Product Information	
qScript® MicroRNA cDNA Synthesis	
Part Number	95107-100
Number of Reactions	100 Reactions
Reaction Size	20 µL
Storage Temperature	-25ºC to -15ºC
Lot Number	66170557
Reference Number	081120, 020420, 101419, 071020, 317894469, 321076298
Expiration Date	10/31/2022

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) ≥ 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 ≥ 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 ß-actin mRNA from 100ng to 100fg of total RNA. Coefficient of determination (R^2) ≥ 0.990 with a slope analysis between -3.20 and -3.70

Limitations of Use