

Product datasheet for **MC201726**

Top3b (NM_011624) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Top3b (NM_011624) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Top3b
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC031723 sequence for NM_011624
 CCGAATGGTAGCAGCGCTCCGACCCGGGCGGGGGCGTGGGGGAGGGTCCTGCCCTGGCGCGGCTTTTTT
 GCCATCCAGCCCTCGCCGTGGGGCTCTGGGCGGCGGTGGAGCCGCGTTTGTGGGAGTGGTTCGCTTTT
 CCAACGAGCTCCCGCGGCCCGAGGAGTCAAGATTGGCAGTCTGTGAGCTACAGAGGAGACATTTCT
 AAGCTTTTTTATTGCTGCTGTTCTGGGTCTGGGTGCAACGGTCTGTGGCCCTGACAGCCAGGAGCAAGA
 ATGAAGACCGTGCATGGTAGCAGAAAAGCCATCCCTGGCACAGTCCATTGCCAAAATCCTCTCCCGAG
 GAAACATGTCCTACACAAAAGGGCTGAATGGGGCATGTTAGTGCACAAGTACACAGGAACCTTTGCTGG
 CCAACCTGTCCACTTCAAGATGACGTCTGTCTGCGGTGATGTGATGACACTGGATTTTCTGGGGAAGTAC
 AACAGTGGGATAAGGTGGATCCTGCAGAGCTCTTCAGCCAAGCTCCAACAGAGAAAAAGGAAGCTAACCC
 CCAAGCTGAACATGGTCAAGTTCCTGCAGGTGGAGGGCAGAGGCTGTGACTATGTTGTGCTGTGGCTGGA
 CTGTGACAAGGAAGGGGAGAATATTTGCTTTGAGTCTTGTAGTCCGTTCTGCCTGTCATGAATAATGCC
 CACAATGGTGAGAAGACAGTGTTCGTGCCAGGTTCACTCCATCACTGATACAGACATCTGTAATGCCA
 TGACCCGCTGAGCGAGCCAGACCACAATGAGGCACTCTCAGTGGATGCCCGCCAGGAGCTAGACCTGCG
 CATCGGCTGTGCATTCAGTGGTTCAAACAAAGTATTTCCAGGAAAAATATGGCGATTTAGACAGCTCT
 CTCATCTCCTTTGGGCCATGTCAGACTCCTACCCTGGGATTCGTGTAGAAAAGACATGATAAAATCCAGT
 CCTTCAAGCCAGAGACCTACTGGGTGCTCAGGCCAAGGTTTCATACAGATAAAGAGGAGTCACTCCTTCT
 GGACTGGGACCGTGTAGAGTTTTGACTGGGAGATTGCACAGATGTTTTAAACATGACAAAGTTAGAA
 AAGAAGCTTGGGTGGAGGCTACAAGCAGGAAAGAAAAAGCCAAGCAGAGACCCTTGTCTGAACACTG
 TGGAGATGTTGCGTGTGGCCAGCTCAGCTCTGGGTATGGGACCACAGCACGCCATGCAAAATAGCTGAGAG
 ATTATACACACAGGGCTATATCAGTACCCACGGACAGAAACCACCCACTATCCCGAGAAGTTTACCTG
 AAGGGCTCTTTGCGACAGCAGGCCAATCACCATACTGGGCACTCGGTAAAGCAGTTGTTAGCGGAAG
 GCATCAACCGCCCTCGGAAAGGTCATGATGCTGGTGACCATCCTCCAATCACACCTATGAAGTCGGCTAC
 AGAGCTGAATTAGGAGGTGACGCATGGAGACTCTACGATATATCACCAGACACTTCAATGCCACAGT
 AGCCATGACTGCAAGTATCTCCAGAGCACTATCTCCTTCAGGATCGGGCCTGAACACTTTACATGTCATGG
 GAAAAACAGTTATTTCTCCAGGTTTACAGAGATCATGCCTTGGCAGAGCGTGCCCTGGAAGAGAGTCT
 GCCCAGTGCCAGAAGGGTGATACCTTCACTGTGGGTGAAGTGAAGATGCTAGAGAAGCAGACGAGCCCA
 CCGGACTATCTGACTGAGGCTGAGCTCATCACTCTCATGGAGAAGCATGGTATCGGGACTGATGCCAGTA
 TCCCTGTGCACATCAACAATATCTGCCAGCGCACTATGTTACTGTGGAGAGTGGCCGCGACTCAAGCC
 CACCAACCTTGGCATAGTTCTGGTGCATGGTACTACAAGATTGATGCAGAGCTGGTACTCCACCACATC
 CGAAGCGCAGTGGAGAAGCAGCTGAATCTTATTGCCAGGGCAAAGCTGACTACCACCAAGTTCTGGGCC
 ATACCCTGGATATCTTCAAGAGAAAGTTCCACTACTTCGTTGATTCTATTGCTGGCATGGACGATTGAT
 GGAGGTTTCTTTTACCCTGGCTGCCACTGGCAAGCCCTCTCACGCTGTGGGAAGTGCATCGATTT
 ATGAAGTACATCCAGGCCAAGCCAAGTCGCTGCACTGCTCCACTGTGATGAGACCTACACCCTCCCC
 AGAATGGTACCATCAAGCTCTACAAGGAGCTGCGGTGCCATTGGATGACTTTGAACTGGTCTGTGGTC
 CTCAGGCTCCCGGGGCAAGAGCTACCCACTATGTCCCTACTGCTATAACCACCCACCTTCCGAGACATG
 AAGAAAGGCATGGGCTGCAATGAGTGCACACACCCACCTGCCAGCACTCACTGAGTATGCTGGCATTG
 GCCAGTGGTGAATGCGAGAATGGAGTCTTGTCTGGACCCCACTTCTGGTCCCAAGTGAAGGTGGC
 CTGCAATACATGCAATGTGGTGGCACACTGCTTTGAAAATGCCACCGAGTACGGGTATCTGCTGACACC
 TGCAACACCTGCGAGGCTGCCTTGTCTGATGTAGACTTCAACAAGGCCAAGTCTCCCTTCTGGCAATG
 AGACACAGCACACAGGCTGCATCTTCTGTGACCCGCTTCCAGGAGCTGGTGGAGCTTAAAGCATGCAGC
 CTCTGCCACCCATGCACCGAGGTGGGCTGGAAGGAGGCAGGGTCTGGGCGGGGCGGGGCCGAGGA
 CCTCCAGGAAAGCCCAACCTAGGCGGCCAAAAGACAAGATGTCAGCTCTGGCTGCTTACTTTGTATGAC
 AACCTATCTTTTCCCACTCCAGACACATCGTGGTTATCTTTGAGCCACTGAAACCATTAATAATGCTTTT
 TATTTTGTATTCTCTGGAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_011624
Insert Size: 2589 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:	BC031723 , AAH31723
RefSeq Size:	2987 bp
RefSeq ORF:	2589 bp
Locus ID:	21976
UniProt ID:	Q9Z321
Cytogenetics:	16 A3
Gene Summary:	<p>Releases the supercoiling and torsional tension of DNA introduced during the DNA replication and transcription by transiently cleaving and rejoining one strand of the DNA duplex. Introduces a single-strand break via transesterification at a target site in duplex DNA. The scissile phosphodiester is attacked by the catalytic tyrosine of the enzyme, resulting in the formation of a DNA-(5'-phosphotyrosyl)-enzyme intermediate and the expulsion of a 3'-OH DNA strand. The free DNA strand then undergoes passage around the unbroken strand thus removing DNA supercoils. Finally, in the religation step, the DNA 3'-OH attacks the covalent intermediate to expel the active-site tyrosine and restore the DNA phosphodiester backbone (By similarity). Possesses negatively supercoiled DNA relaxing activity.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein.</p>