

## Product datasheet for **SC337597**

### TOP3B (NM\_001282112) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TOP3B (NM_001282112) Human Untagged Clone
Tag:	Tag Free
Symbol:	TOP3B
Synonyms:	TOP3B1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001282112, the custom clone sequence may differ by one or more nucleotides

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ATGAAGACTGTGCTCATGGTTGCTGAAAAGCCGTCCTTGGCACAGTCAATTGCCAAAATCCTCTCTAGAG
GGAGCCTGTCTCACACAAAGGGCTGAACGGGGCCTGCTCAGTCCACGAGTACACTGGGACCTTTGCTGG
CCAGCCAGTGCCTTCAAGATGACGTCTGTCTGTGGTCACGTGATGACCCCTGGATTTCTGGGAAAATAC
AACAAATGGGACAAAGTGGACCCCGCAGAAGTGTTCAGCCAAGCTCCACGGAGAAGAAAGAAAGCTAAC
CCAAGCTGAACATGGTGAAGTTCCTGCAGTGGAGGGCAGAGGCTGCGACTACATCGTGCTGTGGCTGGA
CTGCGACAAGGAGGGGAGAACATCTGCTTTGAGGTTCTTGATGCTGTTCTGCCCGTCATGAACAAGGCC
CATGGTGGCGAGAAGACCGTGTTCGGGGCAGGTTTAGCTCCATCACGGACACAGACATCTGTAATGCCA
TGGCCTGCCTAGGCGAGCCTGACCACAACGAGGCGCTCTCAGTGGATGCTCGCCAGGAGCTGGACCTGCG
AATCGGCTGTGCATTACCAGGTTTCAGACTAAATATTTCCAGGGGAAAACGGTGATTTAGACAGCTCT
CTCATCTCCTTTGGGCCGTGTCAGACTCCAACCCTGGGATTTCTGTGTGGAGAGACATGATAAAATCCAGT
CCTTCAAACCAGAGACCTACTGGGTGCTGCAGGCCAAGGTTAACACTGACAAAGACAGATCTCTCCTTTT
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AAGGAAGCCCAGGTGGAGGCCACAAGCAGGAAAAGAAAAGGCCAAGCAGAGGCCCTTGCCCTGAACACTG
TGGAGATGCTGCGTGTGGCCAGCTTTCTCTGGGCATGGGGCCGACGACGCCATGCAGACGGCTGAGCG
GCTCTACACGCAAGGCTACATCAGCTACCCACGGACAGAGACCACCCACTACCCTGAGAAGTTTGACCTG
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GTATCAACCGCCCGGAAAGGCCATGACGCGGGCACCATCCCCCATCACCCCATGAAGTCTGCCAC
AGAGGCCGAATTAGGGGGTGACGCGTGGCGCTCTATGAGTACATCACCAGACACTTCATCGCCACGGTC
AGCCATGACTGCAAGTACCTGCAGAGCACCATCTCCTTCAGAATTGGGCCCGAGCTCTTACCTGCTCCG
GGAAAGACCGTCTCTCACCAGGTTTACGAGGTCATGCCCTGGCAGAGCGTGGCCCTGGAGGAGAGCCT
GCCCACTTGCCAGCGGGGTGATGCCTTCCCTGTGGCGAGGTGAAGATGCTGGAGAAGCAGACGAACCCA
CCCGACTACCTGACGGAGCCGAGCTCATCAGCTCATGGAGAAGCATGGCATCGGCACGGATGCCAGCA
TCCCTGTGCATATCAACAACATCTGCCAGCGCAACTATGTACGGTGGAGAGCGGGCGCCGGCTCAAGCC
CACCAACCTCGGCATCGTCTGGTGCACGGCTACTATAAGATTGATGCAGAGCTGGTGTCTCCACCACATC
CGCAGTGCAGTGGAGAAGCAGCTGAACCTGATCGCCAGGGCAAGGCCGACTACCGCCAGGTCTGGGCC
ACACCCTGGACGTGTTCAAGAGGAAGTTCCTACTTTGTGACTCCATTGCTGGCATGGATGAGTTGAT
GGAGGTGCTTTTCTCGCCCTGGCGGCCACAGGCAAGCCCTCTCACGCTGTGGGAAGTCCACCGCTTC
ATGAAGTACATCCAGGCCAAGCCAAGCCGCTGCACTGCTCCACTGCGATGAGACCTACACGCTCCCC
AGAACGGCACCATCAAGCTCTACAAGGAGCTCCGCTGCCCTCTGGATGACTTCGAGCTGGTCTGTGGTC
ATCAGGCTCTCGGGGCAAGAGCTACCCGCTGTGCCCTACTGCTACAACCACCCACCTTCCGAGACATG
AAGAAAGGCATGGGCTGCAACGAGTGTACGCACCCCTCCTGCCAGCACTCGTGAGCATGCTGGGCATCG
GCCAGTGCCTGGAATGTGAGAGCGGGGTGCTGGTGTGGACCCACCTCGGGCCCCAAGTGAAGGTGGC
CTGCAACAAGTGAACGTGGTAGCGACTGCTTCGAGAACGCCACCGCTGCGGGTGTCCGCCGACACC
TGCACTGTCTGTGAGGCCGCTTGTGTTGATGTGGACTTCAACAAGGCCAAGTCCCACTCCCGGGCGATG
AGACGCAACATGGGCTGCGTCTTTGTGACCCGCTTCCAGGAGCTGGTGGAGCTGAAGCATGCGGG
CTCCTGCCACCCATGCACCGCGGTGGACCAGGAGAAGGCAGGGTTCGAGGGCGGGGCCGGCCAGGAGG
CCCCCTGGGAAGCCCAACCCAGACGGCCAAGGACAAGATGTCAGCCCTGGCCGCTACTTTGTATGA
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**Restriction Sites:**

Sgfl-RsrII

**ACCN:**

NM\_001282112

**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).

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001282112.1</a></u> , <u><a href="#">NP_001269041.1</a></u>
<b>RefSeq Size:</b>	2908 bp
<b>RefSeq ORF:</b>	2589 bp
<b>Locus ID:</b>	8940
<b>UniProt ID:</b>	<u><a href="#">O95985</a></u>
<b>Cytogenetics:</b>	22q11.22
<b>Protein Pathways:</b>	Homologous recombination
<b>Gene Summary:</b>	<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 (2) contains an alternate 5' terminal exon compared to variant 1. Variants 1-5 encode the same protein (isoform 1).</p>