

## Product datasheet for **RR214751**

### Apopt1 (NM\_001037769) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Apopt1 (NM\_001037769) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Apopt1  
**Synonyms:** APOP-1; Apop1; RGD1304719  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR214751 representing NM\_001037769  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGGCGGCTTTGCGGCCCGGAAGCAAAGCTCTTCGCCGGCTGCTCTGCCGGTCTTCTCCGGCGCGCGG  
TTCGGCTGGCCCGTGAGCGCGCTACGGAGCGCAGGGATGCTGCGTCCAGCCGGGTCTCAAGATTCTGCC  
TCCGAGACAGTCTTGCCATGATTGGATAGGCCCCAGACAAATACTCCAACCTTCGTCCTGTTCAATTT  
CATGTCCCTGAAAATGAGTCTCCTTTGGAGCAAAGGCTTAGGGAATTGAGGCAAGAAACGCAGGAATGGA  
ATCAGCAGTTCTGGCCAAAGCAGAATCTGTCTTTAATAAGGAAAAGGAAGATTCATTTACTCAAGGCT  
ACAAGCTAAAGGCTCAGGCCCGGAACCGAGTCAGGCCAAAGAGCAACGCTGGATGCCGAGGAGATGGCT  
GACTTCTATAAGGACTTTCTGAGCAAGAATTTCCAGAAGCACATGTGCTATAACCGAGACTGGTACAAGC  
GCAATTTTGCCATCACTTTTCATGGGAAGGTGCCCTGGAGAGGATGTGGAGCAAGCTGAAGCAGAA  
GCCAAAGAAGACAAGCGGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR214751 representing NM\_001037769  
**Red=Cloning site Green=Tags(s)**

MAALRPGSKALRRLRCRSFSGGGVRLARERATERRDAASSRVSRFCPPRQSDHWIGPPDKYSNLRPVHF  
HVPENESPLEQRLRELQETQEWNQFWAKQNL SFNKEKEEF IYSRLQAKGSGPRTESGQRATLDAEEMA  
DFYKDFLSKNFQKHCYNRDWYKRNF AITFFMGKVALERMWSKLGKPKKTSG

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

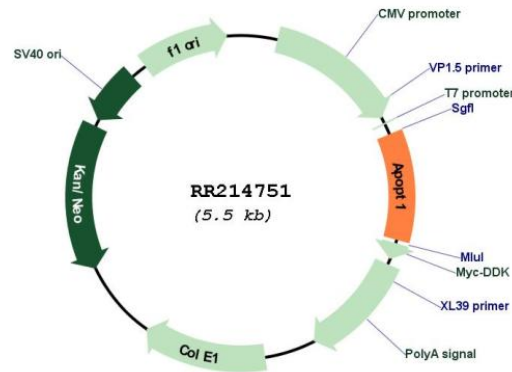


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## Cloning Scheme:



## Plasmid Map:



ACCN: NM\_001037769

ORF Size: 579 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\\_001037769.2](#), [NP\\_001032858.1](#)

**RefSeq Size:** 820 bp

**RefSeq ORF:** 582 bp

**Locus ID:** 299341

**UniProt ID:** [Q32Q90](#)

**Cytogenetics:** 6q32

**MW:** 22.8 kDa

**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]