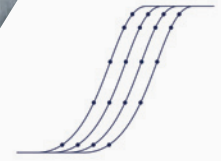


# AzuraQuant™ cDNA Synthesis Kit



## High quality qPCR-ready cDNA - Your Way

The AzuraQuant™ cDNA Synthesis Kit provides a rapid and sensitive method for generating high quality, qPCR-ready first-strand cDNA for use in downstream real-time PCR. The AzuraQuant™ cDNA Synthesis Kit exhibits highly reproducible, unbiased synthesis and representation of 5' and 3' mRNA ends. The kit was developed to provide consistent linearity across a wide range of input RNA, revealing accurate relative cDNA representation, regardless of gene abundance.

HighTherm™ reverse transcriptase which provides exceptional thermostability is blended with a potent RNase inhibitor to ensure high integrity of Total RNA starting material. The AzuraQuant™ cDNA Synthesis Kit is supplied with a high-performance 5x cDNA buffer system including an optimized ratio of random hexamer primers and anchored oligo (dT) primers which delivers unbiased, efficient and sensitive cDNA synthesis. The AzuraQuant™ cDNA Synthesis Kit delivers both highly efficient first-strand synthesis and higher cDNA yields. This leads to enhanced reproducibility and data accuracy, providing an ideal chemistry for success with limited starting material, such as tissue biopsies. The Kit is supplied in a convenient, two-tube format comprised of a 5x cDNA Buffer and 20x HighTherm™ reverse transcriptase.

### Applications

- 2-step RT-qPCR
- 2-step RT-PCR

### Convenient

Two-tube format and simple 40 minute protocol

### Unbiased, sensitive cDNA synthesis

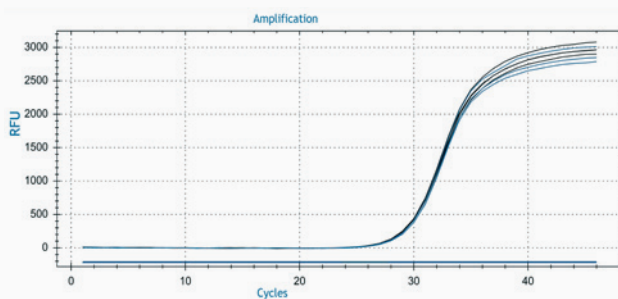
Complete 5' to 3' RNA sequence representation from 4 pg to 0.5 µg Total RNA

### Reproducible

HighTherm™ reverse transcriptase coupled with an optimized 5x cDNA Buffer system generates consistent, high-yield qPCR-ready cDNA

### Broad dynamic range

Optimized for dilute and low-copy input RNA



**Fig 2. Unbiased cDNA synthesis of 5' and 3' mRNA ends with AzuraQuant™ cDNA Synthesis Kit which was used to synthesize cDNA from mouse liver total RNA.**

2 primer pairs were designed against the 5' (blue traces) and the 3' (black traces) ends of a 4kb mouse transcript. In the subsequent qPCR, the amplification traces overlap indicating unbiased reverse transcription spanning the entire sequence.

Products	Pack Size	Catalog No.	Price
AzuraQuant™ cDNA Synthesis Kit	25 Reactions	AZ-1995	\$89
AzuraQuant™ cDNA Synthesis Kit	100 Reactions	AZ-1996	\$299
AzuraQuant™ cDNA Synthesis Kit	1250 Reactions	AZ-1995-50	\$2995