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Product datasheet for SC118991

COX7B (NM_001866) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	COX7B (NM_001866) Human Untagged Clone
Tag:	Tag Free
Symbol:	COX7B
Synonyms:	APLCC; LSDMCA2
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118991 sequence for NM_001866 edited (data generated by NextGen Sequencing) ATGTTTCCCTTGGTCAAAAGCGCACTAAATCGTCTCCAAGTTCGAAGCATTCAGCAAACA ATGGCAAGGCAGAGCCACCAGAAACGTACACCTGATTTTCATGACAAATACGGTAATGCT GTATTAGCTAGTGGAGCCACTTTCTGTATTGTTACATGGACATATGTAGCAACACAAGTC GGAATAGAATGGAACCTGTCCCCTGTTGGCAGAGTTACCCCAAAGGAATGGAGGAATCAG TAA Clone variation with respect to NM_001866.2
5' Read Nucleotide Sequence:	>OriGene 5' read for NM_001866 unedited GTCGGATTTGTATACGACTTCTATAGGCGGCCGCGNAATTCGCACGAGGCTGAAGCGAAT TGGCACCAAAGCAGCAGCTGTATTGCCGCAGTTCTAGCTTCACCTTCACGATGTTTCCCT TGGTCAAAAGCGCACTAAATCGTCTCCAAGTTCGAAGCATTCAGCAAACAATGGCAAGGC AGAGCCACCAGAAACGTACACCTGATTTTCATGACAAATACGGTAATGCTGTATTAGCTA GTGGAGCCACTTTCTGTATTGTTACATGGACATATGTAGCAACACAAGTCGGAATAGAAT GGAACCTGTCCCCTGTTGGCAGAGTTACCCCAAAGGAATGGAGGAATCAGTAATCATCCC AGCTGGTGTAATAATGAATTGTTTAAAAAACAGCTCATAATTGATGCCAAATTAAAGCAC TGTGTACCCATTAAGATATGGCATTATTGAAGAAATAAAGTACATTTGAAACCTTCAAAA AAAAAAAAAAAAAAAAAAAACTCGACTCTAGATTGCGGCCGCGGTCATAGCTGTTTCCTGA ACAGATCCCGGGTGGCATCCCTGTGACCCCTCCCCAGTGCCTCTCCTGGCCCTGGAAGTT GCCACTCCAGTGCCCACCAGCCTTGTCCTAATAAAATTAAGTTGCATCATTTTGTCTGAC TAGGTGTCCTTCTATAATATTATGGGGTGGAGGGGGTTGGTATGGNANCCAGGGGCCAAG TTTGGAAAGACAACCTGTAGGGCCTGCCGGGGTCTATTGGGAACCAAGCTGGAGTGCAGT GGCACAATCTTGGCTCACTGCAATCTCCGCCTCCTGGGTTCAAGCGATTCTCCTGCCTCA GCCTCCCGAGNTGTTTGGGATTCCCAGCATGCATGACCAGGCTCACTAATTTTTGGTCTT TTGGTAAGAACCGGGGTTCACCATAT

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3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001866 unedited
GGCACGCATTTCTANAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTGAAGGGTTCAAATGT
ACTTTATTTCTTCAATAATGCCATATCTTAATGGGTACACAGTGCTTTAATTTGGCATCA
ATTATGAGCTGTTTTTTAAACAATTCATTATTACACCAGCTGGGATGATTACTGATTCCT
CCATTCCTTTGGGGTAACTCTGCCAACAGGGGACAGGTTCCATTCTATTCCGACTTGTGT
TGCTACATATGTCCATGTAACAATACAGAAAGTGGCTCCACTAGCTAATACAGCATTACC
GTATTTGTCATGAAAATCAGGTGTACGTTTCTGGTGGCTCTGCCTTGCCATTGTTTGCTG
AATGCTTCGAACTTGGAGACGATTTATTGCGCTTTTGACCAAGGGAAACATCGTGAAGGT
GAAGCTAGAACTGCGGCAATACAGCTGCTGCTTTGGTGCCAATTCGCTTCAGCCTCGTGC
CGAATTCGCGGCCGCCCTATAGTGAGTCGTATTACAAAATTCTGACGGTTCACTAAACGA
GCTCTGCTTATATAGACCTCCCACCGTACACGCCTACCGCCCATTTGCGTCAACGGNGCG
GAGTTATTACGACATTTTGGAAAGTCCCGTTGATTTTGGTGCCAAAACAAACTCCCATTG
ACGTCAATGGGGGTGGAGACTCGGAAATCCCCGTGAGTCATACCGCTATCCACGCCCATT
GGNTGTACTGCCAAAACCGCATCACCATGGTAATAGCGATGACTAATACCTANATGTACT
GCCCAGTAGAAAGTCCCGTAAGGCATGTACTTGGCATATGCCCAGCGGCCATTTACGTCT
TGACGNAATAGGGGGCGACCTGGCTATAACACTGAGTCTGCCAGGGGCAGTAACCTAAAA
CTCACCATGACGCATGAAAGCCCTATGCGTACTGGGACAACTCTTTTGCCCAGGGCGGGT
CGTTGCGCCACCAC

Restriction Sites: NotI-NotI

ACCN: NM_001866

Insert Size: 500 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_001866.2, NP_001857.1

RefSeq Size: 456 bp

RefSeq ORF: 243 bp

Locus ID: 1349

UniProt ID: P24311

Cytogenetics: Xq21.1

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 VIIb, which is highly similar to bovine COX VIIb protein and is found in all tissues. This gene may have several pseudogenes on chromosomes 1, 2, 20 and 22. [provided by RefSeq, Jun 2011]