

## Product datasheet for **SC332713**

### TOP1MT (NM\_001258446) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** TOP1MT (NM\_001258446) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** TOP1MT  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC332713 representing NM\_001258446.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGTTAGATCATGAATACACAACAAAGGAGGTTTTCCGGAAGAACTTCTTCAATGACTGGCGAAAGGAA
ATGGCGGTGGAAGAGAGGGAAAGTCATCAAGAGCCTGGACAAGTGTGACTTACGGAGATCCACAGATAC
TTTGTGGACAAGCCGCAGCCCGAAAGTCCTGAGCAGGGAGGAGAAGCAGAAGCTAAAAGAAGAGGCA
GAAAAACTTCAGCAAGAGTTCGGCTACTGTATTTAGATGGTACCAAGAAAAAATAGGCAACTTCAAG
ATTGAGCCGCCTGGCTTGTTCCTGGCCGTGGCGACCATCCCAAGATGGGATGCTGAAGAGAAGGATC
ACGCCAGAGGATGTGTTATCAACTGCAGCAGGGACTCGAAGATCCCCGAGCCCGCGGGCCACCAG
TGGAAGGAGGTGCGCTCCGATAACACCGTCACGTGGCTGGCAGCTTGGACCGAGAGCGTTTCAAGACTCC
ATCAAGTACATCATGCTGAACCTTGTCTCGAAGCTGAAGGGGAGACAGCTTGGCAGAAGTTTAAACA
GCTCGACGCTGCGGGGATTTGTGGACGAGATCCGCTCCCAGTACCGGGCTGACTGGAAGTCTCGGGAA
ATGAAGACGAGACAGCGGGCGGTGGCCCTGTATTTTCATCGATAAGCTGGCACTGAGAGCAGGAAATGAG
AAGGAGGACGGTGAAGCGGCCGACACCGTGGGCTGCTGTTCCCTCCGCGTGGAGCACGTCCAGCTGCAC
CCGGAGGCCGATGGCTGCCAACACGTGGTGAATTTGACTTCTGGGAAGGACTGCATCCGCTACTAC
AACAGAGTGCCGGTGGAGAAGCCGGTGTACAAGAACTTACAGCTCTTTATGGAGAACAAGGACCCCCGG
GACGACCTCTTCGACAGGCTGACCACGACCAGCCTGAACAAGCACCTCCAGGAGCTGATGGACGGGCTG
ACGGCCAAGGTGTTCCGGACCTACAACGCTCCATCACTCTGCAGGAGCAGCTGCGGGCCCTGACGCGC
GCCGAGGACAGCATAGCAGCTAAGATCTTATCCTACAACCGAGCCAACCGAGTCGTGGCCATTCTCTGC
AACCATCAGCGAGCAACCCCAAGTACGTTTCGAGAAGTCGATGCAGAATCTCCAGACGAAGATCCAGGCA
AAGAAGGAGCAGGTGGCTGAGGCCAGGGCAGAGCTGAGGAGGGCGAGGGCTGAGCACAAGCCCAAGGG
GATGGCAAGTCCAGGAGTGTCTGGAGAAGAAGAGGGCTCCTGGAGAAGTGCAGGAGCAGCTGGCG
CAGCTGAGTGTGAGGCCACGGACAAGGAGGAGAACAAGCAGGTGGCCCTGGGCAGTCCAAGCTCAAC
TACCTGGACCCAGGATCAGATTGCTTGGTGAAGCGGTTGAGGTGCCAGTGGAGAAGATCTACAGC
AAAACACAGCGGGAGAGGTTTCGCTGGGCTCTCGCCATGGCAGGAGAAGACTTTGAATCTAA
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**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001258446  
**Insert Size:** 1512 bp



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<b>OTI Disclaimer:</b>	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>	<a href="#">NM_001258446.1</a>
<b>RefSeq Size:</b>	2045 bp
<b>RefSeq ORF:</b>	1512 bp
<b>Locus ID:</b>	116447
<b>UniProt ID:</b>	<a href="#">Q969P6</a>
<b>Cytogenetics:</b>	8q24.3
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	58.6 kDa
<b>Gene Summary:</b>	<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 (2) differs in the 5' UTR, lacks a portion of the 5' coding region and initiates translation at a downstream, in-frame start codon, compared to variant 1. Variants 2 and 3 encode the same isoform (2), which has a shorter N-terminus compared to isoform 1.</p>