

Product datasheet for **SC127952**

TOP3B (NM_003935) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TOP3B (NM_003935) Human Untagged Clone
Tag:	Tag Free
Symbol:	TOP3B
Synonyms:	TOP3B1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_003935, the custom clone sequence may differ by one or more nucleotides

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ATGAAGACTGTGCTCATGGTTGCTGAAAAGCCGTCCTTGGCACAGTCAATTGCCAAAATCCTCTCTAGAG
GGAGCCTGTCTCACACAAAGGGCTGAACGGGGCCTGCTCAGTCCACGAGTACACTGGGACCTTTGCTGG
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CCAAGCTGAACATGGTGAAGTTCCTGCAGGTGGAGGGCAGAGGCTGCGACTACATCGTGCTGTGGCTGGA
CTGCGACAAGGAGGGGAGAACATCTGCTTTGAGGTTCTTGATGCTGTTCTGCCCGTCATGAACAAGGCC
CATGGTGGCGAGAAGACCGTGTTCGGGGCAGGTTTGTCTCCATCACGGACACAGACATCTGTAATGCCA
TGGCCTGCCTAGGCGAGCCTGACCACAACGAGGCGCTCTCAGTGGATGCTCGCCAGGAGCTGGACCTGCG
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CCTTCAAACCAGAGACCTACTGGGTGCTGCAGGCCAAGGTTAACACTGACAAAGACAGATCTCTCCTTTT
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CACCAACCTCGGCATCGTCTGGTGCACGGCTACTATAAGATTGATGCAGAGCTGGTGTCTCCACCACATC
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CCCCCTGGGAAGCCCAACCCAGACGGCCAAGGACAAGATGTCAGCCCTGGCCGCTACTTTGTATGA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_003935 unedited GAGTCTAAACTTTTTTCATTGCCAGTGCCCCGAACTGGAGTGTGAAGGACCGAGACAAAA TGAAGACTGTGCTCATGGTTGCTGAAAAGCCGTCCTTGGCACAGTCAATTGCCAAATCC TCTCTAGAGGGAGCCTGTCTCACACAAAGGGCTGAACGGGGCCTGTCTAGTCCACGAGT ACACTGGGACCTTTGCTGGCCAGCCAGTGCCTTCAAGATGACGTCTGTCTGTGGTCAG TGATGACCCTGGATTTCTGGGAAAATACAACAAATGGGACAAAGTGGACCCCGCAGAAC TGTTCAAGCAAGCTCCCACGGAGAAGAAAGAAGCTAACCCCAAGCTGAACATGGTGAAGT TCCTGCAGGTGGAGGGCAGAGGCTGCGACTACATCGTGTGTGGCTGGACTGCGACAAGG AGGGGGAGAACATCTGCTTTGAGTTCTTGATGCTGTTCTGCCCGTCATGAACAAGGCC ATGGTGGCGAGAAGACCGTGTTCGGGGCAGGTTTAGCTCCATCACGGACACAGACATCT GTAATGCCCTGGCCTGCCTAGGCGAGCCTGACCACAACGAGGCGCTCTCAGTGGATGCTC GCCAGGAGCTGGACCTGCGAATCGGCTGGGCATTCCCAAGTTTCAGACTAAATTTTTTCAG GGGAAAATCGTGATTTAAACGGCTCTTCATTTCTTTGGGCGTGTCAACTCACCCCTGGG ATCTGGGGGGAGAACATGAAAAATCCAGTCTTAAACCAAAACCTATGGGTCTGCAGGCC AGGTAAACTGGCAAGACGATTCTTCTTGACGGGCCGG</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' genomic read for NM_003935 unedited ACCGCGGCCGCATCTAAATTTTTTTTTTTTTTTTTTCAAAAAAATGTTTTAATATATGAT ATTAATATATTACCTTTATAACCAATGCCGTTGGAAAGTATAATTTTTTAAATGGAGGAT GGGGCACCAGATCTTATGTGGCTCTGCCACCTGACCTTCAGGTCGCAGGCCTGTGTCC TTGCCAGGAATGAATGTCTCTGGGATGCTTCTCTAACAGGAGGAACCTGGAGTGAGACCA GGAACCTGGAGAAGTACGAGCTGGGTGACTGAAAGGAAACCATCTGGGGTGGGGTTGGG TCTGCAAGGCAGGAGGTGTCTGGCAGAGAAAGCAGGGCTGGGGCGGAGGTCCTGCCTA ATCCCATTCTCCTGCTCACTCTTTCCTAGACCCCTGTCAGGGCATTATCCATGATCAAGG CCTGAGGCTACTTTTTATAAACAGCGTTCCTGGGCCCTCCCTTAGCCTACCCTGACCT ATTTCTTGACGAACATACCTTCTATTTACCTCCCCCTCCATCTCAGCGGTTTCGCTCC ATACCCCGCCTCCCGTCTCTATCCCCTCCTGTTTCTTCTTACCCACTGTCTTCGCTT CTTCTGTCTACCCCTCAACCTGCCGGTCTCTCGCGCCTAGCCTTCCCTTCTCCATCTC CTTCTCCTCCGTCCTTCTCTATTCTTCCCTTCCATCCCCCACTTTTCTCCCTTCCCTTC CTACCATCTCCCTTCTTCCCCCTTCTATTCCCCTTTTTTTTTTTCTCCCTTCCCTCC CTTTTCTTTTTCTCCTTCTCCCCCCCCCACTTCCCTCTCCTTTTCCCTTCTTTA TTCCCCTCTCTCCCCGCTTTTTCCCCCCCCATCCTCCTTTTTATTACCTCCCCCTACC CCCCCTCCGCTCCTGTTCCAGTCTACTACTACCCCATCTTCCCTCTCTGTCTTTCC T</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_003935
Insert Size:	3700 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_003935.3 , NP_003926.1
RefSeq Size:	3124 bp
RefSeq ORF:	2589 bp
Locus ID:	8940
UniProt ID:	O95985
Cytogenetics:	22q11.22
Domains:	Topoisom_bac, TOP1Bc, TOP1Ac, TOPRIM, Toprim
Protein Pathways:	Homologous recombination
Gene Summary:	<p>This gene encodes a DNA topoisomerase, an enzyme that controls and alters the topologic states of DNA during transcription. This enzyme catalyzes the transient breaking and rejoining of a single strand of DNA which allows the strands to pass through one another, thus relaxing the supercoils and altering the topology of DNA. The enzyme interacts with DNA helicase SGS1 and plays a role in DNA recombination, cellular aging and maintenance of genome stability. Low expression of this gene may be related to higher survival rates in breast cancer patients. This gene has a pseudogene on chromosome 22. Alternate splicing results in multiple transcript variants. Additional alternatively spliced transcript variants of this gene have been described, but their full-length nature is not known. [provided by RefSeq, Aug 2013]</p> <p>Transcript Variant: This variant (1) represents the longest transcript. Variants 1-5 encode the same protein (isoform 1).</p>