

Product datasheet for **RC210770**

COX19 (NM_001031617) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: COX19 (NM_001031617) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: COX19
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC210770 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGACCGCCATGAATTTGGGACCAAGAGCTTCCAGCCGGGCCCGGACAAGGGCAGCTTCCCGC
TGGATCACTTAGGTGAATGTAAAAGCTTTAAAGAGAAATTCATGAAGTGTCTTATAACAATAATTTGA
AAATGCTTTGTGCAGAAAGGAATCAAAGAATATTTAGAATGCAGGATGGAGAGAAAATTTGATGCTACAA
GAACCATTGGAGAACTGGGATTTGGAGACTTGACTAGTGAAAAATCAGAGGCAAAAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC210770 protein sequence
Red=Cloning site Green=Tags(s)
MSTAMNFGTKSFQPRPPDKGSFPLDHLGECKSFKEKFMKCLHNNNFENALCRKESKEYLECRMERKMLMQ
EPLKLGFGDLTSGKSEAKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6544_g06.zip

Restriction Sites: SgfI-MluI



[View online »](#)

Cloning Scheme:


ACCN: NM_001031617

ORF Size: 270 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_001031617.3](#)

RefSeq Size: 4896 bp

RefSeq ORF: 273 bp

Locus ID: 90639

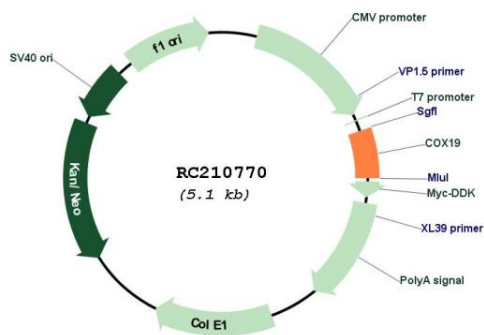
UniProt ID: [Q49B96](#)

Cytogenetics: 7p22.3

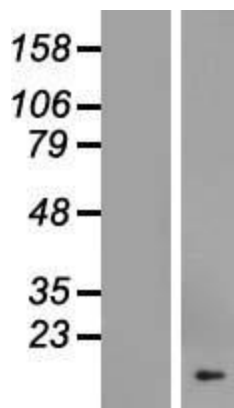
MW: 10.4 kDa

Gene Summary: COX19 encodes a cytochrome c oxidase (COX)-assembly protein. The *S. cerevisiae* Cox19 protein may play a role in metal transport to the mitochondrial intermembrane space and assembly of complex IV of the mitochondrial respiratory chain (Sacconi et al., 2005 [PubMed 16212937]).[supplied by OMIM, Mar 2008]

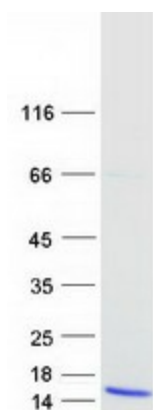
Product images:



Circular map for RC210770



Western blot validation of overexpression lysate (Cat# [LY422214]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210770 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified COX19 protein (Cat# [TP310770]). The protein was produced from HEK293T cells transfected with COX19 cDNA clone (Cat# RC210770) using MegaTran 2.0 (Cat# [TT210002]).