



## Monkey Cyno Tissue cDNA

**Catalog #:** KD-401

**Quantity:** 30 Reactions

**Storage Conditions:** Store at -20°C. 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 monkey (cynomolgus) testis tissue. 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  $\mu$ l cDNA for each PCR reaction.

The amplification conditions used for amplification of beta-actin as a positive control in a volume of 100 $\mu$ l:

cDNA	1 $\mu$ l
10X polymerase reaction buffer	10 $\mu$ l
MgCl <sub>2</sub> , 25mM (2nM final)	7.8 $\mu$ l
Nucleotide Mix, 10mM (0.2mM final)	2.0 $\mu$ l
Upstream beta-Actin primer (100 $\mu$ M)	1 $\mu$ l
Downstream beta-Actin primer (100 $\mu$ M)	1 $\mu$ l
<i>Taq</i> Polymerase (5 units)	1 $\mu$ l
Water	<u>76.2<math>\mu</math>l</u>
	100 $\mu$ l

**Program of amplification:**

Denaturation            94°C for 2 minutes

25 cycles:

Denaturation            94°C for 1 minute

Annealing                60°C for 1 minute

Extension                72°C for 2 minutes

Final extension        72°C for 5 min

Hold                        4°C