

## Product datasheet for **RC236038**

### COA8 (NM\_001302654) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** COA8 (NM\_001302654) 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:** >RC236038 representing NM\_001302654  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGCTGCCGTGCGCCGCGGGAGCCAGGGGGCGTGGGGCCATGGTGGTCTTGCGGGCGGGGAAGAAGACCT  
TTCTCCCCCTCTGCGCGCCTTCGCTGCCGCGGTGCAACTCGCTCCGGAGCGCGGCCGAGCG  
CAGGGATACGGCGCCAGCGGGTCTCAAGATTCTGCCCTCCAAGAAAGTCTTGCCATGATTGGATAGGA  
CCCCCAGATAAATATTCAAACCTTCGACCTGTCACTTTTACATACCTGAAAATGAATCTCCATTGGAA  
AAAAGCTTAGAAAATTAAGACAAGAAACAAGAATGGAATCAACAGTTCTGGGCAAAACCAGAAATTTGAC  
TTTTAGTAAGGAAAAAGAAGATTTATTCACTCAAGACTAAAACTAAAGGCCTGGGCTGAGAAGTAA  
TCAGGTGGTTATGATGGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC236038 representing NM\_001302654  
Red=Cloning site Green=Tags(s)

MLPCAAGARGRGAMVVL RAGKTFLLPPLCRAFACRGCQLAPERGAERRDTAPSGVSRFCPPRKSCHDWIG  
PPDKYSNLRPVHFYIPENESPLEQKLRKLRQETQEWNQFQFANQNLTF SKEKEEF IHSRLKTKGLGLRTE  
SGGYDG

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

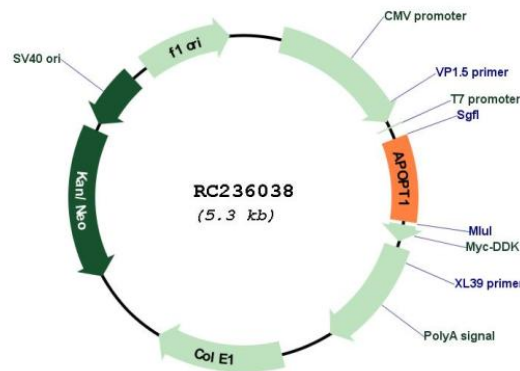


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_001302654

ORF Size: 438 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001302654.1, NP_001289583.1</u>
<b>RefSeq Size:</b>	787 bp
<b>RefSeq ORF:</b>	402 bp
<b>Locus ID:</b>	84334
<b>Cytogenetics:</b>	14q32.33
<b>Protein Families:</b>	Secreted Protein
<b>MW:</b>	17 kDa
<b>Gene Summary:</b>	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]