

Product datasheet for **RC236479**

COA8 (NM_001302652) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: COA8 (NM_001302652) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: COA8
Synonyms: APOP; APOP1; APOPT1; C14orf153; MC4DN17
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC236479 representing NM_001302652
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCTGCCGTGCGCCGCGGGAGCCAGGGGGCGTGGGGCCATGGTGGTCTTGGGGCGGGGAAGAAGACCT
TTCTCCCCCTCTCTGCCGCGCCTTCGCTGCCGCGGTGTCAACTCGCTCCGGAGCGCGGCCGAGCG
CAGGGATACGGCGCCAGCGGGTCTCAAGATTCTGCCCTCCAAGAAAGTCTTGCCATGATTGGATAGGA
CCCCAGATAAATATTCAAACCTTCGACCTGTTCACTTTTACATACCTGAAAATGAATCTCCATTGGAAC
AAAAGCTTAGAAAATTAAGACAAGAAACACAAGAATGGAATCAACAGTTCTGGGCAAAACCAGAAATTTGAC
TTTTAGTAAGGAAAAAGAAGATTTATTCACTCAAGACTAAAACTAAAGGCCTGGGCCTGAGAAGTAA
TCAGGTACAGAAAGCAACATTGAATGCAGAAAGAAATGGCGGACTTCTACAAGGAATTTTTAAGTAAAAAT
TTCAGAAGCACATGTATTATAACAGATTGGTACAAGCGCAATTTTGCCATCACCTTCTTCATGGGAAAAAG
TGGCCCTGGAAAGGATTTGGAACAAGCT

ACGCGTACGCGCGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC236479 representing NM_001302652
Red=Cloning site Green=Tags(s)

MLPCAAGARGRGAMVVL RAGKKTFLPPLCRAFACRGCQLAPERGAERRDTAPSGVSRFCPPRKSCHDWIG
PPDKYSNLRPVHFYIPENESPLEQKLRKLRQETQEWNQFQWANQNLTF SKEKEEF IHSRLKTKGLGLRTE
SGQKATLNAEEMADFYKEFLSKNFQKHMYYNRLVQAQFCHHLLHGKSGPGKDLEQA

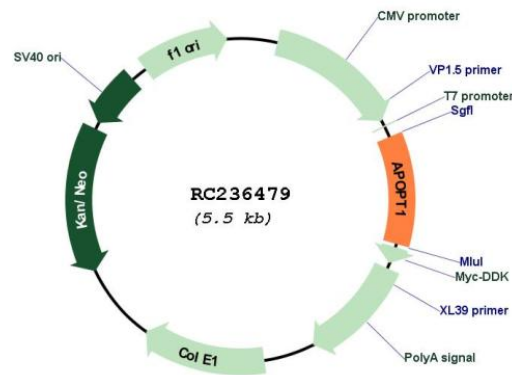
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001302652

ORF Size: 588 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_001302652.1](#), [NP_001289581.1](#)

RefSeq Size: 1247 bp

RefSeq ORF: 552 bp

Locus ID: 84334

UniProt ID: [Q96IL0](#)

Cytogenetics: 14q32.33

Protein Families: Secreted Protein

MW: 22.9 kDa

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]