

Product datasheet for **MG202718**

Rybp (NM_019743) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rybp (NM_019743) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rybp
Synonyms:	2410018J24Rik; DEDAF; YEAF1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202718 representing NM_019743 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACCATGGGCGACAAGAAGAGCCCGACCGCCAAAAAGACAAGCGAAACCTGCCGCAGACGAAGGCT
 TTTGGATTGTAGCGTCTGCACCTTTAGGAACAGCGCCGAAGCCTTTAAATGCAGCATCTGCGATGTGCG
 GAAAGGCACCTCCACCAGGAAACCTCGCATCAATTCTCAGCTGGTGGCACAGCAGGTGGCACAGCAGTAC
 GCCACTCCACCTCCCCCTAAGAAGGAGAAGAAGGAGAAGGTGAAAAGCCTGACAAAGAAAAGCCAGAGA
 AAGACAAGGACATTAGCCCCAGTGTACCAAGAAAAACCAACAAGAAAACAAACCAAGTCTGATAT
 TCTGAAAGATCCTCTAGTGAAGCTAACAGCATACAGTCTGCTAACGCTACAACAAAGACCAGCGAAACA
 AACCACACCTCAAGGCCCGGCTGAAGAATGTGGACAGGAGCACCGCACAGCAGTTGGCAGTAACCTGTGG
 GCAACGTACCGTCAATTATCACAGACTTTAAGGAAAAGACTCGCTCCTCCTCCACATCCTCTCCACAGT
 GACCTCCAGTGCAGGGTCAGAACAGCAGAACAGAGCAGCTCGGGCTCAGAGAGCACAGACAAAGGCTCC
 TCCCGCTCCTCCACGCCAAAGGGCGACATGTCAGCAGTGAATGATGAATCTTTC

ACGCGTACGCGGCGGCTCGAG - GFP Tag - GTTTAA


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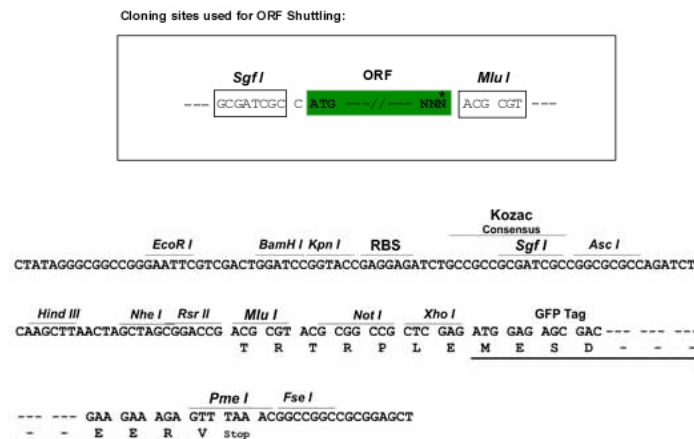
Protein Sequence: >MG202718 representing NM_019743
 Red=Cloning site Green=Tags(s)

MTMGDKKSPTRPKRQAKPAADEGFWDSCVCTFRNSAEAFKCSICDVRKGTSTRKPRINSQLVAQQVAQQY
 ATPPPPKKEKKEKVEKPDKEKPEKDKDISPSVTKKNTNKKTKPKSDILKDPPSEANSIQSANATTKTSET
 NHTSRPRLKNVDRSTAQQLA VTVGNVTVIITDFKEKTRSSSTSSSTVTSSAGSEQNQSSSGSESTDKGS
 SRSSTPKGDMSAVNDESF

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_019743

ORF Size: 684 bp

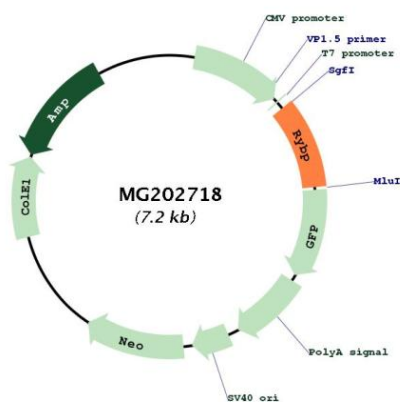
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_019743.3</u> , <u>NP_062717.2</u>
RefSeq Size:	4376 bp
RefSeq ORF:	687 bp
Locus ID:	56353
UniProt ID:	<u>Q8CCI5</u>
Cytogenetics:	6 D3
Gene Summary:	<p>Component of a Polycomb group (PcG) multiprotein PRC1-like complex, a complex class required to maintain the transcriptionally repressive state of many genes, including Hox genes, throughout development. PcG PRC1-like complex acts via chromatin remodeling and modification of histones; it mediates monoubiquitination of histone H2A 'Lys-119', rendering chromatin heritably changed in its expressibility (PubMed:22325148, PubMed:28596365). Component of a PRC1-like complex that mediates monoubiquitination of histone H2A 'Lys-119' on the X chromosome and is required for normal silencing of one copy of the X chromosome in XX females (PubMed:28596365). May stimulate ubiquitination of histone H2A 'Lys-119' by recruiting the complex to target sites (PubMed:22325148, PubMed:28596365). Inhibits ubiquitination and subsequent degradation of TP53, and thereby plays a role in regulating transcription of TP53 target genes (By similarity). May also regulate the ubiquitin-mediated proteasomal degradation of other proteins like FANK1 to regulate apoptosis (PubMed:17874297). May be implicated in the regulation of the transcription as a repressor of the transcriptional activity of E4TF1 (By similarity). May bind to DNA (PubMed:19170609). May play a role in the repression of tumor growth and metastasis in breast cancer by down-regulating SRRM3 (PubMed:27748911).[UniProtKB/Swiss-Prot Function]</p>

Product images:



Circular map for MG202718