ZYAGEN

Data Sheet

Human Kidney cDNA

Catalog #: HD-901

Quantity: 30 Reactions

Storage Conditions: Store at -20oC. It is good for one year of the date of purchase if stored properly.

Applications: The cDNA is primed with oligo dT primer and is ideal for gene expression analysis by PCR, characterization of alternative splicing of mRNA, and Gene cloning and target sequencing.

Quality Control: The PCR-Ready cDNA is functionally tested with the control primers in the recommended PCR reaction.

Description: The PCR-ready first strand cDNA is synthesized from high quality RNA isolated from adult human normal healthy tissues. Total RNA used for cDNA synthesis is isolated by modified guanidine thiocyanate techniques and treated with RNase-free DNase. The total RNA was primed with oligo dT primer and reverse transcribed by a reverse transcriptase enable synthesis of full length cDNA up to 8.9kb. Use µl cDNA for each PCR reaction.

The amplification conditions used for amplification of beta-actin as a positive control in a volume of 100µl:

cDNA	1µl
10X polymerase reaction buffer	10µl
$MgCl_2$, 25mM (2nM final)	7.8µl
Nucleotide Mix, 10mM (0.2mM final)	2.0µl
Upstream beta-Actin primer (100µM)	1µl
Downstream beta-Actin primer (100µM)	1µl
Taq Polymerase (5 units)	1µl
Water	76.2µl
	100µl

Program of amplification:

Denaturation	94^{o}c for 2 minutes
25 cycles:	
Denaturation	94^{o}c for 1 minute
Annealing	60^{o}c for 1 minute
Extension	72^{o}c for 2 minutes
Final extension	72^{o}c for 5 min
Hold	4^{o}c

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