

Product datasheet for MR212017L4

OriGene Technologies, Inc.

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Topbp1 (NM_176979) Mouse Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Topbp1 (NM_176979) Mouse Tagged Lenti ORF Clone

mGFP Tag:

Symbol: Topbp1

1110031N14Rik; 2810429C13Rik; AI256758; D430026L04Rik; mKIAA0259 Synonyms:

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-mGFP-P2A-Puro (PS100093)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide

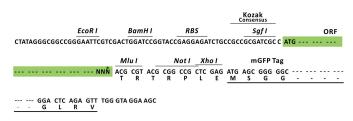
Sequence:

The ORF insert of this clone is exactly the same as(MR212017).

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



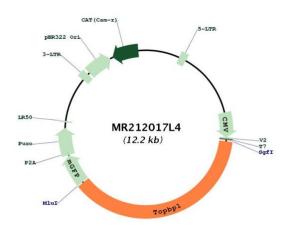


^{*} The last codon before the Stop codon of the ORF.





Plasmid Map:



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: 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: <u>NM 176979.5, NP 795953.2</u>

RefSeq Size: 5112 bp RefSeq ORF: 4548 bp



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 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]