

Product datasheet for SC126992

COX8A (NM_004074) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | COX8A (NM_004074) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | COX8A |
| Synonyms: | COX; COX8; COX8-2; COX8L; MC4DN15; VIII; VIII-L |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >OriGene ORF within SC126992 sequence for NM_004074 edited (data generated by NextGen Sequencing) ATGTCCGTCCTGACGCCGCTGCTGCTGCGGGGCTTGACAGGCTCGGCCCGCGGCTCCCA GTGCCGCGCGCCAAGATCCATTCGTTGCCGCGGAGGGGAAGCTTGGGATCATGGAATTG GCCGTTGGGCTTACCTCCTGCTTCGTGACCTTCCTCCTGCCAGCGGGCTGGATCCTGTCA CACCTGGAGACCTACAGGAGGCCAGAGTGA |

Clone variation with respect to NM_004074.2

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| 5' Read Nucleotide Sequence: | >OriGene 5' read for NM_004074 unedited TTTGTAATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGCCTTGGGCTACGGC TGACCGTTTTTTGTGGTGTACTCCGTGCCATCATGTCCGTCTGACGCCGCTGCTGCTGC GGGGCTTGACAGGCTCGGCCCGCGGCTCCAGTGCCGCGCGCCAAGATCCATTCGTTGC CGCCGGAGGGGAAGCTTGGGATCATGGAATTGGCCGTTGGGCTTACCTCCTGCTTCGTGA CCTTCCTCCTGCCAGCGGGCTGGATCCTGTACACCTGGAGACCTACAGGAGGCCAGAGT GAAGGGGTCGGTCTGTCCCTCACACTGTGACCTGACCAGCCCCACCGGCCATCCTGGT CATGTTACTGCATTTGTGGCCGGCCTCCCCTGGATCATGTCAATTCCAGTCACCTC TTCTGCAATCATGACCTTTGATGTCTCCATGGTGACCTCCTTGGGGTCACTGACCCTG CTTGGTGGGGTCCCCCTTGTAAACAATAAAATCTATTTAACTTTAAAAAAAAAAAAAAAA AAAAAACTCGACTCTAGATTGCGGCCGGTGCATAGCTGTTTCCTGAACGATCCCGGGT GGCATCCCTGTGACCCCTCCCCAGTGCCTCCTGGCCCTGGAGTTGCCACTCCAGTGC CCACCAGCCTTGTCTAATAAAATTAAGTTGCATATTTGTCTGACTAGGTGTCCTTCT ATAATATTATGGGGTGGAGGGGGTGGTATTGGACCCAGGGGCCAAAGTGGGAAAGACA ACCTGTAGGGCCTGCGGTGTTCTATTGGGAACCAAGCTGAAGGGCAGGGGCACAATCTTG GTTACTGGAATCCCGCCTTCTGGTTAAAGCGATCTCCTGCCTCACCTCCCAGTGTGGG T |
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| 3' Read Nucleotide Sequence: | <p>>OriGene 3' read for NM_004074 unedited GTAACGCGGCCGCTCTCTAGTATCGAGTTTTTTTTCTTTTTTTTTTTTTAAAGTTTAA TAGATTTTATTGTTACAAGGGGGACCCACCAAGCAGGGTCAGTGACCCCAAGGAGGTC ACCATGGAGACATCAAGAGGTCATGATTGCAGAAGAGGTGACTGGAATTGAATGACATGA TCCAGGGGAGGCCGCCACAAATGCAGTAACATGACCAGGATGGGCCGGTGGGGCTGGTC AGGTCACAGTGTGAGGGACAGAACGGACCCCTTCACTCTGGCCTTCTGTAGGTCTCCAGG TGTGACAGGATCCAGCCCGCTGGCAGGAGGAAGGTCACGAAGCAGGAGGTAAGCCCAACG GCCAATTTTCATGATCCCAAGCTTACCCTCCGGCGTAACGAATGGATCTTGGCGCGCGGT ACTGGGAGCCGTCGGTCCGAGCCTGTTAAGCCCGTATCATTAGCGCGCTTAGGACGGAC ATGATGGCACGGAGTACACCACAAAAACGGTTAGTCCGTACCCCAAGGCCTCGTGCCGA ATTCGCGGCCGTCCTATAGTGAGCCCTATTACAAAATTCTGACGGTTCACTAAACGAGCT CTGCTTATATAGACCTACAACCGTACACGCCTACCGCACATTTTGCATAACGGGGCCGA GGTATTACCACATTTTAAAAAGCCTCGTTGTTTTTGGTGCCAAAACAACTTCCATTG ACGTCTATGGGGCGGAACTTGGAAATCTCCGTGAGTTAAACCGCTATACACGCCATT GGTGACTGGTCATATCCGCTTACTTTGGGAATAGCGAGGACTATTACCTATATGTCCTG CCAATTAGAAAGCCCGTAAGGCCTGTCCTGGTTTATGCCAGGGGGCCATTACCGCCTTG ACATATAAGGGGCGACTCTGCTTATATTCACTTGAGTCTGCCAATGGACATTTCCCTATA TCTCACCTCTGCGCTAGGAAGTCCCATGGGGTCTTGGCACTCACTACTT</p> |
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_004074 |
| Insert Size: | 510 bp |
| OTI Disclaimer: | <p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info</p> |
| 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_004074.2 , NP_004065.1 |

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| RefSeq Size: | 521 bp |
| RefSeq ORF: | 210 bp |
| Locus ID: | 1351 |
| UniProt ID: | P10176 |
| Cytogenetics: | 11q13.1 |
| Domains: | COX8 |
| Protein Families: | Transmembrane |
| Protein Pathways: | Alzheimer's disease, Cardiac muscle contraction, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease |
| Gene Summary: | <p>The protein encoded by this gene is the terminal enzyme of the respiratory chain, coupling the transfer of electrons from cytochrome c to molecular oxygen, with the concomitant production of a proton electrochemical gradient across the inner mitochondrial membrane. In addition to 3 mitochondrially encoded subunits, which perform the catalytic function, the eukaryotic enzyme contains nuclear-encoded smaller subunits, ranging in number from 4 in some organisms to 10 in mammals. It has been proposed that nuclear-encoded subunits may be involved in the modulation of the catalytic function. This gene encodes one of the nuclear-encoded subunits. [provided by RefSeq, Jul 2008]</p> |