

Product datasheet for RC201999

COX7B (NM_001866) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: COX7B (NM_001866) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: COX7B
Synonyms: APLCC; LSDMCA2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC201999 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTTCCCTTGGTCAAAGCGCACTAAATCGTCTCCAAGTTCGAAGCATTAGCAAAACAATGGCAAGGC
AGAGCCACCAGAAACGTACACCTGATTTTCATGACAAATACGGTAATGCTGTATTAGCTAGTGGAGCCAC
TTTCTGTATTGTTACATGGACATATGTAGCAACACAAGTCGGAATAGAATGGAACCTGTCCCTGTTGGC
AGAGTTACCCAAAGGAATGGAGGAATCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC201999 protein sequence
Red=Cloning site Green=Tags(s)
MFPLVKSALNRLQVRSIQQTMARQSHQKRTPDFHDKYGNVAVLASGATFCIVTWTYVATQVGIWNLSVPG
RVTPKEWRNQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6304_g07.zip

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_001866

ORF Size: 240 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_001866.3](#)

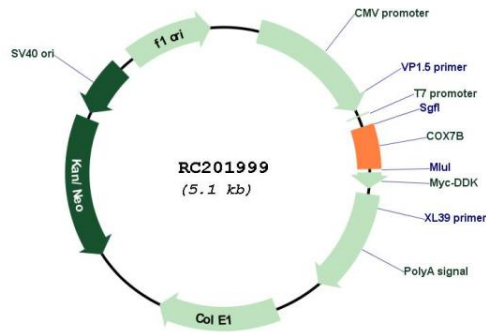
RefSeq Size: 456 bp

RefSeq ORF: 243 bp

Locus ID: 1349

UniProt ID: [P24311](#)
Cytogenetics: Xq21.1
Protein Pathways: Alzheimer's disease, Cardiac muscle contraction, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease
MW: 9.2 kDa
Gene Summary: Cytochrome c oxidase (COX), the terminal component of the mitochondrial respiratory chain, catalyzes the electron transfer from reduced cytochrome c to oxygen. This component is a heteromeric complex consisting of 3 catalytic subunits encoded by mitochondrial genes and multiple structural subunits encoded by nuclear genes. The mitochondrially-encoded subunits function in electron transfer, and the nuclear-encoded subunits may function in the regulation and assembly of the complex. This nuclear gene encodes subunit VIIb, which is highly similar to bovine COX VIIb protein and is found in all tissues. This gene may have several pseudogenes on chromosomes 1, 2, 20 and 22. [provided by RefSeq, Jun 2011]

Product images:



Circular map for RC201999