

Product datasheet for **MG212017**

Topbp1 (NM_176979) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Topbp1 (NM_176979) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Topbp1
Synonyms:	1110031N14Rik; 2810429C13Rik; AI256758; D430026L04Rik; mKIAA0259
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG212017 representing NM_176979 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence: >MG212017 representing NM_176979
 Red=Cloning site Green=Tags(s)

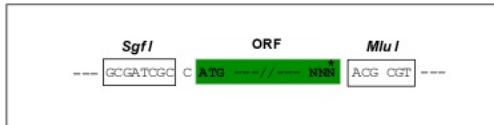
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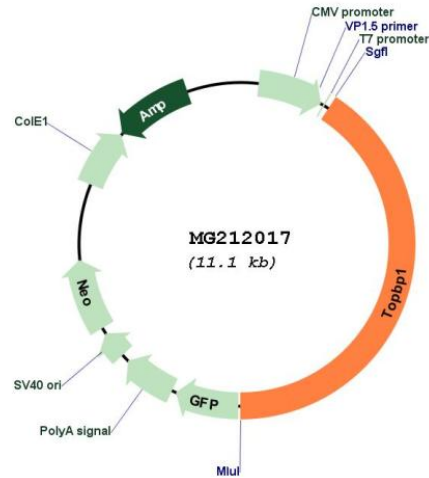
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



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: [NM_176979.4](#)

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]