

## Product datasheet for **RG237518**

### COX18 (NM\_001297732) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	COX18 (NM_001297732) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	COX18
Synonyms:	COX18HS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237518 representing NM_001297732. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGCTGTGCCGGCTCGGCGGTGGTGGCTGCGGCCGCTCCCTGCCCTGCAGCTTTGGGCTAGGGACCTG
CCGCTTGC GCGGTTCTACGAGCGGCGCAAGCGCCCACTCTCCAGTGTGGCAGTGGCACCAGTC
TCTGCAGTACATGCGAACGGCTGGTACGAGGCCCTGGCCGCGTCTTCGCCGGTGC GGGTTGCGGAGGAA
GTACTGCTCGGCGTGACGCCGCCACGGGCCTGCCCTGGTGGGCAGCATTCTGCTCTCCACCGTGGCC
TTACGGGGTGCTGTCAGCTGCCTTTGGCAGCCTACCAGCACTACATCCTGGCCAAGGTGAAAAATTTG
CAGCCAGAAATAAAAATTGCCAGGCATCTTAACCAAGAAGTTGCAGTTCGTGCAATCAGTTGGGG
TGGTCCAAAAGAGATGCCAGGCTCACTTATCTAAAGAATATGAGGAGGCTAATTCAGAGCTATATGTG
CGAGATAACTGCCACCCTTTCAAAGCCACTGTGTTGGTTGGATTGAGCTTCCAATGTGGATCTTCATG
TCTTTTGTCTCCGGAATTTAAGCACGGGGGCAGCACATTCAGAAGCAGGTTTTTCTGTTGAGGAACAG
TTAGCTACTGGTGGAAATTTCTGTGGTTTCTGACCTCACTGCACCCGACTCCACTTGGATTCTGCCTATC
TCTGTTGGCGTCATCAATTTGTTAATAGTGGAGATTTGTGCTCTACAAAAAATGGAAATGTCTCGTTTT
CAGACGTATATTACGTACTTTGTCCGTGCAATGTCGGTGTGATGATACCAATTGCTGCAACGGTACCC
TCATCAATTGTTCTCTACTGTTATGCTCCAGCTTCGTGGGCCTTTCACAGAATTTGCTGCTGCGTTCT
CCTGGATTCGCCAACTTTGCCGAATACCATCGACCAAGTCAGATTGAGAACTCCTTATAAAGACATA
TTTGCTGCCTTTAATAACCAAGTTCAATTTCAAGAAAA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG237518  
 Blue=ORF Red=Cloning site Green=Tag(s)

MLCRLGGRWLRLPALQLWARDLPLAPVPTSGAKRPTLPVWAVPVSAVHANGWYEALAASSPVRVAEE  
 VLLGVHAATGLPWWGSILLSTVALRGAVTLPLAAYQHYILAKVENLQPEIKTIARHLNQEAVRANQLG  
 WSKRDARLTYLKNMRLISELYVRDNCHPFKATVLVWIQLPMWIFMSFALRNLSTGAAHSEAGFSVQEQ  
 LATGGILWFPDLTAPDSTWILPISVGVINLLIVEICALQKIGMSRFQTYITYFVRAMSVLMIPIAATVP  
 SSIIVLYWLCSSFVGLSQNLLLRSPGFRQLCRIPSTKSDSETPYKDIFAAFNTKFI SRK  
**TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV**  
 MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRS NATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001297732

**ORF Size:** 1002 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\\_001297732.2](#)

**RefSeq Size:** 4533 bp

**RefSeq ORF:** 1005 bp

Locus ID: 285521

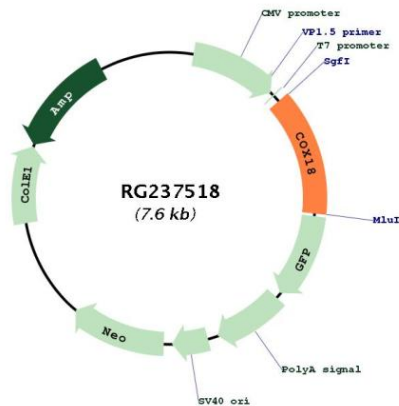
Cytogenetics: 4q13.3

Protein Families: Transmembrane

MW: 37.6 kDa

Gene Summary: This gene encodes a cytochrome c oxidase assembly protein. The encoded protein is essential for integral membrane protein insertion into the mitochondrial inner membrane. It is also required for cytochrome c oxidase assembly and activity. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]

### Product images:



Circular map for RG237518