

Product datasheet for MC224628

Topbp1 (NM_176979) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Topbp1 (NM_176979) Mouse Untagged Clone
Tag: Tag Free
Symbol: Topbp1
Synonyms: 1110031N14Rik; 2810429C13Rik; AI256758; D430026L04Rik; mKIAA0259
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224628 representing NM_176979
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGTCCAGAAATGACCAAGAGCCGTTTCTTGTGAAGTTTTAAAGTCTTCGGACAATTCAGAATGCTTTT
 TTAAGCTCTTGAGTCAATAAAGGAATTACAATCAGAAGATTATCTTCAGATTATTACAGATGAGGAAGC
 ATTGAAGATAAGAGAGAATGACAAATCGCTTTATATCTGTGACCGTTTCAGTGGCACTGTTTTGATCAC
 CTTAAACAGCTTGGCTGCAGGATTGTTGGTCTCAAGTGGTCAATTTTGTATGCCACCAGCAATGTG
 TCCAAGAGCTGAGCATCCAGTCTACAACATGATAATGTCTGACGTAAGTGTATCCTGTACAAGCCTGGA
 TAAAGACAAAACGGGAAGAAGTTCATAAATACGTACAAATGATGGGTGGACGAGTATACAGAGACCTTAAT
 GTATCAGTCACTCACCTATTGCAGGAGAAGTTGGGAGCAAAAAGTACTTAGTTGCTGCTAATCTGAAGA
 AGCCTATTTTGTACCTTCTGGATAAAAACCTTTGGGAGAAGTCACAAGAAAAAAAAAATACCAAGTA
 CACTGATGTAACATGGAAGACTTTAAGTGTCTATTTTCTTGGTTGCATTATCTGTGTGACTGGCTTA
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 AGATGAATGAGTGTACACACCTCATTGTGCAAGAACCAAAAGGACAAAAATACGAATGTCCAGGAGATG
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 ATATACAAGGCTGAAACAGAGTGAAGCAAAAGTGGTGCCTGATACTTCAACACCCACTGCTCAGAGCA
 ATGCTGAAAGTCACAGCTCGCAGATGTCAGCCATATATCCAACATAAATGGCAGCTGTGAAATGAAAC
 AATGTTTGGTTCAACTACTAGCAAACCTGAATGTTCCCTGAAAACCTAGAAAATCTGGACATCAGTATG
 TTTCAAGCTCCTGAAGACTTATTAGATGGCTGTCGGATATATCTTTGTGGTTTTAGTGGCAGAAAGCTGG
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 TGAATTTGTGGGAGATTATGATGACGACGTGAGGCACTTCTGGAGCAAAATCATCTCACAGGCCTCACGTA
 GTGGGAGCAAAGTGGTTGCTGGAGTGTCTTAAAGGATATATACTTCTGAAGAGTCTATATCCACA
 CTAAGTACCAGCCAGCTGGAATTCAGTTTCCGATCAGCCTGAAACAGACAGCTGTCTTAGACAAGAG
 CGGCTCATTCTCAAGAGCGCCCTTGTCTGCTGAGAGGCTTCAGCAGGCCGACGAGGATCTGCTTGTCT
 CAGTATGGAATGACGACTCCACGATGTTGAAGCTAAGCTATCTGAAGCTTTAGAGCCTGAAGTCGGGC



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CTTGCCCTGGTTCTGCTCACCGTGAGCCCTGTGATGATTCCACTCACATTTCTGTGCAAGAGGAAAAACA
 GTCGTCTGTCAAGTATTGCATCCTTGTGACTCTACAGTTCGTGAAGAAGGCTTATTTAGCCAGAAGAGT
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 AGATTGTGTCCTTCCCAGCAGAATTGTTGCTGACTATGCTGTGGTCCACTGCTGGGATGTGAGGTAGA
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 TTTCTTCAGTCAGTGTGTTGGGAGCAGAAAGAGATTCCCTGGTATTCTTAGCAAATCACCTGGAGCAAG
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 AAGGAACCGACTGGTTCCAAATACGAAGCTGCAAAGAAATGGAGTTTGCCGGCAGTTAACATTTTCATGGC
 TCTTAGAAACTGCGAGAATCGGGAAGAGAGCAGATGAAAACCATTTTCTGGTTGACAACGCACCTAAACA
 AGAACAAGTTTTAGAACTAAGATACCAAATGGAGTGAGTTCAAATCCAGATTTACCAGCACATCCTGAC
 GCACACTTGAAAATTACAGAAAAAGGCGTTACACCTTTGGACATGAATCGCTTTCAGAGTAGAGCCT
 TCCGTGCTGTCATTTACAGCAGAGGGGGCAGGACCCACCTTCCACCAGTACGGCAGCCCTTACTAA
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 GTGGTGTGTGTGAGTAAGAAGCTCAGTAAGAAGCAGAGTGAGCTCAATGGGGTCGCAGCATCACTGGGAG
 CAGAGTACAGGTGGAGTTTCGATGAGACTGTTACTCATTTCATTTACCAGGGTCGGGCAAATGACAGTAA
 TCGAGAATATAAATCTGCAAAGGAAAGAGGGGTGCACATCGTGTCCGAGCATTGGCTATTAGAGTGTGCT
 CAAGAGTATAAGCATCTTCTGAATCTCTTTATCCACACACTTACAATCCAAAATGAGTTTGGACATCA
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 GCCAGATCATCTGTCTGTAGAAGGAAATGAGACAAACACTATGGGCACAAATGACAAAGACTGACCTGTG
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 AGAAGCAGCTGCAAGAGATCATGTGAGCCACCTGCATTGTGAAGACGCCTGCCAGAAAGACTTGCATGTC
 AAGAAGCAGCTGTAAAGCGCCTCTTCAACTCCTGACAGCGCTCGCTCTGTGCGGAGCGGACGAAGCCGA
 GTCCTGGAGGCACTCAGGCAGTCTCGGCAGGCAGTGCCTGATGTGAACACGGAGCCGTCAGGACGAGC
 AGATCATTGGGACGACCCGACAGCAAGGGAAGAGAGCAAGGCTTCCAGCAACTTACAGTGGCCAG
 CGACCCACACAGCATTCTGAGCTTCAAGTTGAGATAAAAATGCCGATGACTCTCCCTCTGAAAGCCT
 GTGTACCATTAGAAATGCTGAGCAGGCCTCGTGTACTCAAGCCCCAGGCACCCAGGCTCTGAAG
 AACAGAGCCTCCAGTAGCAGAAAGGCCTTTGATCCCCGAGCCGAAGCCCCGCTGTAGCTTCCCCCT
 GGCTAAGCCGCTGTGGCCCAACCTGCAGACAAGATTGAAACACAGGAGGAGACGCACAGAAAAGTT
 AAAAAACAGTATGTGTTCCAGATGTCGTCTCTGAATTCTCAAGAGCGGATTGATTACTGTGCGCTGATTA
 AAGACTTAGTGGGTCGGTGTGATCGAGAAGCAGTCTGACCCAGCTGCACACACATGGTTGTGGGCTA
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 GACGCTTGAAGACAGCTGGGCGCTTTGTGAGGAAGAAGACTACGAGTGGGGAAGTAGCTCCATACTTG
 ATGCTCTCCCTGACGTCAGTACTGAGCACCAGCAGAAGCTCGACTGGCGGCAATGAGATGGAGGAAAAGAA
 CCAGCAAAGTCAAGAATCCGGCATTGTTGAGGGAGCATTAGTGGCTGGAAGCTATTTTACGTGTTGAT
 CGGCCCCGAGAAGCTGGGTTCAAACGCCTTCTTCAGGCAGGAGGAGCAAAGGTGTTATCTGGTCATCCAG
 AACCTTTACTTAAAGATGCTACGCATCTCTTTGTGACTTCAATAAACTGAAACCTGATGACTGCAGAGT
 TTTTCATCGCAGAGGCTACTGCCAGAACATGGTCTGCTTGAACAGAAATATATCGCTGATTATCTCATG
 CTGGAATCCCCTCCTTGTGACAGACAATTACCGTGTATCCGAAGCTGCTTTATTCCATAAAGAAAGGTG
 GCCTGGATTACCACAGAAGAGGAAAACCTCTGCAGAGAATGTAGTCAAACGGCCTCGAGTACACTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
 ACCN: NM_176979
 Insert Size: 4548 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_176979.5 , NP_795953.2
RefSeq Size:	5112 bp
RefSeq ORF:	4548 bp
Locus ID:	235559
UniProt ID:	Q6ZQF0
Cytogenetics:	9 F1
Gene Summary:	Required for DNA replication (By similarity). Plays a role in the rescue of stalled replication forks and checkpoint control (PubMed:14718568). Binds double-stranded DNA breaks and nicks as well as single-stranded DNA (By similarity). Recruits the SWI/SNF chromatin remodeling complex to E2F1-responsive promoters. Down-regulates E2F1 activity and inhibits E2F1-dependent apoptosis during G1/S transition and after DNA damage (By similarity). Induces a large increase in the kinase activity of ATR (By similarity).[UniProtKB/Swiss-Prot Function]