

Product datasheet for **RC200374**

Cytochrome C Oxidase subunit VIc (COX6C) (NM_004374) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cytochrome C Oxidase subunit VIc (COX6C) (NM_004374) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: Cytochrome C Oxidase subunit VIc
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC200374 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCCCGAAGTTTTGCCAAAACCTCGGATGCGTGGCCTTCTGGCCAGGCGTCTGCGAAATCATATGG
CTGTAGCATTCTGTCTATCCCTGGGGTTGCAGCTTTGTATAAGTTTCGTGTGGCTGATCAAGAAAAGAA
GGCATACGCAGATTTCTACAGAACTACGATGTCATGAAAGATTTTGAGGAGATGAGGAAGGCTGGTATC
TTCAGAGTGTAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC200374 protein sequence
Red=Cloning site Green=Tags(s)

MAPEVLPKPRMRGLLARRLRNHMAVAVLVLGVAALYKFRVADQRKKAYADFYRNYDVMKDFEEMRKAGI
FQSVK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6388_f07.zip

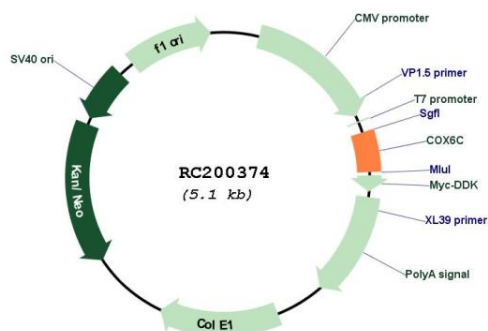
Restriction Sites: SgfI-MluI



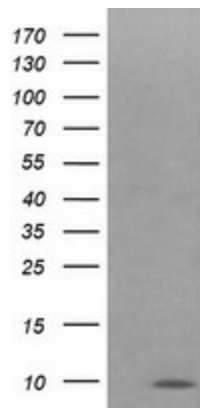
[View online »](#)

RefSeq Size:	921 bp
RefSeq ORF:	228 bp
Locus ID:	1345
UniProt ID:	P09669
Cytogenetics:	8q22.2
Domains:	COX6C
Protein Families:	Transmembrane
Protein Pathways:	Alzheimer's disease, Cardiac muscle contraction, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease
MW:	8.8 kDa
Gene Summary:	Cytochrome c oxidase, the terminal enzyme of the mitochondrial respiratory chain, catalyzes the electron transfer from reduced cytochrome c to oxygen. It 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 be involved in the regulation and assembly of the complex. This nuclear gene encodes subunit VIc, which has 77% amino acid sequence identity with mouse subunit VIc. This gene is up-regulated in prostate cancer cells. A pseudogene has been found on chromosomes 16p12. [provided by RefSeq, Jul 2010]

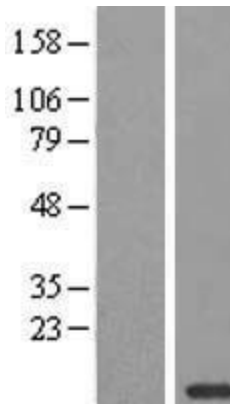
Product images:



Circular map for RC200374



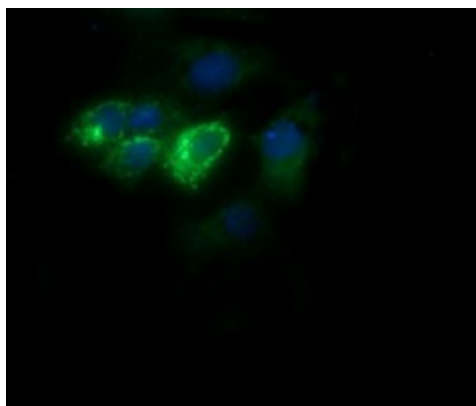
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY COX6C (Cat# RC200374, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-COX6C (Cat# [TA506179]). Positive lysates [LY418028] (100ug) and [LC418028] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY418028]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200374 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified COX6C protein (Cat# [TP300374]). The protein was produced from HEK293T cells transfected with COX6C cDNA clone (Cat# RC200374) using MegaTran 2.0 (Cat# [TT210002]).



Anti-COX6C mouse monoclonal antibody ([TA506179]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY COX6C (RC200374).