

Product datasheet for MR212017

Topbp1 (NM_176979) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Topbp1 (NM_176979) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Topbp1
Synonyms:	1110031N14Rik; 2810429C13Rik; AI256758; D430026L04Rik; mKIAA0259
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR212017 representing NM_176979 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence: >MR212017 representing NM_176979
 Red=Cloning site Green=Tags(s)

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Chromatograms: https://cdn.origene.com/chromatograms/mm9048_h11.zip

Restriction Sites: SgfI-MluI

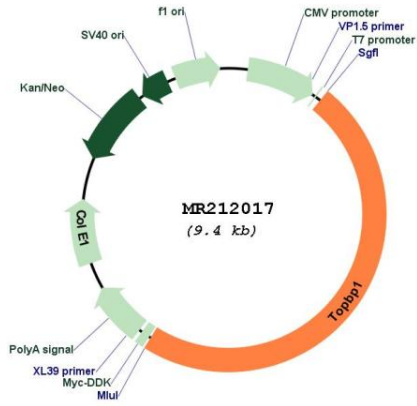
Cloning Scheme:



ACCN: NM_176979

ORF Size:	4545 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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
MW:	169.3 kDa
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]

Product images:



Circular map for MR212017