

Product datasheet for SC118617

NDUFA4 (NM_002489) Human Untagged Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | NDUFA4 (NM_002489) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | NDUFA4 |
| Synonyms: | CI-9k; CI-MLRQ; COXFA4; MC4DN21; MISTR1; MLRQ; MRCAF1 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >OriGene ORF within SC118617 sequence for NM_002489 edited (data generated by NextGen Sequencing) |

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ATGCTCCGCCAGATCATCGGTCAGGCCAAGAAGCATCCGAGCTTGATCCCCCTCTTTGTA
TTTATTGGAAGTGGAGCTACTGGAGCAACTGTATCTCTTGGCTGGCATTGTTCAAT
CCAGATGTTTGTGGGACAGAAATAACCCAGAGCCCTGGAACAACTGGGTCCCAATGAT
CAATACAAGTTCTACTCAGTGAATGTGGATTACAGCAAGCTGAAGAAGGAACGTCCAGAT
TTCTAA
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Clone variation with respect to NM_002489.3

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_002489 unedited
CACGAGGTGACTTTGGAAGTCCGTAGTGTCTCATTGCAGATAATTTTAGCTTAGGGCCT
GGTGGCTAGGTCGGTTCTCCTTTCCAGTTGGAGACCTGCGCCAAACATGCTCCGCC
AGATCATCGGTCAGGCCAAGAAGCATCCGAGCTTGATCCCCCTCTTTGTATTTATTGAA
CTGGAGCTACTGGAGCAACTGTATCTCTTGGCTGGCATTGTTCAATCCAGATGTTT
GTTGGGACAGAAATAACCCAGAGCCCTGGAACAACTGGGTCCCAATGATCAATACAAGT
TCTACTCAGTGAATGTGGATTACAGCAAGCTGAAGAAGGAACGTCCAGATTTCTAAATGA
AATGTTTCACTATAACGCTGCTTTAGAATGAAGGTCTTCCAGAAGCCACATCCGCACAAT
TTTCCACTTAACCAGGAAATATTTCTCCTCTAAATGCATGAAATCATGTTGGAGATCTCT
ATTGTAATCTCTATTGGAGATTACAATGATTAATCAATAAATAACTGAACTTGAAAAA
AAAAAAAAAAAACTCGACTCTAGATTGCGGCCGCGGTATAGCTGTTTCTGACAGAT
CCCGGGTGGCATCCCTGTGACCCCTCCCCAGTGCCTCTCCTGGCCCTGGAAGTTGCCACT
CCAGTGCCACCAGCCTTGTCCCTAATAAATTAAGTTGCATCATTTTGTCTGACTAGGTGT
CCTT
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| 3' Read Nucleotide Sequence: | >OriGene 3' read for NM_002489 unedited ATCCTGCACCGCGCCGATTTTANGATCGGTTTTTTTTTTTTTTTTTTTCAAGTTTCAGTT ATTTATTGATTTAATCATTGTAATCTCCAATAGAGATTACAATAGAGATCTCCAACATGA TTTTCATGCATTTACAGGAGAAATATCCCTGGTTAAGTGGAAAATTGTGCGGATGTGGCT TCTGGAAGACCTTCATTCTAAAGCAGCGTTATAGTAAACATTTTCATTTACAAATCTGGA CGTTCCTTCTTCAGCTTGCTGTAATCCACATTCAGTAAACTTGTATTGATCATTG GGACCCAGTTTGTCCAGGGCTCTGGGTTATTTCTGTCCCAACAACATCTGGATTGAAC AATGCCAGACGCAAGAGATACAGTGTGCTCCAGTACCTCCAGTTCCAATAAATCCAAG AGGGGGCTCAAGCTCGGATGCTTCTTGGCCTGACCGCAGATCTGGCGGAGCATGCTTGCG GCACAGGTCTCCAAGTGGAAAGGAGAGAACCGACCTACCCCGAGGCCCTAAGCTAAAAAT TATCTGCAATGAGACACTACGGACTTCCAAAGTACCTCGTGCCGAATCCCGGCCGCC TATAGGGAGTCCGATTCAAAATCTGACGGTTCCCTAACGAGCTCCTGTTATATAGAC CTCCCACCGGACACGCCTACCGCCATTGCGCAACCGGGCCGGGTTATCACCACATTT TTGAAAGTCCCCTGAATTTGGTGCCCAACAACCTCCCTTGGACCCATGGGGCGGACC CTGGCAAACCCCGCAGTAAACCCTTTCCCCCCCATTGGGTCCCGCAAACCCACTCCC AGGGCAAACCCAGTCTACACCGCAAACGCCCTGCCACCGGAAAACCCCAAGGTCTCT CCTCTGCCCCAATCCAAGCGGGCCCCCN |
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_002489 |
| Insert Size: | 630 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_002489.2</u> , <u>NP_002480.1</u> |
| RefSeq Size: | 823 bp |
| RefSeq ORF: | 246 bp |
| Locus ID: | 4697 |
| UniProt ID: | <u>O00483</u> |
| Cytogenetics: | 7p21.3 |
| Protein Families: | Transmembrane |

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| Protein Pathways: | Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease |
| Gene Summary: | The protein encoded by this gene belongs to the complex I 9kDa subunit family. Mammalian complex I of mitochondrial respiratory chain is composed of 45 different subunits. This protein has NADH dehydrogenase activity and oxidoreductase activity. It transfers electrons from NADH to the respiratory chain. The immediate electron acceptor for the enzyme is believed to be ubiquinone. [provided by RefSeq, Jul 2008] |