

Product datasheet for SC116566

COX17 (NM_005694) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: COX17 (NM_005694) Human Untagged Clone
Tag: Tag Free
Symbol: COX17
Mammalian Cell Selection: None
Vector: pCMV6-XL5
E. coli Selection: Ampicillin (100 ug/mL)
Fully Sequenced ORF: >OriGene ORF within SC116566 sequence for NM_005694 edited (data generated by NextGen Sequencing)
 ATGCCGGTCTGGTTGACTCAAACCCTGCCCGCCTGAGTCTCAGGAGAAGAAGCCGCTG
 AAGCCCTGCTGCGCTTGCCCGGAGACCAAGAAGCGCGCGATGCGTGTATCATCGAGAAA
 GGAGAAGAACAACACTGTGGACATCTAATTGAGGCCACAAGGAATGCATGAGAGCCCTAGGA
 TTAAAAATATGA

Clone variation with respect to NM_005694.1

5' Read Nucleotide Sequence: >OriGene 5' read for NM_005694 unedited
 GCACGAGGGACTGCCGGAAGTACTGCGGACGAATCGGCGTTTGCCGAGGCTGGCATAGA
 TTTGGCTGTCTCCGCTCATAGCTGCTTTTGGCGGAAAGATGCCGGTCTGGTTGACTCA
 AACCCCTGCCCGCCTGAGTCTCAGGAGAAGAAGCCGCTGAAGCCCTGCTGCGCTTGCCCG
 GAGACCAAGAAGGCGCGCGATGCGTGTATCATCGAGAAAGGAGAAGAACAACACTGTGGACAT
 CTAATTGAGGCCACAAGGAATGCATGAGAGCCCTAGGATTTAAAAATATGAAATGGTGGT
 CTGCTGTGTGAATAAATAATTCCTGAAGAATGAAGAAGATTAATTTGGGAGTTCTTTGA
 CGAACTTTGATATGTGAAAAAAGTATTTATAATTTATTGTAAGAAGAAAGTAAAAATTA
 CTAGTGAAAAAAGTAAAAAAGTAAAAAAGTAAAAAAGTAAAAAAGTAAAAAAGTAAAAAAGT
 TCCTGAACAGATCCCGGGTGGCATCCCTGTGACCCCTCCCAAGTGCCTCTCCTGGCCCTG
 GAAGTTGCCACTCCAGTCCCAAGCCTTGTCTTAATAAAATTAAGTTGCATCATTTTG
 TCTGACTAGGTGCCTTC



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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_005694 unedited GACGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTCCACTAGTAATATTTTA CTTTCTTCTTACAATAAATTATAAATACTTTTTCCACATATCAAAGTTCGCAAAGAACT CCCAAAATTAATCTTCTTCTTATTCTCAGGAATTTTATTACACAGCAGACCACCATTT CATATTTTAAATCCTAGGGCTCTCATGCATTCTTGTGGGCCTCAATTAGATGTCCACAG TGTTCTTCTCCTTCTCGATGATACACGCATCGCGCGCCTTCTTGGTCTCCGGGCAAGCG CAGCAGGGCTTTCAGCGGCTTCTTCTCCTGAGACTCAGGCGGGGCAGGGTTTGAGTCAACC AGACCCGGCATCTTTCGCGCCAAAAGCAGCTATGAGCGGAGACGCCAAATCTATGCCAG CCTCGGCAAACGCCGATTCTGTCGCGCAGTCACTTCCGGCAGTCCCTCGTGCCGAATTCGCG GCCGCCCTATAGTGAGTCGTATTACAAAATTCTGACGGTCACTAAACGAGCTCTGCTTA TATAGACCTCCCACCGTACACGCCTACCGCCATTTGCGTCAACGGGGCGGGTTATTAC GACATTTTGAAAGTCCCGTTGATTTTGGTGCCAAAACAACTCCCATTGACGTCAATGG GGGTGGAGACTTGAAATCCCCGTGAGTCAAACCGCTATCCACGCCATTGGTGTACTGC CAAACCGCATCACCATGGAATAGCGATGACTAATACGTAGATGTACTGCCAAGTANGA AAGTCCCCTAAGTCATGTACTGGGCATAATGCCAGGCGGGCCATTTACCGTCATTGACGT CCATAGGGGGGCCGACCTGGCATATGATACACTTGATGTACTGCCAAGTGGGCAGTTTAC CGTAATACTCCCC
Restriction Sites:	NotI-NotI
ACCN:	NM_005694
Insert Size:	460 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:	<u>NM_005694.1</u> , <u>NP_005685.1</u>
RefSeq Size:	423 bp
RefSeq ORF:	192 bp
Locus ID:	10063
UniProt ID:	<u>Q14061</u>
Cytogenetics:	3q13.33
Protein Pathways:	Metabolic pathways, Oxidative phosphorylation

Gene Summary:

Cytochrome c oxidase (COX), the terminal component of the mitochondrial respiratory chain, catalyzes the electron transfer from reduced cytochrome c to oxygen. This component 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 function in the regulation and assembly of the complex. This nuclear gene encodes a protein which is not a structural subunit, but may be involved in the recruitment of copper to mitochondria for incorporation into the COX apoenzyme. This protein shares 92% amino acid sequence identity with mouse and rat Cox17 proteins. This gene is no longer considered to be a candidate gene for COX deficiency. A pseudogene COX17P has been found on chromosome 13. [provided by RefSeq, Jul 2008]