

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
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN208980 representing NM_022183 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAAGTGCACCATTGCAGCCTGTAATGAAAATATGCTACTCAACAAAAAGAAGATGAAGATGGCA
AGAAAAGACTGTCCGTTGAAAGAATCTATCAGAAAAAACCCAACTGGAACATATACTGCTCCGCCAG
TACCTACATCGGCTCTGTGGAGTTAGTGACCCAGCAATGTGGGTTTACGATGAAGATGTTGGTATTAAC
TACAGGGAAGTCACTTTTGTTCCTGGTTGTATAAAATCTTTGATGAAATCTAGTTAATGCTGCTGATA
ACAAACAAGGGACCCAAAAATGCTTGCATTAGAGTCACAATGATGCGAAATAATTTAATAGTATATG
GAATAATGAAAAGGGAATTCCTGTTGTTGAACACAAAGTGAGAAAATGTATGTCACGCTCTCATATTT
GGACAGCTCCTGACCTCCAGTAACACGATGATGATGAGAAGAAAAGTGACAGGTGGTTCGAAATGGCTATG
GAGCTAACTGTGTAACATATTCAGCACCAAAATTTACTGTGAAAACAGCCAGTAGGGAATACAAGAAAAT
GTTCAAACAGACATGGATGGATAACATGGGGAGAGCTGGTGACATGGAGCTCAAGCCCTTACGGGAGAG
GATTACACGTGTATTACCTCCAGCCTGACTTATCTAAGTTTAAAATGCAAAGCCTGGACAAAGATTTG
TCGCACTGATGGTCAGAAGAGCATAACGATATTGCTGGTCCACCAAGATGTAAGTCTTTCTTAATGG
AAACAGGCTGCCAGTCAAAGGTTCCGTAGTTACGTGGATATGATTTGAAGGATAAGGTTGATGAACT
GGGAACGCTCTGAAGGTGGTGCATGAACAAGTAAATCCCGGTGGGAAGTGTGCTTAACAATGAGCGAGA
AAGGCTTTTCAGCAGATTAGCTTCGTCAACAGCATCGCTACTTCTAAGGTTGGCAGACATGTCGATTATG
AGCCGATCAGATTGTGAGTAAACTCGTTGATGTGGTGAAAAGAAGAACAAGGGAGGTGTTGCAGTGAAG
GCCGATCAGGTGAAGAATCACATGTGGATTTTGGAAATGCGGTAATTGAAAACCAACCTTTGATTCTC
AAACAAAAGAAAACATGACTTTACAAGCCAAGAGCTTTGGATCAACTGTCAATTAAGTAAAAATTCAT
CAAAGCTGCAATTGGTTGGTATTGTGCAAAGCATACTAACTGGGTGAAGTTTAAAGGCCAAATCCAA
TTAAACAAGAAGTGTTCAGCTGTAAAACATAACAGGATCAAGGGAATCCCAAACTTGACGACGCCAATG
ACGCAGGGAGCCGAACTCTGCTGAATGCACACTTATCCTGACTGAAGGGGACTCAGCCAAAACCTGTC
AGTCTCAGGACTTGGAGTGGTTGGAAGAGACAAATATGGGTGTTCCCTCAGAGGAAAAATACTCAAT
GTGCGAGAAGCTTCTATAAACAGATCATGAAAAATGCTGAAATTAACAATATCATCAAGATTGTGGGGC
TTCAGTACAAGAAAACTATGAGGATGAAGATTCATTGAAAACCTTTCGTTATGGGAAGATCATGATTAT



[View online »](#)

GACAGATCAGGACCAAGATGGTTCCCACATCAAAGGCTTGCTGATCAATTTATCCATCACAATTGGCCA
TCTCTTCTGCGACATCGTTTTCTAGAAGATTTTCACTCCTATTGTAAGGTATCTAAAAACAAGCAAG
AAATAGCATTCTACAGTCTCCCGAGTTTGAAGAAATGGAAGAGTACAAATCCAAATCACAAAAATGGAA
AGTCAAGTACTACAAAGTTTGGGCACGAGCACATCAAAGGAAGCTAAGGAGTATTTTGCAAATATGAAA
CGACATCGTATTCAGTTCAAATACTCTGGCCCTGAAGACGATGCTGCGATCAGCCTGGCCTTTAGTAAAA
AACAGGTCGATGATCGAAAGGAATGGTTAACTAATTTTCATGGAAGATAGAAGACAGCGGAAGTTACTTGG
CCTTCTGAGGATTATTTGTATGGACAAACCCTATGTACCTGACCTATAATGATTTTCATTAACAAGGAA
CTTATCCTCTTTTCAAACCTCTGATAATGAAAGATCTATCCCATCTATGGTAGATGGTTTGAACCAGGTC
AGAGAAAAGGTTTTGTTTACTTGTTCCTCAAACGGAATGACAAGCGAGAGGTGAAAGTTGCCAGTTAGCTGG
GTCAGTGGCAGAAATGTCCTCTTATCACCATGGTGAAGTGTGCTGATGATGACCATTATCAATTTGGCT
CAGAATTTTGTGGGTAGCAATAATTTGAACCTTCTACAGCCTATTGGTCAGTTTGGTACCAGGCTGCATG
GTGGCAAGGACTCAGCCAGCCCTAGGTACATCTTACAATGCTCAGCCCTTTGGCTCGTTGTTATTTCC
ATCAAAGATGATCACACGTTACGGTTTCTGTATGACGACAACCAGCGTGTGAGCCTGAATGGTACATC
CCTATTATACCCATGGTCTGATAAATGGTCTGAGGGAATGGTACTGGTGGTCTGCAAAATCCCA
ACTTTGATGTTTGAAGTCGTAATAATATCAGGCGGCTGTTGGATGGAGAAGAGCCTCTGCCATGCT
CCCAAGTTATAAGAATTCAAAGGTAATTTGAAGAACTGGCTTCAAATCAGTATGTGATTAATGGAGAA
GTAGCTATTCTGAATCCACAACCATTGAGATCACTGAGCTTCCCATCAGAACATGGACCAGACATATA
AGGAACAGGTTCTAGAACCTATGTTGAATGGCACCAGAGAAGACACCCCTCTAATAACAGACTATAGGGA
ATACCACACAGATACCACTGTGAAGTTTGTCAAAAGTACTGAAGAAAAATGGCAGAGGCAGAGAGA
GTGGGACTACACAAAGTCTTCAAACCTCAGACTAGTCTCACTTGAACCTCTATGGTACTTTTTGACCATG
TTGGTTGTTTAAAGAAATATGACACTGTGTTGGATTTCTAAGAGACTTCTTTGAGCTCAGGCTTAAATA
TTATGGATTAAGAAAAGAAATGGCTTCTAGGAATGCTTGGTGCAGAATCTTCTAACTGAATAATCAAGT
CGCTTTATATTAGAGAAAAATAGATGGCAAATAGTCATTGAAAAAACAACCTAAGAAAAGAAATTAATTAAG
TTCTGATTACAGAGAGGCTATGACTCCGACCCTGTGAAAGCCTGGAAAGAAGCTCAGCAGAAAGTCCAGAA
AGAAGAGGAAAAATGAAGAGAATGAAGAGAGCGAGAGTGAAGACAGGACCTGCAGCGGAGTCTGGACCG
ACCTTCAACTACCTTCTGATATGCCCTGTGGTATCTAACCAAGGAGAAGAAGGACGAGCTGTGCAAGC
AAAGGGACGAGAAGGAACAAGAGCTCAACACGTTAAAGAAAAAGACTCCATCGGATTTGTGGAAGGAAGA
CCTGGCTGCTTTTGTGGAAGAACTGGAGTTGTTGAAGCCAAGGAAAAACAGGATGAACAAGTAGGACTT
CCTGGAAGGGGGTGAAGCGAAGGGGAAGAAAGCGCAGATATCTGAAGTCTGCCTTCTCTGTGGGGA
AAAGGGTCATCCCGCAGGTGACTATGGAGATGAGAGCTGAGGCAGAGAAGAAAAATCAGGAGGAAAAATTA
GAGCGAGAATGTTGAGGGCACCCCTGCTGAGGATGGTGTGCTGAGCCAGGACTCCGCGCAGACTAGAGAAG
AGGCAGAAAGAGAGCCAGGTACCAGGGCAAAGAAAGCAAACTACATTGCCATTTAAGCCTATCAAAAAAG
CCCAAAAGCAAAACCCTTGGTCTGATTCTGAATCAGATATGAGCAGCAACGAAAGCAATTTTGTATGCC
TCCACGAGAGAAAAGGCCAAGAATTGCTGCAACAAAAGCCAAATTCACGGCGGATTTAGACTCTGATGAC
GATTTCTCAGGCTTGGATGAGAAGGATGAGGATGAAGATTTCTTCCCATTAGATGATACTCCACCTAAGA
CCAAAAATGCCCCAAAAAATACTAAAAAGCACTGAAGCCACAGAAGAGCTCCACATCAGTTGATCTTGA
AAGTGTGGGAAAGACAGTGTACCAGCTTCTCCAGGCGCTTCTGCTGTGACGTCCCAGCTGAGACTGAA
CCCTCAAAGCCGCTCCTCAAACAGACAGTGGGAGTGAAGAGGACAATAACCAAGGTGAGTCTTTAACCT
CCACTGCTGGCACCAAAAAGAGAGCTGTACCAAGGAGACCAAGTCAGATTCAGCCTTGAATGCTCATGT
CTCCAAAAAGCCTGCTCCTGCCAAAGCCAAGAACAGTCGCAAGAGGATGCCATCTTCTTCTGACAGCTCG
GACTCTGAGTTTGAAGGCGATTTCTAAAGGTGCCACAAGCAAGAACTCAAGGAGAGGAGCGGGATT
TCCATGTGGACTTAGATGACACTGTGGCTCCTCGAGCAAAATCCGGACGAGCAAGGAAGCCGATTAAGTA
CCTGGAGGAGTCCGATGACGACCTCTTCTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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]