

## Product datasheet for **SC126284**

### COX4 (COX4I2) (NM\_032609) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** COX4 (COX4I2) (NM\_032609) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** COX4  
**Synonyms:** COX4; COX4-2; COX4B; COX4L2; COXIV-2; dj857M17.2  
**Mammalian Cell Selection:** None  
**Vector:** [pCMV6-XL5](#)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_032609 edited  
CGTTGCTCGCTGGGCAGACCCAGGTCGCGCTCCCACTGCCGAGCCCGCGAGATGCTCCCC  
AGAGCTGCCTGGAGCTTGGTGTGAGGAAAGGTGGAGGTGGAAGACGAGGGATGCACAGC  
TCAGAAGGCACCACCCGTGGTGGGGGAAGATGTCCCCCTACACCAACTGCTATGCCAG  
CGCTACTACCCCATGCCAGAAGAGCCCTTCTGCACAGAACTCAACGCTGAGGAGCAGGCC  
CTGAAGGAGAAGGAGAAGGGAAGCTGGACCCAGCTGACCCACGCCGAAAAGGTGGCCTTG  
TACCGGCTCCAGTTCAATGAGACCTTTGCGGAGATGAACCGTCGCTCCAATGAGTGAAG  
ACAGTGATGGGTTGTGTCTTCTTCTTATTGGATTGCGAGCTCTGGTGATTTGGTGGCAG  
CGGGTCTACGTATTTCTCCAAAGCCGATCACCTTGACGGACGAGCGGAAAGCCAGCAG  
CTGCAGCGCATGCTGGACATGAAGGTGAATCCTGTGCAGGGCCTGGCCTCCCGCTGGGAC  
TATGAGAAGAAGCAGTGAAGAAGTGACTTGCATCCCCAGCTGTCTCCCTGAGGCTCCGC  
CCTGGCTGGGAGCCTCTGGCGGCCCTCCCTCCCTGCCCTTAACCCAGTAAAGCTCC  
AAAAAAAAAAAAAAAAA



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_032609 unedited GGTTCTTATTTGTATACGACTACTATAGGCGGCCGCGTAATTCTCGAGCTCTAGCGAGGT GACAGCGTAGAACCCAGCGTTGCTCGCTGGGCAGACCCAGGTGCGCTCCCACTGCCGAGC CCGCGAGATGCTCCCCAGAGCTGCCTGGAGCTTGGTGCTGAGGAAAGGTGGAGGTGGAAG ACGAGGGATGCACAGCTCAGAAGCACCACCCGTGGTGGGGGAAGATGTCCCCCTACAC CAACTGCTATGCCAGCGCTACTACCCATGCCAGAAGAGCCCTTCTGCACAGAACTCAA CGCTGAGGAGCAGGCCCTGAAGGAGAAGGAGAAGGGAAGCTGGACCCAGCTGACCCACGC CGAAAAGGTGGCCTTGTACCGCTCCAGTTCAATGAGACCTTTGCGGAGATGAACCGTCG CTCCAATGAGTGAAGACAGTGATGGGTTGTCTTCTTCTTATTGGATTTCGACGCTCT GGTGATTTGGTGGCAGCGGGTCTACGTATTTCTCCAAAGCCGATCACCTTGACGGACGA GCGGAAAGCCCAGCAGCTGCAGCGCATGCTGGACATGAAGGTGAATCCTGTGCAGGGCCT GGCCTCCCCTGGGACTATGAGAAGAAGCAGTGAAGAAGTGACTTGCATCCCCAGCTGT CTCCCTGAGGCTCCGCCCTGGCTGGGAGCCTCTGGCGGCCCTCCCCTCCCCTGCCCTT ACCCCCAGTAAGCTCCCCAAAAAAAAAAAAAAAACTCCAGCGCTTGATCCCGCCATAAGG GCCTGATCCCTTCNAGGGGGGCCCGGTACCGATATCAAGCTTGTGCGACTTANTTGCGGC CGCGGTATAGCTGTTTTCTGACAGATCCCCGGTGGCATCCCTGTGACCCCTCCAGT GCCTCTTCTGGCCCTGGAAGTTGCCACTCCAGTGC
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_032609
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_032609.2</a> , <a href="#">NP_115998.2</a>
<b>RefSeq Size:</b>	684 bp
<b>RefSeq ORF:</b>	516 bp
<b>Locus ID:</b>	84701
<b>UniProt ID:</b>	<a href="#">Q96KJ9</a>
<b>Cytogenetics:</b>	20q11.21
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	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 electron transfer, and the nuclear-encoded subunits may be involved in the regulation and assembly of the complex. This nuclear gene encodes isoform 2 of subunit IV. Isoform 1 of subunit IV is encoded by a different gene, however, the two genes show a similar structural organization. Subunit IV is the largest nuclear encoded subunit which plays a pivotal role in COX regulation. [provided by RefSeq, Jul 2008]