

Product datasheet for **SC122677**

COX6A1 (NM_004373) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	COX6A1 (NM_004373) Human Untagged Clone
Tag:	Tag Free
Symbol:	COX6A1
Synonyms:	CMTRID; COX6A; COX6AL
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_004373 edited AAATGGCGGTAGTTGGTGTGCCTCGGTTTCTCGGCTGCTGGGTCGGTCCC GCCCACAGC TGGGGCGGCCTATGTCGAGTGGCGCCCATGGCGAAGAGGGCTCAGCTCGCATGTGAAGA CTCTCACCTTCTTCGTGCGCTCCCCGGGTGGCAGTCAGCATGCTGAATGTGTACTGA AGTCGCACCACGAGAGCACGAGAGACCCGAGTTCATCGCCTACCCCATCTCCGCATCA GGACCAAGCCGTTTCCCTGGGGAGATGGTAACCATACTCTATTCCATAACCCTCATGTGA ATCCACTTCCAACCTGGCTACGAAGATGAATAAAGAGAATCTGGACCACTACCCGGGCACC AGGGACCACAGCACTGGTTTGGACCGTACTCTGCACATGGACCAGAAAAAGTATATGGG ACCTTAAGCTCACCTTCTTACTTGTATCAAATGATGACTGGTATACTGGTCTCCCATCC CTTTGCTTGTGGCAGGAGATGGCTTAAATAAATAACTTAAACTTAAAAAAAAAAAAAAAA AAA



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_004373 unedited NNCCATGGCGNCATTTGTATACGACTCACTATAGGCGGCCGCGATTTCGGCACGAGGAATG GCGGTAGTTGGTGTGTCTCGGTTTCTCGGCTGCTGGGTCCGCCCCACAGCTGGGG CGGCCTATGTCGAGTGGCGCCCATGGCGAAGAGGGCTCAGCTCGCATGTGGAAGACTCTC ACCTTCTTCGTCGCGCTCCCCGGGTGGCAGTCAGCATGCTGAATGTGTACCTGAAGTCG CACCACGGAGAGCAGAGAGACCCGAGTTCATCGCCTACCCCATCTCCGCATCAGGACC AAGCCGTTTCCCTGGGGAGATGGTAACCATACTCTATTCCATAACCCCTCATGTGAATCCA CTTCCTAACTGGCTACGAAGATGAATAAAGAGAATCTGGACCACTACCCGGGCACCAAGGA CCACAGCACTGGTTTGGACCGTTACTCTGCACATGNGACCATGAAAAAGTATATGGGACC TTAAGCTCACCTTCTTTACTTGTATCAAATGATGACTGGTATACTGGTCTCCCATCCCTT TGCTTGTGGCAGGAGATGGCTTAAATAAACTTAAACTTAAAAAAAAAAAAAAAAAAAA CTCGACTTAGATTGGGCGCGGTTCATAGCTGTTTCTGAACAGATCCCGGTGGCATC CCTGTGACCCCTCCCAAGTGCCTCTCTGGCCCTGGAAGTTGCCACTCCAGTGCCACCA GCCCTGCCTAATAAAATTAGGTTGCATCATTTTGTCTGACTAGGTGTCCTTCTATAATA TTATGGGGTGAAGGGGGTGGTATGGAGCAGGGGCCAGTTTGGGAAAACCACTGTAAGC CCGGCGGGTCTATTGGGACCAAGCCGGGATGCAGGGGCCCAAT
Restriction Sites:	Please inquire
ACCN:	NM_004373
Insert Size:	552 bp
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_004373.2 , NP_004364.2
RefSeq Size:	548 bp
RefSeq ORF:	330 bp
Locus ID:	1337
UniProt ID:	P12074
Cytogenetics:	12q24.2
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 (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 the electron transfer and the nuclear-encoded subunits may function in the regulation and assembly of the complex. This nuclear gene encodes polypeptide 1 (liver isoform) of subunit VIa, and polypeptide 1 is found in all non-muscle tissues. Polypeptide 2 (heart/muscle isoform) of subunit VIa is encoded by a different gene, and is present only in striated muscles. These two polypeptides share 66% amino acid sequence identity. It has been reported that there may be several pseudogenes on chromosomes 1, 6, 7q21, 7q31-32 and 12. However, only one pseudogene (COX6A1P) on chromosome 1p31.1 has been documented. [provided by RefSeq, Jul 2008]