

Product Information	
qScript® MicroRNA cDNA Synthesis	
Part Number	95107-100
Number of Reactions	100 Reactions
Reaction Size	20 µL
Storage Temperature	-25°C to -15°C
Lot Number	66141368
Reference Number	042517, 060117, 051717, 090519, 160550828, 191716390
Expiration Date	04/30/2020

Product Description:

The qScript microRNA cDNA Synthesis Kit is an optimized reagent system that reverse transcribes small single-stranded RNA into 5'-labeled cDNA using either total RNA or miRNA enriched samples.

Single-stranded RNA is first polyadenylated by poly(A) polymerase before reverse transcription into universal cDNA using high performance qScript RT with a proprietary adapter oligo(dT) primer. The universal cDNA template enables simple and cost-effective microRNA profiling when used together with wet-lab validated PerfeCta microRNA Assays, PerfeCta Universal PCR Primer and PerfeCta SYBR Green SuperMix.

Component Part Numbers:

84002 qScript RT 0.10 mL

- 84173 Poly (A) Tailing Buffer (5X)
- 84175 Poly (A) Polymerase
- 84177 MicroRNA cDNA Reaction Mix
- 84179 PerfeCta Universal PCR Primer
- 84181 PerfeCta Human Positive Control Primer
- 84007 Nuclease Filled Water 1.50 mL

Product Specifications				
95107				
Assay	qScript microRNA cDNA Synthesis Kit	β-actin SYBR Green qRT-PCR Assay for qScript Reverse Transcriptase	DNase	RNase
Result	Pass	Pass	Pass	Pass

Quality Control Analysis and Specifications:

Nuclease Assay

DNase: DNase activity must be below the detectable limits of 100 pg DNase I equivalent as assayed using a fluorogenic substrate following a 1 hour incubation at 37°C with each kit component at 1X concentration.

RNase: RNase activity must be below the detectable limits of 1 pg RNase A equivalent as assayed using a fluorogenic substrate following a 1 hour incubation at 37°C with each kit component at 1X concentration.

qScript microRNA cDNA Synthesis Kit Must have detection of microRNA from 100 ng to 10 pg. Correlation of determination (R^2) \geq 0.990 from Ct standard curve analysis. Slope from Ct standard curve analysis between -3.20 and -3.75. The +PAP reactions must show a \geq 11 Ct difference from the “no-PAP” reactions. There must be at least three negative template controls with “undetermined” values.

β-actin SYBR Green qRT-PCR Assay for qScript Reverse Transcriptase: Detection of β-actin mRNA from 100ng to 100fg of total RNA. Coefficient of determination (R^2) \geq 0.990 with a slope analysis between -3.20 and -3.70

Limitations of Use

QuantaBio and Ultraplex are registered trademarks of QIAGEN Beverly, Inc. Quanta Biosciences, qScript, Geltrack, ToughMix, PerfeCta, and Fastmix are registered trademarks of Quanta BioSciences Inc. Extracta, AccuStart, AccuMelt, and Accuvue are trademarks of Quanta BioSciences Inc. Applied Biosystems, StepOne, StepOnePlus and ROX are trademarks of Thermo Fisher Scientific and or its subsidiaries. Please contact QIAGEN-Beverly for more information.

This product was developed, manufactured, and sold for *in vitro* use only. The product is not suitable for administration to humans or animals. SDS sheets relevant to this product are available upon request.