

| Product Information           |                |
|-------------------------------|----------------|
| <b>qScript® cDNA SuperMix</b> |                |
| Part Number                   | 95048-500      |
| Number of Reactions           | 500 Reactions  |
| Reaction Size                 | 20 µL          |
| Storage Temperature           | -25°C to -15°C |
| Lot Number                    | 66179184       |
| Reference Number              | 031121         |
| Expiration Date               | 03/31/2022     |

**Product Description:**

qScript cDNA SuperMix is a 5X concentrated, sensitive, and easy-to-use 1-tube reagent for first-strand cDNA synthesis that combines a highly-modified RNase H+ mutant of M-MLV together with ribonuclease inhibitor protein (RIP) in a rigorously optimized formulation for real-time qPCR applications. The stabilized SuperMix formulation has been rigorously optimized to deliver sensitive, linear assay performance across a spectrum of relative abundance and input RNA (10pg - 1ug). qScript cDNA SuperMix reagent performance is unaffected by repetitive freeze/thaw cycling (>20X), conferring greater ease-of-use and consistent assay performance. Oligo (dT) and random primers are pre-blended in a precise ratio to provide equal representation of 5' and 3'-sequences for accurate gene expression quantification.

**Component Part Numbers:**

84035 qScript cDNA SuperMix, 1000 µL

| Product Specifications |                                     |       |       |
|------------------------|-------------------------------------|-------|-------|
| 95048                  |                                     |       |       |
| Assay                  | cDNA SuperMix Functional qPCR Assay | DNase | RNase |
| Result                 | 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.

**cDNA SuperMix Functional qPCR Assay:** First-strand synthesis is performed on a 10-fold serial dilution over 6 orders of dynamic range (1 µg to 1 pg) using a Universal Reference total RNA preparation. One tenth of each first strand reaction is used as template for real-time PCR of a reference gene in duplicate reactions. Cq standard curve analysis must have coefficient of determination ( $r^2$ )  $\geq 0.990$  with a slope between  $-3.20$  and  $-3.70$ .

**Limitations of Use**

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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.

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