

Product datasheet for **RG229120**

APOPT1 (NM_032374) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: APOPT1 (NM_032374) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: APOPT1
Synonyms: APOP; APOP1; C14orf153
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG229120 representing NM_032374
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTGCCGTGCGCCGCGGGAGCCAGGGGGCGTGGGGCCATGGTGGTCTTGCGGGCGGGGAAGAAGACCT
 TTCTCCCCCTCTCTGCCGCGCTTCGCCTGCCGCGGTGTCAACTCGCTCCGGAGCGGGCGCCGAGCG
 CAGGGATACGGCGCCAGCGGGTCTCAAGATTCTGCCCTCAAGAAAGTCTTGCCATGATTGGATAGGA
 CCCCAGATAAATATTCAAACCTTCGACCTGTTCACTTTTACATACCTGAAAATGAATCTCCATTGGAAC
 AAAAGCTTAGAAAATTAAGACAAGAAACAAGAATGGAATCAACAGTTCTGGGCAAACCAGAATTTGAC
 TTTTAGTAAGGAAAAAGAAGATTTATTCACTCAAGACTAAAACTAAAGCCTGGGCTGAGAAGTAA
 TCAGGTACAGAAAGCAACATTGAATGCAGAAAGAAATGGCGGACTTCTACAAGGAATTTTAAAGTAAAT
 TTCAGAAGCACATGTATTATAACAGAGATTGGTACAAGCGCAATTTTCCATCACCTTCTTCATGGGAAA
 AGTGGCCCTGAAAGGATTTGGAACAAGCTTAAACAGAAACAAAAGAAGAGGAGCAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG229120 representing NM_032374
 Red=Cloning site Green=Tags(s)

MLPCAAGARGGAMVVL RAGKTF L PPLCRAFACRGCQLAPERGAERD TAPSGVSRFCPPRKSCHDWIG
 PPDKYSNLRPVHFYIPENESPLEQKLRKLRQETQEWNQQFWANQNL TFSKEKEEF IHSRLKTKGLRTE
 SGQKATLNAEEMADFYKEFLSKNFQKHMYNDRD WYKRNFAITFFMGKVALERIWNK LKQKQKRNS

TRTRPLE - GFP Tag - V

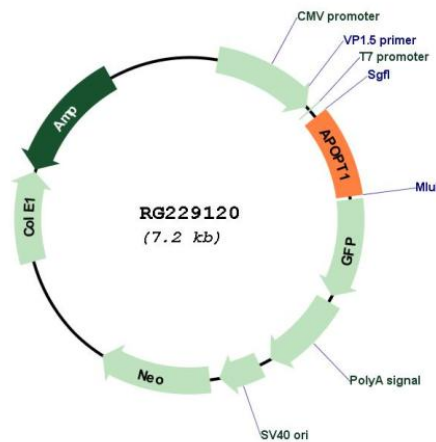
Restriction Sites: Sgfl-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM_032374

ORF Size: 618 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_032374.4](#), [NP_115750.2](#)

RefSeq Size: 1244 bp

RefSeq ORF: 621 bp

Locus ID: 84334

UniProt ID: [Q96IL0](#)

Cytogenetics: 14q32.33

Protein Families: Secreted Protein

Gene Summary: This gene encodes a protein that localizes to the mitochondria, where it stimulates the release of cytochrome c, thereby promoting programmed cell death. Mutations in this gene have been found in individuals with mitochondrial complex IV deficiency. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2014]