

Product datasheet for **RN208980**

Top2a (NM_022183) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Top2a (NM_022183) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Top2a
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN208980 representing NM_022183 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAAGTGTACCATTGCAGCCTGTAATGAAAATATGCTACTCAACAAAAAGAAGAATGAAGATGGCA
AGAAAAGACTGTCGGTTGAAAGAATCTATCAGAAAAAACCAACTGGAACATATACTGCTCCGCCAGCA
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TACAGGGAAGTCACTTTTGTTCCTGGTTTGTATAAAATCTTTGATGAAATTCTAGTTAATGCTGCTGATA
ACAAACAAGGGACCCAAAAATGTCTTGCAATTAGAGTCACAATGATGCGAAATAATTTAATTAGTATATG
GAATAATGAAAGGGAATTCCTGTTGTTGAACACAAAGTGAGAAAAATGTATGTCCAGCTCTCATATTT
GGACAGCTCCTGACCTCCAGTAACACGATGATGATGAGAAGAAAGTGACAGGTGGTCAAAATGGCTATG
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AAACAGGCTGCCAGTCAAAGGGTCCGTAGTTACGTGGATATGATTTGAAGGATAAGGTTGATGAAACT
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AAACAAAAGAAAACATGACTTTACAAGCCAAGAGCTTTGGATCAACTTGCAATTAAGTAAAAATTCAT
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TTCAGTACAAGAAAAACTATGAGGATGAAGATTCATTGAAAACCTTTCGTTATGGGAAGATCATGATTAT
GACAGATCAGGACCAAGATGGTCCACATCAAAGGCTTGCTGATCAATTTATCCATCACAATTGGCCA



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TCTCTTCTGCGACATCGTTTTCTAGAAGAATTTATCACTCCTATTGTAAAGGTATCTAAAAACAAGCAAG
 AAATAGCATTCTACAGTCTTCCCAGTTTGAAGAATGGAAGAGTACAAATCCAAATCACAAAAATGGAA
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 TCCACGAGAGAAAAGGCAAGAATTGCTGCAACAAAAGCCAAATTCACGGCGGATTTAGACTCTGATGAC
 GATTTCTCAGGCTTGGATGAGAAGGATGAGGATGAAGATTTCTTCCCATTAGATGATACTCCACCTAAGA
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 AAGTGTGGGAAAGACAGTGTACCAGCTTCTCCAGGCGCTTCTGCTGCTGACGTCCCAGCTGAGACTGAA
 CCCTCAAAGCCGCTCCCAAACAGACAGTGGGAGTGAAGAGGACAATAACCAAGGTCAGTCTTTAACCT
 CCACTGCTGGCACCAAAAAGAGAGCTGTACCAAGGAGACCAAGTCAGATTCAGCCTTGAATGCTCATGT
 CTCCAAAAGCCTGCTCCTGCCAAAGCCAAGAACAGTCGCAAGAGGATGCCATCTTCTTCTGACAGCTCG
 GACTCTGAGTTTGAGAAGGCGATTTCTAAAGGTGCCACAAGCAAGAACTCAAGGAGAGGAGCGGATT
 TCCATGTGGACTTAGATGACACTGTGGCTCCTCGAGCAAAATCCGGACGAGCAAGGAAGCCGATTAAAGTA
 CCTGGAGGAGTCGGATGACGACCTCTTCTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
 ACCN: NM_022183
 Insert Size: 4581 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:	NM_022183.2 , NP_071519.2
RefSeq Size:	4987 bp
RefSeq ORF:	4581 bp
Locus ID:	360243
UniProt ID:	P41516
Cytogenetics:	10q31
Gene Summary:	DNA topoisomerase, a nuclear enzyme that can alter the topologic state of DNA during transcription [RGD, Feb 2006]