

Product datasheet for MC224642

Top2a (NM_011623) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Top2a (NM_011623) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Top2a
Synonyms:	Top-2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224642 representing NM_011623 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGTTGTACCGCTGCAGCCTGTAATGAAAATATGCTAATGAACAAAAAGAAGAATGAAGATGGCA
AGAAAAGATTGTCTATTGAAAGAATCTATCAGAAAAAACACAACCTGGAACATATACTGCTCCGCCCAGA
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TACAGGGAAGTCACTTTTGTTCCTGGTTTGTATAAAAATCTTTGATGAGATTCTAGTTAATGCTGCTGATA
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TTTGGACAACCTCTGACCTCCAGTAACTATGACGACGATGAGAAGAAAAGTACAGGTGGTCCGAAATGGCT
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AATGTGCGAGAAGCCTCTATAAACAGATCATGAAAAATGCTGAAATTAACAATATCATCAAGATTGTGG



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GTCTCCAGTACAAGAAAACTATGAAGATGAAGATTCATTGAAAACCTTCGTTATGGGAAGATCATGAT
TATGACAGATCAGGACCAAGATGGTTCCACATCAAAGGCTTGCTGATCAATTTTATCCATCACAATTGG
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AGAGTCGGCCTACACAAAGTCTTCAAACCCAGAGTAGTCTCACTTGAACCTCTATGGTGCTTTTGGCC
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CCAAAATCCCCCAAAAAATACTAAAAAGCACTGAAGACCCAGGGAAGCTCCATGTGCGTAGTTGATCT
TGAAAGTATGTTAAGGACAGTGTGCCAGCTTCTCCAGGCTTCTGCTGCTGACTTCCAGCGGAAACT
GAACAGTCAAAGCCATCCAAAAGACCGTGGGAGTGAAGAAGACAGCAACCAAAAGCCAGTCTTCAGTCT
CCACTGTGTTACCAAAAAGAGAGCTGCGCCAAAGGGAACCAAAATCAGATTCAGCCTTGAGTCTGCTGT
CTCGGAAAACCTGCTCCTGCCAAAGCCAAGAAGTGCAGAAAAGGAAGCCATCTTCTTCTGATAGCTCT
GACTCTGATTTTGAAGAGCAATTTCTAAAGGTGCCACGAGCAAGAAAAGCAAAAGGAGAGGAACAGGACT
TCCCTGTGGACTTGAAGACACGATAGCTCCTCGAGCCAAATCTGACCGGCGAGGAAGCCAATTAAGTA
CCTGGAGGAGTCCGATGACGATGACGACCTCTTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_011623
Insert Size: 4587 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_011623.2 , NP_035753.2
RefSeq Size:	5217 bp
RefSeq ORF:	4587 bp
Locus ID:	21973
UniProt ID:	Q01320
Cytogenetics:	11 62.91 cM
Gene Summary:	Control of topological states of DNA by transient breakage and subsequent rejoining of DNA strands. Topoisomerase II makes double-strand breaks. Essential during mitosis and meiosis for proper segregation of daughter chromosomes. May play a role in regulating the period length of ARNTL/BMAL1 transcriptional oscillation (PubMed:24321095).[UniProtKB/Swiss-Prot Function]