

*Data Sheet***Human Bone Marrow cDNA, Random Primer****Catalog #:** HD-704-HR**Quantity:** 30 Reactions**Storage Conditions:** Store at -20°C. It is good for one year from the date of purchase if stored properly.**Applications:** The cDNA is primed with Random 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 freshly collected human bone marrow. 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 μ l cDNA for each PCR reaction.The amplification conditions used for amplification of beta-actin as a positive control in a volume of 100 μ l:

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

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