

## Product datasheet for SC333932

### COA8 (NM\_001302654) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	COA8 (NM_001302654) Human Untagged Clone
Tag:	Tag Free
Symbol:	COA8
Synonyms:	APOP; APOP1; APOPT1; C14orf153; MC4DN17
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC333932 representing NM_001302654. Blue=Insert sequence Red=Cloning site Green=Tag(s)

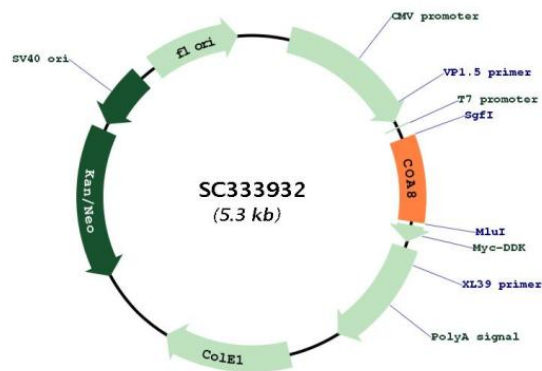
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GCTCGTTTAGTGAACCGTCAGAATTTGTAAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCTGCCGTGCGCCGCGGGAGCCAGGGGGCGTGGGGCCATGGTGGTCTTGCGGGCGGGGAAGAAGACC
TTTCTCCCCCTCTGCCGCGCCTTCGCTGCCGCGGCTGTCAACTCGCTCCGGAGCGCGGCCGCGAG
CGCAGGGATACGGCGCCAGCGGGTCTCAAGATTCTGCCCTCCAAGAAAGTCTTGCCATGATTGGATA
GGACCCCAAGATAAATATCAAACCTTCGACCTGTTCACTTTACATACCTGAAAATGAATCTCCATTG
GAACAAAAGCTTAGAAAATTAAGACAAGAAACACAAGAATGGAATCAACAGTTCTGGCAAAACCAGAAAT
TTGACTTTTAGTAAGAAAAAGAAGAATTTATTCACTCAAGACTAAAACTAAAGGCCTGGGCCTGAGA
ACTGAATCAGGTGGTTATGATGGATGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: Sgfl-MluI



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## Plasmid Map:



ACCN: NM\_001302654

Insert Size: 441 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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\\_001302654.1](#)

RefSeq Size: 787 bp

RefSeq ORF: 441 bp

Locus ID: 84334

Cytogenetics: 14q32.33

Protein Families: Secreted Protein

MW: 16.6 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]

Transcript Variant: This variant (4) lacks multiple 3' exons and contains an alternate 3' terminal exon, resulting in a distinct 3' coding region and 3' UTR, compared to variant 1. The encoded isoform (4) has a distinct, shorter C-terminus than isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.