

Product datasheet for **RC231569**

COX16 (NM_001204090) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: COX16 (NM_001204090) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: COX16
Synonyms: C14orf112; hCOX16; HSPC203
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC231569 representing NM_001204090
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTTGCACCCGCGGTGATGCGTGCTTTTCGCAAGAACAAGACTCTCGGCTATGGAGTCCCATGTTGA
TGGATCCTGAGCTTGAAAAAACTGAAAGAGAATAAAATATCTTTAGAGTCGGAATATGAGAAAATCAA
AGACTCCAAGTTTGATGACTGGAAGAATATTCGAGGACCCAGGCCTTGGGAAGATCTGACCTCTCCAA
GGAAGAAATCCAGAAAGCCTTAAGACTAAGACAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC231569 representing NM_001204090
Red=Cloning site Green=Tags(s)
MFAPAVMRAFRKNKTLGYVPMMLDPELEKCLKENKISLESEYEKIKDSKFDDWKNIRGPRPWEDPDLQ
GRNPESLKTKTT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_001204090

ORF Size: 246 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_001204090.2](#)

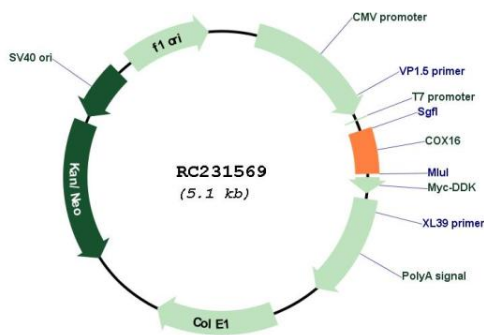
RefSeq Size: 1652 bp

RefSeq ORF: 249 bp

Locus ID: 51241
UniProt ID: [Q9P0S2](#)
Cytogenetics: 14q24.2
Protein Families: Secreted Protein, Transmembrane
MW: 10.1 kDa

Gene Summary: Required for the assembly of the mitochondrial respiratory chain complex IV (CIV), also known as cytochrome c oxidase (PubMed:29355485, PubMed:29381136). Promotes the insertion of copper into the active site of cytochrome c oxidase subunit II (MT-CO2/COX2) (PubMed:29355485, PubMed:29381136). Interacts specifically with newly synthesized MT-CO2/COX and its copper center-forming metallochaperones SCO1, SCO2 and COA6 (PubMed:29381136). Probably facilitates MT-CO2/COX2 association with the MITRAC assembly intermediate containing MT-CO1/COX1, thereby participating in merging the MT-CO1/COX1 and MT-CO2/COX2 assembly lines (PubMed:29381136).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC231569