

Product datasheet for SC117420

Cytochrome C Oxidase subunit VIc (COX6C) (NM_004374) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cytochrome C Oxidase subunit VIc (COX6C) (NM_004374) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cytochrome C Oxidase subunit VIc
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_004374, the custom clone sequence may differ by one or more nucleotides

ATGGCTCCCGAAGTTTTGCCAAAACCTCGGATGCGTGGCCTTCTGGCCAGGCGTCTGCGAAATCATATGG
CTGTAGCATTTCGTGCTATCCCTGGGGTTGCAGCTTTGTATAAGTTTCGTGTGGCTGATCAAGAAAGAA
GGCATACGCAGATTTCTACAGAACTACGATGTCATGAAAGATTTTGAGGAGATGAGGAAGGCTGGTATC
TTTCAGAGTGTAAGTAA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_004374 unedited
GCACGAGGGGACGTTGGTGTGAGGTTAGCATACGNTATCAGGACAGTAACTACCATGGC
TCCCGAAGTTTTGCCAAAACCTCGGATGCGTGGCCTTCTGGCCAGGCGTCTGCGAAATCA
TATGGCTGTAGCATTTCGTGCTATCCCTGGGGTTGCAGCTTTGTATAAGTTTCGTGTGGC
TGATCAAGAAAGAAAGGCATACGCAGATTTCTACAGAACTACGATGTCATGAAAGATTT
TGAGGAGATGAGGAAGGCTGGTATCTTTTCAGAGTGTAAGTAATCTTGAATATAAGAA
TTTCTTCAGGTTGAATTACCTAGAAGTTTGTCACTGACTTGTGTTCCCTGAACTATGACAC
ATGAATATGTGGCTAAGAAATAGTTCCCTTGTATAAAATAACAATTAACANATANNA
AA
AA

Restriction Sites:	NotI-NotI
ACCN:	NM_004374
Insert Size:	4540 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none">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_004374.2 , NP_004365.1
RefSeq Size:	444 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
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]