

Product datasheet for **RG236425**

COA8 (NM_001302653) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: COA8 (NM_001302653) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: COA8
Synonyms: APOP; APOP1; APOPT1; C14orf153; MC4DN17
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG236425 representing NM_001302653.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCTGCCGTGCCCGCGGGAGCCAGGGGGCGTGGGGCCATGGTGGTCTTGCGGGCGGGGAAGAAGACC
TTTCTCCCCCTCTGCCGCGCCTTCGCTGCCGCGGCTGTCAACTCGCTCCGGAGCGCGGCCGAG
CGCAGGGATACGGCGCCAGCGGGTCTCAAGATTCTGCCCTCCAAGAAAGTCTTCCATGATTGGATA
GGACCCAGATAAATATCAAACCTTCGACCTGTTCACTTTACATACCTGAAAATGAATCTCCATTG
GAACAAAAGCTTAGAAAATTAAGACAAGAAACACAAGAATGGAATCAACAGTTCTGGCAAACAGAAAT
TTGACTTTTAGTAAGAAAAAGAAGAATTTATCACTCAAGACTAAAACTAAAGGCCTGGCCTGAGA
ACTGAATCAGACCCACTTTACCTCGGGTAACTGAAACCATGGAAAGAAAACCATGGATGGAGGGGAC
AGCTGTGCTGCCGCATCTCCCTTACACAGTCAGAAAGCAACATTGAATGCAGAAGAAATGGCGGACTT
CTACAAGGAATTTTAAAG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG236425
Blue=ORF Red=Cloning site Green=Tag(s)

```
MLPCAAGARGAMVVLKAGKTFLLPPLCRAFACRGCQLAPERGAERRDTAPSGVSRFCPPRKSCHDWI
GPPDKYSNLRPVHFIIPENESPLEQKLRKLRQETQEWNQFWANQLTFSKEKEEFIHSLRKTGKGLR
TESDPTLPRVTETMERKTMDDGDSCAAAISLTQSESNIECRRNGLLQGIFK
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPYSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

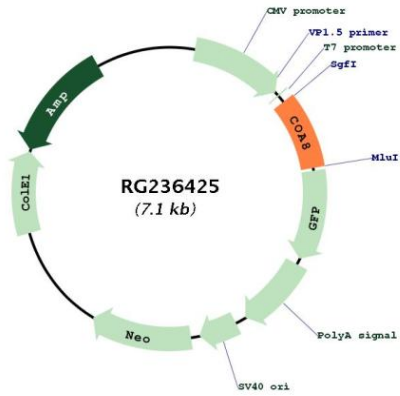
Restriction Sites: SgfI-MluI



Cloning Scheme:


- ACCN:** NM_001302653
- ORF Size:** 570 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).
- RefSeq:** [NM_001302653.1](#), [NP_001289582.1](#)
- RefSeq Size:** 1337 bp
- RefSeq ORF:** 534 bp
- Locus ID:** 84334
- UniProt ID:** [Q96IL0](#)
- Cytogenetics:** 14q32.33
- Protein Families:** Secreted Protein
- MW:** 21.8 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]

Product images:



Circular map for RG236425