCAGA CAACTGTTCAAACTGATGGGAC CCACTCCATCGAGATTTCgCTGT AGCTAGACCAAAATCACCTATT TTTACTGTGAGGTCTTCAT	TAM	A	0000001
CQP00004-R100	400 rxns	1-BRAF-1799-1800-delins_AA	GAAAAATAGCCTCAATTCTTAC CATCCACAAAATGGATCCAGA CAACTGTTCAAACTGATGGGAC CCACTCCATCGAGATTTCttTGTA GCTAGACCAAAATCACCTATTTT TACTGTGAGGTCTTCAT	ROX™	A	0000001

* Assay name: 1-xxxx-####-####: prefix 1 = first design, prefix 2 = second design.

† ROI sequence: region of interest sequence.

Table 2. Custom primers

Cat. no.	Format	Assay name	Multiplex grouping	Lot number
CQR00001	400 rxns	1_BRAF_1798-1800	A	0000001

Ordering Information

Product	Contents	Cat. no.
QuantiNova Reverse Transcription Kit (50)	For 50 × 20 µL reactions: 100 µL 8x gDNA removal Mix, 50 µL Reverse Transcription Enzyme, 200 µL Reverse Transcription Mix (containing RT primers), 100 µL Internal Control, 1.9 mL RNase-Free Water	205411
QuantiNova Reverse Transcription Kit (200)	For 200 × 20 µL reactions: 4 × 100 µL 8x gDNA removal Mix, 4 × 50 µL Reverse Transcription Enzyme, 4 × 200 µL Reverse Transcription Mix (containing RT primers), 4 x 100 µL Internal Control, 4 × 1.9 mL RNase-Free Water	205413
QuantiNova Probe PCR Kit (100)	For 100 × 20 µL reactions: 1 mL 2x QuantiNova Probe PCR Master Mix, 250 µL QN ROX Reference Dye, 500 µL QuantiNova Yellow Template Dilution Buffer, 1.9 mL Water	208252
QuantiNova Probe PCR Kit (500)	For 500 × 20 µL reactions: 3 × 1.7 mL 2x QuantiNova Probe PCR Master Mix, 1 mL QN ROX Reference Dye, 500 µL QuantiNova Yellow Template Dilution Buffer, 1.9 mL Water	208254
QuantiNova Probe PCR Kit (2500)	For 2500 x 20 µL reactions: 15 × 1.7 mL 2x QuantiNova Probe PCR Master Mix, 5 × 1 mL QN ROX Reference Dye, 5 × 500 µL QuantiNova Yellow Template Dilution Buffer, 5 × 1.9 mL Water	208256
QuantiNova Probe PCR Kit (7500)	For 7500 × 20 µL reactions, consists of 3 of cat. no. 208256	208257
QuantiNova Probe RT-PCR Kit (100)	For 100 × 20 µL reactions: 1 mL QuantiNova Probe RT-PCR Master Mix, 20 µL QuantiNova	208352

Product	Contents	Cat. no.
	Probe RT Mix, 20 µL Internal Control RNA, 500 µL Yellow Template Dilution Buffer, 250 µL ROX Reference Dye, 1.9 µL RNase-Free Water	
QuantiNova Probe RT-PCR Kit (500)	For 500 × 20 µL reactions: 3 × 1.7 mL QuantiNova Probe RT-PCR Master Mix, 100 µL QuantiNova Probe RT Mix, 100 µL Internal Control RNA, 500 µL Yellow Template Dilution Buffer, 1 mL ROX Reference Dye, 2 × 1.9 µL RNase-Free Water	208354
QuantiNova Probe RT-PCR Kit (2500)	For 2500 x 20 µL reactions: 15 × 1.7 mL QuantiNova Probe RT-PCR Master Mix, 5 x 100 µL QuantiNova Probe RT Mix, 5 × 100 µL Internal Control RNA, 5 × 500 µL Yellow Template Dilution buffer, 5 × 1 mL ROX Reference Dye, 10 × 1.9 µL RNase-Free Water	208356
QuantiNova SYBR Green PCR Kit (100)	For 100 x 20 µL reactions: 1 mL 2x QuantiNova SYBR Green PCR Master Mix, 500 µL QuantiNova Yellow Template Dilution Buffer, 250 µL QN ROX Reference Dye, 1.9 mL Water	208052
QuantiNova SYBR Green PCR Kit (500)	For 500 x 20 µL reactions: 3 x 1.7 mL 2x QuantiNova SYBR Green PCR Master Mix, 500 µL QuantInova Yellow Template Dilution Buffer, 1 mL QN ROX Reference Dye, 1.9 mL Water	208054
QuantiNova SYBR Green PCR Kit (2500)	For 2500 × 20 µL reactions: 15 × 1.7 mL 2x QuantiNova SYBR Green PCR Master Mix, 5 × 500 µL QuantiNova Yellow Template	208056

Product	Contents	Cat. no.
	Dilution Buffer, 5 X 1 mL QN ROX Reference Dye, 5 × 1.9 mL Water	
QuantiNova SYBR Green PCR Kit (7500)	For 7500 x 20 µL reactions, consist of 3 of cat. no. 208056	208052
QuantiNova SYBR Green RT-PCR Kit (100)	For 100 x 20 µL reactions: 1 mL QuantiNova SYBR Green RT-PCR Master Mix, 20 µL QuantiNova SYBR Green RT Mix, 20 µL Internal Control RNA, 500 µL Yellow Template Dilution Buffer, 250 µL ROX Reference Dye, 1.9 µL RNase-Free Water	208152
QuantiNova SYBR Green RT-PCR Kit (500)	For 500 x 20 µL reactions: 3 x 1.7 mL QuantiNova SYBR Green RT-PCR Master Mix, 100 µL QuantiNova SYBR Green RT Mix, 100 µL Internal Control RNA, 500 µL Yellow Template Dilution Buffer, 1 mL ROX Reference Dye, 2 × 1.9 µL RNase-Free Water	208154
QuantiNova SYBR Green RT-PCR Kit (2500)	For 2500 × 20 µL reactions: 15 x 1.7 mL QuantiNova SYBR Green RT-PCR Master Mix, 5 x 100 µL QuantiNova SYBR Green RT Mix, 2 x 100 µL Internal Control RNA, 5 × 500 µL Yellow Template Dilution buffer, 5 × 1 mL ROX Reference Dye, 10 x 1.9 µL RNase-Free Water	208156

Custom qPCR LNA Assays are intended for molecular biology applications. This product is not intended for the diagnosis, prevention, or treatment of a disease. All due care and attention should be exercised in the handling of the products. We recommend all users of QIAGEN products to adhere to the NIH guidelines that have been developed for recombinant DNA experiments, or to other applicable guidelines.

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Document Revision History

Date	Changes
05/2022	Initial release.
08/2024	Updated “Ordering Information”