

Product datasheet for **SC204287**

Topoisomerase II beta (TOP2B) (NM_001068) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	Topoisomerase II beta (TOP2B) (NM_001068) Human 3' UTR Clone
Symbol:	Topoisomerase II beta
Synonyms:	top2beta; TOPIIB
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_001068
Insert Size:	449 bp
Insert Sequence:	>SC204287 3'UTR clone of NM_001068 The sequence shown below is from the reference sequence of NM_001068. The complete sequence of this clone may contain minor differences, such as SNPs. Blue =Stop Codon Red =Cloning site

```
GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
GATGATGTTGATTTTGAATGTTAATTAAGTGCCCAAAGAGCACAAACATTTTTCAACAAATATCTTG
TGTTGCTCTTTGTCTTCTGTCTCAGACTTTGTACATCTGGCTTATTTAATGTGATGATGTAATT
GACGGTTTTTATTATTGGTAGGCCTTTAACATTTTGTCTTACACATACAGTTTTATGCTCTTTT
TTACTCATTGAAATGTCACGTACTGTCTGATTGGCTTGTAGAATTGTTATAGACTGCCGTGCATTAGCA
CAGATTTTAATTGCATGGTTACAAACTACAGACCTGCTTTTGAATGAAATTTAAACATTAATAATG
GAACTGTGTTCTGTCTCTTTACTGAAGATAAAGGTGTAGTAAAAGCTCCACACACCTTTAAATAA
ATATATTTTATTCTTTGCAAAAAAAAAAAAAAAAAA
ACGCGTAAGCGGCCGCGGCATCTAGATTGAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA
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_001068.3](#)

Summary: This gene encodes a DNA topoisomerase, an enzyme that controls and alters the topologic states of DNA during transcription. This nuclear enzyme is involved in processes such as chromosome condensation, chromatid separation, and the relief of torsional stress that occurs during DNA transcription and replication. It catalyzes the transient breaking and rejoining of two strands of duplex DNA which allows the strands to pass through one another, thus altering the topology of DNA. Two forms of this enzyme exist as likely products of a gene duplication event. The gene encoding this form, beta, is localized to chromosome 3 and the alpha form is localized to chromosome 17. The gene encoding this enzyme functions as the target for several anticancer agents and a variety of mutations in this gene have been associated with the development of drug resistance. Reduced activity of this enzyme may also play a role in ataxia-telangiectasia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2016]

Locus ID: 7155

MW: 17.2