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Product datasheet for SC118992

COX7C (NM_001867) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	COX7C (NM_001867) Human Untagged Clone
Tag:	Tag Free
Symbol:	COX7C
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118992 sequence for NM_001867 edited (data generated by NextGen Sequencing) ATGTTGGGCCAGAGCATCCGGAGGTTCACAACCTCTGTGGTCCGTAGGAGCCACTATGAG GAGGGCCCTGGGAAGAATTTGCCATTTTCAGTGGAAAACAAGTGGTCGTTACTAGCTAAG ATGTGTTTGTACTTTGGATCTGCATTTGCTACACCCTTCCTTGTAGTAAGACACCAACTG CTTAAAACATAA Clone variation with respect to NM_001867.2
5' Read Nucleotide Sequence:	>OriGene 5' read for NM_001867 unedited TGTAGATTTTGTAATACGACTCACTATTAGGGCGGCCGCGAATTCGCACGAGGCCGGGGA ACAAGGTCGTGAAAAAAAGGTCTTGGTGAGGTGCCGCCATTTCATCTGTCCTCATTCTCT GCGCCTTTCGCAGAGCTTCCAGCAGCGGTATGTTGGGCCAGAGCATCCGGAGGTTCACAA CCTCTGTGGTCCGTAGGAGCCACTATGAGGAGGGCCCTGGGAAGAATTTGCCATTTTCAG TGGAAAACAAGTGGTCGTTACTAGCTAAGATGTGTTTGTACTTTGGATCTGCATTTGCTA CACCCTTCCTTGTAGTAAGACACCAACTGCTTAAAACATAAGGATGTTTCAGTTCCTCCA TTTAACAGATATGAAGAGCATTTTAAGAGGTGCAGCCTCTGGAAGTGGATCAAACTAGAA CTCATATGCCATACTAGATATGTTTGTCAATAAACTTATGACGTGAAAAAAAAAAAAAAA AAACTCGACTCTAGATTGCGGCCGCGGTCATAGCTGTTTCCTGAACAGATCCCGGGTGGC ATCCCTGTGACCCCTCCCCAGTGCCTCTCCTGGCCCTGGAAGTTGCCACTCCAGTGCCCA CCAGCCTTGTCCTAATAAAATTAAGTTGCATCATTTTGTCTGACTAGGTGTCCTTCTATA ATATTATGGGGTGGAGGGGGGTGGTATGGAGCAAGGGCAAGTTGGGAAGACACCCTGTAG GCCTGCGGGGCCTATTGGGACCAGGCTGGATGCAGTGGCACATCCTGGGTCACTGCATTT CCGCTCCTGGGTTAAGCGATCTCCTGCCCAAGCCCCCCAGTTGTGGGTTCCCGGCTGCTT GACAGGCTCACTAATTTTGTTTTTTTGGAGAGAACGGGTTTCACATTTTGGCCAGGCTGG GCTCCACTTC

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3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001867 unedited
AAATTCTGCACNCGCGGCCGCAATTTTACGATCGAGTTTTTTTTTTTTTTTTTCACGTC
ATAAGTTTATTGACAAACATATCTAGTATGGCATATGAGTTCTAGTTTGATCCACTTCCA
GAGGCTGCACCTTTTAAAATGCTCTTCATATCTGTTAAATGGAGGAACTGAAACATCCTT
ATGTTTTAAGCAGTTGGTGTCTTACTACAAGGAAGGGTGTAGCAAATGCAGATCCAAAGT
ACAAACACATCTTAGCTAGTAACGACCACTTGTTTTCCACTGAAAATGGCAAATTCTTCC
CAGGGCCCTCCTCATAGTGGCTCCTACGGACCACAGAGGTTGCGAACCTCCGGATGCTCT
GGCCCAACATACCGCTGCTGGAAGCTCTGCGAAAGGCGCAGAGAATGAGGACAGATGAAA
TGGCGGCACCTCACCAAGACCTTTTTTTTCACGACCTTGTTCCCCGGCCTCGTGCCGAAT
TCGCGGCCGCCCTATAGTGAGTCGTATTACAAAATTCTGACGGTTCACTAAACGAGCTCT
GCTTATATAGACCTCCCACCGTACACGCCTACCGCCCATTTGCGTCAACGGGGCCGGGGT
TATTTACAACATTTTTGGAAAGCCCCCGCTGATTTTCGGTGCCCAAACCAACACCTCCCA
TTTGACGTCCAATGGCGGCTGGCAAAACTTTGGAAAATTCCCCCGTCGAGACAAAACCCG
TTTATCCAACGCCCCACTTGGTGTCCCTGCCAACACCGTCATCACCCATCGTAATAACCG
ATAGACTAAAAACCTCAAATGCACCCGCCCACACTCGAAACCTCCCCGAAAGGTCATTGA
CCCGCGCCCTAATGCCACGGCGGGCCCATTAACCCGCCTTTGAACGTCCATAGGGGGCCC
GCCCTCTGCCCTTACGACCCCCTTGTAGTACATCGCCACCGGGGGAATCTTCCCCGAAAA
ACCCTCCCCCCTGCACCCCG

Restriction Sites: NotI-NotI

ACCN: NM_001867

Insert Size: 480 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:
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_001867.2, NP_001858.1

RefSeq Size: 448 bp

RefSeq ORF: 192 bp

Locus ID: 1350

UniProt ID: P15954

Cytogenetics: 5q14.3

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 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 subunit VIIc, which shares 87% and 85% amino acid sequence identity with mouse and bovine COX VIIc, respectively, and is found in all tissues. A pseudogene COX7CP1 has been found on chromosome 13. [provided by RefSeq, Jul 2008]