

# Recombinant Mouse Telomerase Reverse Transcriptase

Cat. No. Tert-574M Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse telomerase reverse transcriptase is expressed in <i>E. coli</i> . TERT encoding 174-341 amino acids. The molecular weight of the recombinant Tert is 46 kDa.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>ProteinLength</b>	174-341 a.a.
<b>Description</b>	Telomeres are specialized structures at the ends of eukaryotic chromosomes which appear to function in chromosome stabilization, positioning and replication. At each cell division, the length of telomeric TTAGGG DNA repeats is shortened and cells ultimately stop dividing. Telomerase is a reverse transcriptase that synthesizes telomere DNA thereby compensating for telomere loss. Telomerase is expressed mainly in the nucleus of proliferating cells and lymphocytes.
<b>Purity</b>	>90%.
<b>Physical Appearance</b>	Sterile filtered liquid.
<b>Formulation</b>	Telomerase protein at 100µg/ml in 50mM Tris-Acetate, pH-7.5, 1mM EDTA and 20% Glycerol.
<b>Storage</b>	Store vial at -20°C to -80°C. When stored at the recommended temperature, this

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protein is stable for 12 months. Please avoid freeze-thaw cycles.

## GENE INFORMATION

<b>Gene Name</b>	Tert telomerase reverse transcriptase [ <i>Mus musculus</i> ]
<b>Synonyms</b>	telomerase reverse transcriptase; Tert; TR; TP2; TRT; EST2; TCS1; hEST2; MGC150124; telomerase catalytic subunit; telomerase-associated protein 2
<b>Gene ID</b>	21752
<b>mRNA Refseq</b>	NM_009354
<b>Protein Refseq</b>	NP_033380
<b>UniProt ID</b>	O14746
<b>Chromosome Location</b>	13 C1
<b>Function</b>	nucleotidyltransferase activity; DNA binding; RNA binding; protein binding; RNA-directed DNA polymerase activity; telomerase activity; telomeric template RNA reverse transcriptase activity; transferase activity

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