

## Product datasheet for RC200957

### Cytochrome C Oxidase subunit VIb (COX6B1) (NM\_001863) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cytochrome C Oxidase subunit VIb (COX6B1) (NM\_001863) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** COX6B1  
**Synonyms:** COX6B; COXG; COXVIb1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC200957 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGCGGAAGACATGGAGACAAAATCAAGAACTACAAGACCGCCCTTTTGACAGCCGCTTCCCCAACCC  
AGAACCAGACTAGAAACTGCTGGCAGAACTACCTGGACTTCCACCGCTGTCAGAAGGCAATGACCGCTAA  
AGGAGGCGATATCTCTGTGTGCGAATGGTACCAGCGTGTGTACCAGTCCCTCTGCCCCACATCCTGGGTC  
ACAGACTGGGATGAGCAACGGGCTGAAGGCACGTTTCCCGGAAGATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC200957 protein sequence  
Red=Cloning site Green=Tags(s)

MAEDMETIKNYKTAPFDSRFPNQNRNCWQNYLDFHRCQKAMTAKGGDISVCEWYQRVYQSLCPTSWV  
TDWDEQRAEGTFPGKI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6399\\_d03.zip](https://cdn.origene.com/chromatograms/mk6399_d03.zip)

**Restriction Sites:** SgfI-MluI

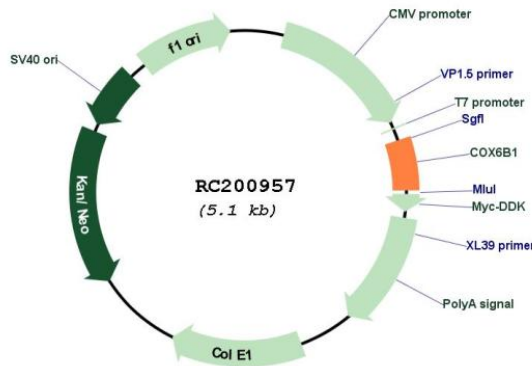


[View online »](#)

Cloning Scheme:



Plasmid Map:



ACCN:

NM\_001863

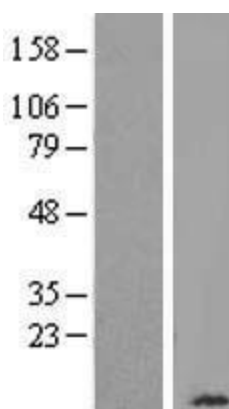
ORF Size:

258 bp

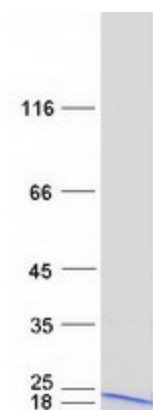
OTI Disclaimer:

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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>RefSeq:</b>	<a href="#">NM_001863.5</a>
<b>RefSeq Size:</b>	590 bp
<b>RefSeq ORF:</b>	261 bp
<b>Locus ID:</b>	1340
<b>Domains:</b>	COX6B
<b>Protein Pathways:</b>	Alzheimer's disease, Cardiac muscle contraction, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease
<b>MW:</b>	10.2 kDa
<b>Gene Summary:</b>	Cytochrome c oxidase (COX), 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 VIb. Mutations in this gene are associated with severe infantile encephalomyopathy. Three pseudogenes COX6BP-1, COX6BP-2 and COX6BP-3 have been found on chromosomes 7, 17 and 22q13.1-13.2, respectively. [provided by RefSeq, Jan 2010]

**Product images:**


Western blot validation of overexpression lysate (Cat# [LY419691]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200957 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified COX6B1 protein (Cat# [TP300957]). The protein was produced from HEK293T cells transfected with COX6B1 cDNA clone (Cat# RC200957) using MegaTran 2.0 (Cat# [TT210002]).