

Product datasheet for **MG215274**

Apopt1 (NM_001163388) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Apopt1 (NM_001163388) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Apopt1
Synonyms: 1700081D05Rik; 2810002N01Rik; Apop-1; Apop1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG215274 representing NM_001163388
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGCTTTGCGGCCCGAAGCAGAGCGCTTCGCCGGCTTCTCTGCCGGTCTTCTCCGGCGCGGGC
 GCGTTAGGTTGGCCCGTAGCGCCCTACGGATCACAGGGATGCGGCGTCCAGCCGGGTCTCAAGATTCTG
 CCCTCAAAGACAGTCTTGCCATGATTGGATAGGCCCCAGACAAATGCTCAAACCTTCGTCGCCGTTTCAT
 TTTACATCCCTGAAAACGAGTCTCCCTGGAGCAAAGACTTAGAGAATTGAGACAAGAAACGAAGAAT
 GGAATCAACAGTCTGGGCAAGCAGAACTTGCTTCAATAAGGAAAAAGAAGAATTCATTTACTCAAG
 ACTACAAGCTAAGGGCGCAGGCTTGCGGACTGAGTCAGGCCAAAGAGCAACGCTGGATGCAGAGGAGATG
 GCCGACTTCTATAAGGACTTTCTGAGTAAGAAATTCAGAAAGCACATGCGCTATAACCGGCTGGGCCTG
 GGAGCCAGGATGTTGGATGTGTTGGCAAGTGCTCTTTGCCGAGCTGCATCCTTACCTCACAGTGTCCGC
 CTTACAAGGTTCTGTCTGTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG215274 representing NM_001163388
 Red=Cloning site Green=Tags(s)

MAALRPGSRALRRLLCRSFSGGGGVRLARERPTDHRDAASSRVSRFCPPRQSCHDWIGPPDKCSNLRPVH
 FHIPENESPLEQRLRELQETQEWNQQFWAKQNL SFNKEKEEF IYSRLQAKGAGLRTEGQRATLDAEEM
 ADFYKDFLSKNFQKHMRYNRAGPGSQDVGCVGKCSFAELHPYLTVSALQGSCPA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_001163388

ORF Size: 582 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_001163388.1](#), [NP_001156860.1](#)

RefSeq Size: 684 bp

RefSeq ORF: 585 bp

Locus ID: 68020

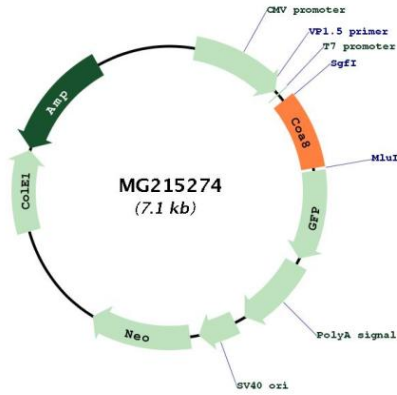
UniProt ID: [Q9CQW7](#)

Cytogenetics: 12 F1

Gene Summary:

Plays a role in the regulation of apoptosis. Mediates mitochondria-induced cell death in vascular smooth muscle cells through the release of cytochrome c from mitochondria, followed by the activation of the caspase cascade.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG215274