

Product datasheet for **MG202974**

Apip (NM_019735) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Apip (NM_019735) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Apip
Synonyms: APIP2; CGI-29; Mmrip19
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG202974 representing NM_019735
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCTGGCTGTCAAGCTCAAGGAGACTGTTGCTCGCGGCGGTGGCGCGCAGGACAAGGAGCACCCCC
 GATTCCTGATCCCAGAACTTTGCAAACAGTTTTACCATCTGGGCTGGGTCAACGGCACTGGAGGGGGAAT
 CAGCTTGAAGCATGGCAATGAAATCTACATTGCTCCCTCAGGCGTGCAAAGGAACGCATTCAGCCAGAA
 GACATGTTTGTGTGTGACATTAATGAGCAGGACATAAGCGGGCCTCCAGCATCTAAGAAGCTGAAAAAAA
 GCCAGTGCCTCTTTTCATGAATGCTTATACCATGAGAGGAGCTGGCGCAGTGATTCATACCCACTC
 TAAAGCTGCTGTGATGGCTACCTTCTGTTCCAGGACAGGAGTTAAAATTACACATCAAGAGATGATC
 AAAGGAATAAGGAAATGTACCTCAGGAGGCTATTACAGATACGATGATATGTTAGTGGTACCTATTATTG
 AGAACACTCCTGAAGAGAAGGATCTCAAAGAAAGGATGGCTCATGCCATGAACGAGTACCCAGACTCCTG
 TGCGGTTCTTGTCCGGCGTCATGGGGTGTACGTGTGGGGAGAAACATGGGAGAAAGCAAAAACCATGTGT
 GAGTGTATGACTACCTGTTTGACATTGCTGTCTCCATGAAGAAGATGGGACTCGATCCAACACAGCTCC
 CAGTTGGAGAAAATGGAATTGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG202974 representing NM_019735
Red=Cloning site Green=Tags(s)

MSGCQAQGDCCSRPCGAQDKEHPRFLIPELCKQFYHLGWVTGTGGGISLKHGNEIYIAPSGVQKERIQPE
 DMFVCDINEQDISGPPASKLKKSQCTPLFMNAYTMRGAGAVIHTHskaAVMATLLFPGQEFKITHQEMI
 KGIRKCTSGGYRYDDMLVVPPIIENTPEEKDLKERMAHAMNEYDPSCAVLVRRHGVVWGETWEKAKTMC
 ECDYDLFDIAVSMKKMGLDPTQLPVGENGIV

TRTRPLE - GFP Tag - V

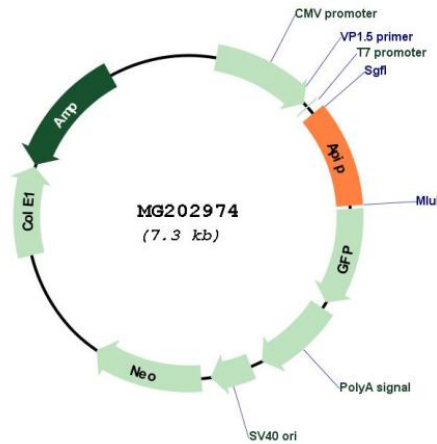
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_019735

ORF Size: 723 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_019735.4 , NP_062709.3
RefSeq Size:	897 bp
RefSeq ORF:	726 bp
Locus ID:	56369
UniProt ID:	Q9WVQ5
Cytogenetics:	2 E2
Gene Summary:	Catalyzes the dehydration of methylthioribulose-1-phosphate (MTRu-1-P) into 2,3-diketo-5-methylthiopentyl-1-phosphate (DK-MTP-1-P). Functions in the methionine salvage pathway, which plays a key role in cancer, apoptosis, microbial proliferation and inflammation. May inhibit the CASP1-related inflammatory response (pyroptosis), the CASP9-dependent apoptotic pathway and the cytochrome c-dependent and APAF1-mediated cell death. [UniProtKB/Swiss-Prot Function]