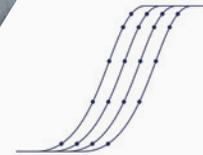


AzuraFlex™ cDNA Synthesis Kit



High quality qPCR-ready cDNA - Your Way

The AzuraFlex™ cDNA Synthesis Kit is a complete and flexible system for efficient synthesis of first strand cDNA from Total RNA or mRNA templates. The MMLV-derived reverse transcriptase (High Capacity RTase) is modified for improved performance with challenging templates, capable of synthesizing cDNA up to 9Kb. The reverse transcriptase is blended with a potent RNase inhibitor for stability and greater reproducibility with challenging samples which may contain contaminants. The supplied 5x RTase buffer includes optimal levels of dNTPs and MgCl₂ to reduce pipetting steps and experimental variance.

Applications

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

Flexible

Supplied in a four component kit format, including High Capacity Reverse Transcriptase, 5x RTase Buffer and separate solutions of random hexaprimers and oligo(dT) primers to allow flexible assay design.

Sensitive cDNA synthesis from broad range of input RNA

High-performance cDNA synthesis from 10 pg to 2.0 µg Total RNA.

Cost-effective

Low-cost option for generation of high-quality qPCR-ready cDNA

Broad dynamic range

10-fold greater dynamic range than competitor kits

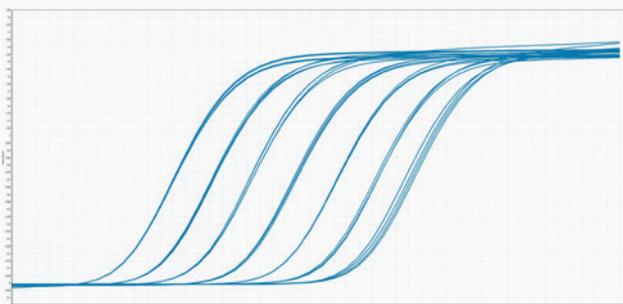
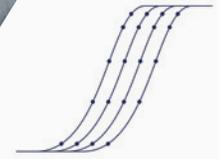


Fig 1. Broad Dynamic Range with AzuraFlex cDNA Synthesis Kit.

A 10-fold serial dilution of mouse total RNA was used for seven cDNA synthesis reactions (with starting material ranging from 2µg Total RNA). Subsequently, each cDNA synthesis reaction was used as a template for qPCR in which a 70bp fragment was amplified (mouse RN18S gene).

Products	Pack Size	Catalog No.	Price
AzuraFlex™ cDNA Synthesis Kit	200 Reactions	AZ-1997	\$285
AzuraFlex™ cDNA Synthesis Kit	1000 Reactions	AZ-1998	\$995

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

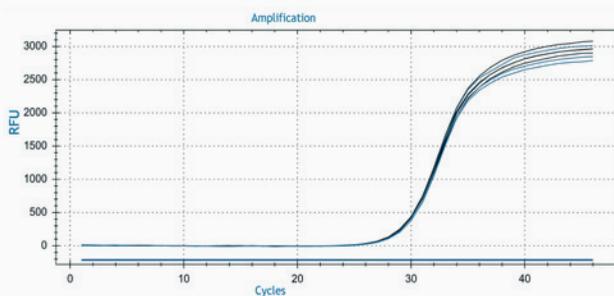


Fig 2. Unbiased cDNA synthesis of 5' and 3' mRNA ends with AzuraQuant™ cDNA Synthesis Kit which was used to synthesize cDNA from mouse liver total RNA.

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