

Product datasheet for **SC207504**

Telomerase reverse transcriptase (TERT) (NM_198255) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	Telomerase reverse transcriptase (TERT) (NM_198255) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	TERT
Synonyms:	EST2; hEST2; TCS1; telomerase catalytic subunit; telomerase reverse transcriptase; TP2; TRT
ACCN:	NM_198255
Insert Size:	591 bp
Insert Sequence:	>SC207504 3'UTR clone of NM_198255

The sequence shown below is from the reference sequence of NM_198255. The complete sequence of this clone may contain minor differences, such as SNPs.

Blue=Stop Codon Red=Cloning site

```
GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
CCCTCAGACTTCAAGACCATCCTGGACTGATGGCCACCCGCCACAGCCAGGCCAGAGCAGACACCAG
CAGCCCTGTACAGCCGGGCTCTACGTCCCAGGGAGGGCGGCCACACCCAGGCCCGCACCCTG
GGAGTCTGAGGCCTGAGTGAGTGTGGCCGAGGCTGCATGTCCGGCTGAAGGCTGAGTGTCCGGCTG
AGGCCTGAGCGAGTGTCCAGCAAGGGCTGAGTGTCCAGCACACCTGCCGTCTTCACTTCCCCACAGGC
TGGCGCTCGGCTCCACCCAGGGCCAGCTTTTCTCACCAGGAGCCGGCTTCCACTCCCCACATAGGA
ATAGTCCATCCCCAGATTGCGCATTGTTACCCCTCGCCCTGCCCTCCTTGCCTTCCACCCACCAT
CCAGGTGGAGACCCTGAGAAGGACCCTGGGAGCTCTGGGAATTTGGAGTGACCAAAGGTGTGCCCTGTA
CACAGGCGAGGACCCTGCACCTGGATGGGGTCCCTGTGGGTCAAATGGGGGGAGGTGCTGTGGGAGT
AAAATACTGAATATATGAGTTTTTCAGTTTTGAAAAAA
ACGCGTAAGCGGCCGCGCATCTAGATTGAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
```

Restriction Sites:	Sgfl-MluI
OTI Disclaimer:	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).
Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.



[View online »](#)

RefSeq: [NM_198255.2](#)

Summary: Telomerase is a ribonucleoprotein polymerase that maintains telomere ends by addition of the telomere repeat TTAGGG. The enzyme consists of a protein component with reverse transcriptase activity, encoded by this gene, and an RNA component which serves as a template for the telomere repeat. Telomerase expression plays a role in cellular senescence, as it is normally repressed in postnatal somatic cells resulting in progressive shortening of telomeres. Deregulation of telomerase expression in somatic cells may be involved in oncogenesis. Studies in mouse suggest that telomerase also participates in chromosomal repair, since de novo synthesis of telomere repeats may occur at double-stranded breaks. Alternatively spliced variants encoding different isoforms of telomerase reverse transcriptase have been identified; the full-length sequence of some variants has not been determined. Alternative splicing at this locus is thought to be one mechanism of regulation of telomerase activity. [provided by RefSeq, Jul 2008]

Locus ID: 7015

MW: 21.5