

Product datasheet for **SC126339**

TOP1MT (NM_052963) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TOP1MT (NM_052963) Human Untagged Clone
Tag:	Tag Free
Symbol:	TOP1MT
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene sequence for NM_052963 edited
 GGCAGATGCGCGTGGTGC GGCTGCTGCGGCTCCGGGCGGCTCTGACGCTGCTCGGGGAGG
 TCCCCCGCCGCCCGCTCCCGGGTGTCCCGGGCTCGCGCAGGACGCAGAAGGGCAGTG
 GAGCCAGTGGGAGAAGGAGAAGCACGAAGACGGGGTGAAGTGGAGACAGCTGGAGCACA
 AGGGCCGTACTTCGCACCCCATACGAGCCCTTCCCGACGGAGTGCCTTTCTTCTATG
 AAGGAAGCCGTGTGAGATTGAGCGTGGCAGCGGAGGAGGTGCCACTTTTTATGGGAGGA
 TGTTAGATCATGAATACACAACAAGGAGTTTTCCGGAAGAATTCTTCAATGACTGGC
 GAAAGGAAATGGCGGTGGAAGAGAGGGAAAGTCATCAAGAGCCTGGACAAGTGTGACTTCA
 CGGAGATCCACAGATACTTTGTGGACAAGGCCGACGCCGAAAGTCTGAGCAGGGAGG
 AGAAGCAGAAGCTAAAAGAAGAGGCAGAAAAACTTCAAGAGTTCGGCTACTGTATTT
 TAGATGGTACCAAGAAAAATAGGCAACTTCAAGATTGAGCCGCTGGCTTGTCCGTG
 GCCGTGGCAGCATCCCAAGATGGGGATGCTGAAGAGAAGGATCACGCCAGAGGATGTGG
 TTATCAACTGCAGCAGGACTCGAAGATCCCCGAGCCCGCGGGGCACCAGTGAAGG
 AGGTGCGCTCCGATAACACCGTACGTGGCTGGCAGCTTGGACCGAGAGCATTCAAGT
 CCATCAAGTACATCATGTGAACCTTGTCTGAAGCTGAAGGGGAGACAGCTTGGCAGA
 AGTTTGAACAGCTCGACGCTCGCGGGATTTGTGGACGAGATCCGCTCCAGTACCGGG
 CTGACTGGAAGTCTCGGAAATGAAGACGAGACAGCGGGCGGTGGCCCTGTATTTTCATCG
 ATAAGCTGGCACTGAGAGCAGGAAATGAGAAGGAGGACGGTGAAGCGCCGACACCGTGG
 GCTGCTGTTCCCTCCGGTGGAGCACGTCCAGCTGCACCCGAGGCGCATGGCTGCCAAC
 ACGTGGTGAATTTGACTTCTGGGGAAGGACTGCATCCGCTACTACAACAGAGTGGCGG
 TGGAGAAGCCGGTGTACAAGAATTACAGCTCTTTATGGAGAACAAGACCCCGGGACG
 ACCTCTTCGACAGGCTGACCACGACAGCCTGAACAAGCACCTCCAGGAGCTGATGGACG
 GGCTGACGGCCAAGGTGTTCCGGACCTACAACGCTCCATCACTGTCAGGAGCAGCTGC
 GGGCCCTGACGCGCGCCGAGGACAGCATAGCAGCTAAGATCTTATCTTACAACCGAGCCA
 ACCGAGTCTGGCCATTCTCTGCAACCATCAGCGAGCAACCCCAAGTACGTTTCGAGAAGT
 CGATGCAGAATCTCCAGACGAAGATCCAGGCAAAGAAGGAGCAGGTGGCTGAGGCCAGGG
 CAGAGCTGAGGAGGGCGAGGGCTGAGCACAAGCCCAAGGGGATGGCAAGTCCAGGAGTG
 TCCTGGAGAAGAAGAGGGGCTCCTGGAGAAGTGCAGGAGCAGCTGGCGCAGCTGAGTG
 TGCAGGCCACGGACAAGGAGGAGAACAAGCAGGTGGCCCTGGGCAGTCCAAGTCAACT
 ACCTGGACCCAGGATCAGCATTGCCTGGTGAAGCGGTTCAAGGTGCCAGTGGAGAAGA
 TCTACAGCAAAACACAGCGGGAGAGGTTGCCTGGGCTCTCGCCATGGCAGGAGAAGACT
 TTGAATCTAACGACGAGCCGTGTTGAACTTCTTTTGTATGTGTGTGTTTTTTTTCAC
 TATTAAGCAGTACTGGGAATTTTGTACAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
 AAAAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_052963 unedited
 TTTAGTCAGAATTGTATACGACTACTATAGGCGGCCGGAATTCGCACGAGGGCAGAT
 GCGCGTGGTGC GGCTGCTGCGGCTCCGGGCGGCTCTGACGCTGCTCGGGGAGTCCCCCG
 CCGCCCGCCTCCCGGGTGTCCCGGGCTCGCGCAGGACGCAAAATGGCAGTGGAGCCAG
 GTGGGAGAAGGAGAAGCAGCAATACGGGGTGAAGTGGAGACAGCTGGAGCACAAGGGCCC
 GTACTTCGCACCCCATACGAGCCCTTCCCGACGGAGTGCCTTTCTTATGAAGGAAG
 GCCTGTGAGATTGAGCGTGGCAACGGAGGAGTGCCTACTTTTATGGGAGGATGTTAGA
 TCATGAATACACAACAAGGAGGTTTTCCGGAAGAATTCTTCAATGACTGGCAGAAAGGA
 AATGGCGGTGGAAGAGAGGGAAGTCATCAAGAGCCTGGACAAGTGTGACTTACGGAGAT
 CCACAGATACTTTGTGGACAAGGCCGACCCGAAAGTCTGAGCAGGGAGGAGAAGCA
 CAAGCTAAAAGAAGAGGCAGAAAAACTTCAAGATTGAGCCGCTGGCTTGTTCGGTGGCCGTGG
 CGACCATCCCAAGATGGGGATGCTGAAGAGTAGGATCACGCCAGAGGATGTGGTTATCAA
 CTGCAGCAGGCACTCGAAGATCCCCGAGCCCGCGGGCCGACCACTGGAAGGGAGTGGC
 CTCCGATAACACCGTACGTGGCTGGCAGCTTGGACCGAGAGCATTCAAGACTCCATCAA
 GTACATCATGTGAACCTTGTCTGAAGCTGAAGGGGAGACAGCTTGGCANAAGTTTGA
 ACAGCTCGAGCC

Restriction Sites:	Please inquire
ACCN:	NM_052963
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_052963.1 , NP_443195.1
RefSeq Size:	1923 bp
RefSeq ORF:	1806 bp
Locus ID:	116447
UniProt ID:	Q969P6
Cytogenetics:	8q24.3
Protein Families:	Druggable Genome
Gene Summary:	<p>This gene encodes a mitochondrial DNA topoisomerase that plays a role in the modification of DNA topology. The encoded protein is a type IB topoisomerase and catalyzes the transient breaking and rejoining of DNA to relieve tension and DNA supercoiling generated in the mitochondrial genome during replication and transcription. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, May 2012]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1).</p>