

Product datasheet for **MG217163**

Cox18 (NM_001163456) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cox18 (NM_001163456) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Cox18
Synonyms: BC038311
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG217163 representing NM_001163456
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTGTGCCGGTCGTGTGCCGGTGGCTCAGGTCGTCGCCACCCTGCGGCTCCCGGCACCGAGATCAC
 CGCCCGCTGGAGCAGCGCGGGCTCCAGCCCTCCGGTATGGGCAGCCGCTTCGGTGTCTGCGGCCTC
 TCCAGGTGGTGGTATGAGGCCCTGGCAGCGTCGGCGCCGGTGGCACCAGGAGGAAGTGTCTGGGC
 GCGCAGGAGGCTACCGGCTCCCTGGTGGAGCAACATCATACTCAGCACCGTTGCCCTGCGCGGTGCTG
 TCACTCTGCCCTGGCCGCTATCAGCACTACATCCTGGCTAAGGTGAAAACCTGCAACCAGAAATAAA
 AGACATCGCCAAGCGCCTTAACCAAGAAGTTGAGTCTGTGCCCGTCAGTTTGGATGGTCCAAGAGAGTG
 GCTAGACTCACCTATCTGAAGAATGCGGAGACTTGTCTCAGAGCTGTATGTCCGTGACAACTGCCACC
 CTTTCAAAGCCACGGTGTGGTCTGGGTCCAGCTTCCAATGTGGGTTTTTCATCTCTGTGCCCTCCGGAA
 CCTCAGCACTGGGGCCACACATTCAGACGGCATTTCTGTTAGGAACAGTTAGCTGCTGGCGGGACGCTG
 TGGTTTCTGACCTACCGCAGTGGATTCCACCTGGATTCTGCCTGTCTCTGTTGGTGTGTCAACCTAC
 TGATAGTGGAGATTTTGTCTACAAAAAATTGGGACGCTCGTTTTCAAATGCATGTTACAAATTTTGT
 CCGAGCTGTATCCGTGTGATGATTCCAGTTGCTGCAACAGTACCCTCGGCGCTTGTCTCTACTGGCTG
 TGCTCCAGCCTCATGGGCTCGCACAGAACCTGCTGCTGCGCTCCCTGGGTTCCGCCAGCTCTGCCGGA
 TACCACCAAGCAAGTCCGACTCAGAGACCCGTACCGAGACCTCTCTGCTGCCTTTTGCGCCAAGTTCCT
 TTCAAGAAAACGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG217163 representing NM_001163456
Red=Cloning site Green=Tags(s)

MLCRSCAGWLRSLPTLRLPAPRSPPAWSSARLPALPVWAAASVSAASPGGWYEAL AASAPVRTAEEVLLG
 AQEATGLPWWNSIILSTVALRGAVTLPLAAYQHLYLAKVENLQPEIKDIAKRLNQEVAVCARQFGWSKRV
 ARLTYLKNMRRVLSELYVRDNCHPFKATVLVWVQLPMWVFISVALRNLSTGATHSDGISVQEQLAAGGTL
 WFPDLTAVDSTWILPVS VGVVNL L IVEIFALQKIGTSRFQMHVTNFVRAVSVLMIPVAATVPSALVLYWL
 CSSLMGLAQNL L L RSPGFRQLCRIPPSKSDSETPYRDLSAAFCAKFLSRKR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001163456

ORF Size: 996 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_001163456.1](#), [NP_001156928.1](#)

RefSeq Size: 1341 bp

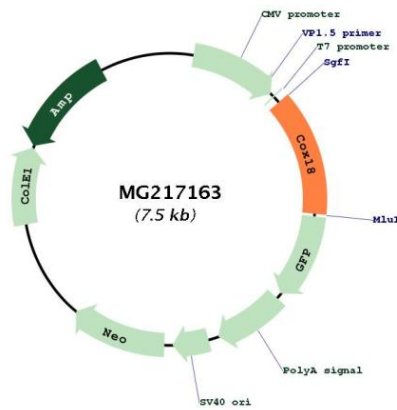
RefSeq ORF: 999 bp

Locus ID: 231430

Cytogenetics: 5 E1

Gene Summary: Mitochondrial membrane insertase required for the translocation of the C-terminus of cytochrome c oxidase subunit II (MT-CO2/COX2) across the mitochondrial inner membrane. Plays a role in MT-CO2/COX2 maturation following the COX20-mediated stabilization of newly synthesized MT-CO2/COX2 protein and before the action of the metallochaperones SCO1/2. Essential for the assembly and stability of the mitochondrial respiratory chain complex IV (also known as cytochrome c oxidase).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG217163