

## Product datasheet for MC224750

### Top2b (NM\_009409) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Top2b (NM\_009409) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Top2b  
**Synonyms:** D230016L12Rik; Top-2  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC224750 representing NM\_009409  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCAAGTCCAGCCTCGCGGGCTCTGACGGGGCGCTGACCTGGGTGAACAATGCTACAAAAAGGAAG  
 AGTTGGAGACAGCAAAACAAAAATGACTCTACTAAGAAGTTGTCTGTTGAGAGAGTGTACCAGAAGAAGAC  
 CCAACTGGAGCACATTCTCCTTCGTCCTGATACATACATTGGATCAGTGGAGCCACTGACACAGCTAATG  
 TGGGTGTATGATGAAGATGTAGGGATGAACTGCAGGGAGGTACCTTTGTTCCAGGCTTATACAAGATCT  
 TTGATGAAATTTTGGTTAATGCTGCTGACAACAAGCAGAGGGACAAAGAATGACCTGTATTAAGTTTC  
 TATTGATCCTGAATCTAATATTATAAGCATTGGAATAATGGGAAAGGCATTCCAGTAGTAGAACACAAA  
 GTAGAGAAAGTTTATGTTCTGCTTTAATTTTTGGACAGCTTTTAAACATCGAGTAATTATGACGATGATG  
 AGAAAAAGTTACAGGAGGCCGTAAATGGTTATGGTGCAAAGCTTTGTAATATTTTAGTACAAAGTTTAC  
 AGTAGAAACGGCTTGCAAAGAATACAAACATAGTTTTAAACAGACATGGATGAATAATATGATGAAGACT  
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 AATTTAAGATGGAAAACTTGACAAGGACATTGTGGCCCTCATGACCAGAAGAGCATATGATTTAGCTGG  
 GTCCTGTAAGGAGTCAAGGTCATGTTAATGGGAAGAAGTTGCCTGTAATGGATTTCCGAGCTATGTA  
 GACCTTTATGTGAAGACAAATTGGATGAACTGGGGTGGCTCTCAAAGTTATTCATGAAGTTGCAAATG  
 AAAGATGGGATGTTTGTCTAACCTTGAGTGAAAAAGGTTTCCAGCAGATCAGCTTTGTAATAGTATTGC  
 AACTACAAAAGGTGGCGGCATGTGGATTATGTAGTAGATCAAGTTGTTAGTAACTGATTGAAGTAGTT  
 AAGAAAAAGAACAAGCTGGTGTATCAGTGAAACCATTTAGGTTAAAAACCATATATGGGTTTTTATTA  
 ATTGCTTATTGAAAATCCAACCTTGATTCTCAAACCTAAGGAAAACATGACTCTGCAGCCAAAAGTTT  
 TGGGTCCAAATGCCAAGTGCAGAAAAATTTTTAAAGCAGCCTCTAATGTGGCATTGTAGAAAGCATA  
 TTGAAGTGGTGAATTTAAGGCTCAGACTCAACTGAATAAGAAGTGTTCATCAGTAAAGTACAGTAAAA  
 TCAAAGGCATTCCAAACTGGATGATGCCAATGATGCTGGTGGCAAACATTCCCTGGAGGTACATTAAT  
 ATTAACAGAGGGGACTCCGCCAAATCTCTAGCTGTATCTGGATTAGGTGTGATTGGTAGGGACAGATAT  
 GGAGTCTTCCCACTCAGGGGTAAAATTCTCAATGTACGAGAAGCCTCTCATAAACAGATTATGAAAAATG



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CAGAGATAAATAATATTATTAATAAGTTGGTTTGAATACAAGAAAAGTTATGATGATGCAGAATCTCT  
 GAAAACTTTACGTTATGGAAAGATTATGATTATGACTGATCAGGATCAAGATGGTCTCACATCAAAGGC  
 CTGCTAATCAATTTTATTCATCACAATTGGCCATCACTTTTGAAGCATGGTTTTCTTGAAGAATTCATTA  
 CTCCCATTGTAAGGCAAGCAAAAATAAGCAGGAACTTCTTTTATAGTATTCTGAATTTGATGAGTG  
 GAAAAACATATAGAAAACCAGAAAGCCTGGAAAAAAAGTACTACAAGGATTAGTACCAGTACCCT  
 AAAGAAGCAAAGGAATATTTTGTGATATGGAAGGCATCGCATTTTGTTAGATATGCTGGACCTGAAG  
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 CATTTGACATACAATGATTTTATCAACAAGGAATTGATCTCTTCTCAAACCTCGGACAATGAGAGATCTA  
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 TAAACGTGAAGTGAAGTAGCGCAGCTGGCTGGATCTGTTGCTGAGATGCTGCTACCACCATGGAGAA  
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 CTTGGTCAAGAACAGTATGCTGTTAGTGGTGAATATTTGTTGGTGGACAGAAAACACAGTAGAGATTACAG  
 AACTTCCAGTTAGAACATGGACACAGGTATACAAGGAGCAGGTCCTAGAACCTATGCTTAATGGAACAGA  
 TAAACACCGGCACTGATTTCTGATTACAAGAATATCATACTGACACAAGTGTGAAGTTTGTGGTGAAG  
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 TAGAGAATAGGTCAAAGAAAGATTTGATTCAAATGTTAGTCCAGAGAGGTTATGAATCTGACCCAGTGAA  
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 TCTGATTCAGGAACTCCTCAGGCCCTGATTTAATTATATTTAAATATGTCTCTATGGTCTTACTA  
 AAGAAAAAGTTGAAGAACTCATTAAACAGAGAGATACGAAAGGGCAGAGGTTAATGATCTCAAGAGGAA  
 GTCTCCTTCAGATCTTTGAAAGAAGACTTAGCAGCATTTGTTGAAGAATTGGATAAAGTGAAGCACAA  
 GAGCGGGAAGATATTCTGGCAGGAATGTCTGGAAAGCAATAAAGGTAAAGTCGGCAAACCCAAAGTAA  
 AGAACTTCAGCTGGAGGAGACAATGCCCTCGCCTTACGGGAGAAGAATTGTTCCAGAGATTACTGCTAT  
 GAAGGCAGATGCCAGCAGAAAATTGCTGAAGAAGAAAAGGGTGATCCTGATACCACAGTGTGAAAGTA  
 GAATTTGATGAAGAATTTAGTGGAAACACCAGCAGAAGGTACAGGAGAGGAGACATTGACCCCATCTGCTC  
 CTGTAATAAAGGCCCAAAACCAAAAGAGAGAAGAAGGAGCCTGGTACCAGGGTTAGAAAAACACCTAC  
 ATCAACTGGTAAACTAATGCGAAGAAAGTGAAGAAACCGGAATCCTTGGTCAAGTATGATGAGTCCAAATCA  
 GAGAGTGACTTGAAGAAGCAGAACCTGTGGTTATCCCAAGAGATTCTTTGCTTAGGAGAGCAGCTGCTG  
 AAAGACCTAAGTACACTTTTGAATTTCTCAGAAGAGGAGGATGATGATGCTGCTGCTGATGACAGTAA  
 TGATTTAGAAGAACTGAAAGTAAAGCATCTCCATAACAATGATGGGAAGATGAATTTGTTCCCTTCA  
 GATGGCTTAGATAAAGATGAGTATGCTTTTTCTCAGGCAATCCAAAGCTACTCCAGAAAAATCTTCAA  
 ATGACAAAAAAGTCAGGATTTTGGAAATCTTTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT  
 TTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT  
 TTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT  
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 TTTAATTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_009409
<b>Insert Size:</b>	4839 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a></p>
<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_009409.2</a> , <a href="#">NP_033435.2</a>
<b>RefSeq Size:</b>	5652 bp
<b>RefSeq ORF:</b>	4839 bp
<b>Locus ID:</b>	21974
<b>UniProt ID:</b>	<a href="#">Q64511</a>
<b>Cytogenetics:</b>	14 A1
<b>Gene Summary:</b>	Control of topological states of DNA by transient breakage and subsequent rejoining of DNA strands. Topoisomerase II makes double-strand breaks.[UniProtKB/Swiss-Prot Function]