

Product datasheet for SC118622

NDUFS4 (NM_002495) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | NDUFS4 (NM_002495) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | NDUFS4 |
| Synonyms: | AQDQ; CI-18; CI-18 kDa; CI-AQDQ; MC1DN1 |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Cell Selection: | None |
| Fully Sequenced ORF: | >OriGene ORF within SC118622 sequence for NM_002495 edited (data generated by NextGen Sequencing) ATGGCGGCGGTCTCAATGTCAGTGGTACTGAGGCAGACGTTGTGGCGGAGAAGGGCAGTG GCTGTAGCTGCCCTTTCCGTTTCCAGGGTTCGACCAGGTCGTTGAGGACTTCCACATGG AGATTGGCACAGGACCAGACTCAAGACACACAACACTATAACAGTTGATGAANNNTGGAT ATCACTACTTTAACTGGCGTTCAGAGAGCATATAAACTAGAAAAGTCAGGATCTTT GTTCTGCTCGCAATAACATGCAGTCTGGAGTAAACAACAAAAGAAATGGAAGATGGAG TTTGATACCAGGGAGCGATGGGAAAATCCTTTGATGGGTTGGGCATCAACGGCTGATCCC TTATCCAACATGGTTCTAACCTTCAGTACTAAAGAAGATGCAGTTTCCTTTCAGAAAAA AATGGATGGAGCTATGACATTGAAGAGAGGAAGGTTCCAAAACCAAGTCCAAGTCTTAT GGTGCAAACCTTTCTTGGAAACAAAAGAACAAGAGTATCCACAAAATAG |
| | Clone variation with respect to NM_002495.2 12 g=>c;172 a=>n;173 a=>n;174 a=>n;175 t=>n;198 a=>c;312 a=>g |



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| 5' Read Nucleotide Sequence: | >OriGene 5' read for NM_002495 unedited TCAAATTTTGTATACGACNACTATAGGGCGGCCGGAATTCGCACGAGGAGCAAGATGGC GGCGGTCTCAATGTCAGTGGTACTGAGGCAGACGTTGTGGCGGAGAAGGGCAGTGGCTGT AGCTGCCCTTTCCGTTTCCAGGGTTCGACCAGGTCGTTGAGGACTTCCACATGGAGATT GGCACAGGACCAGACTCAAGACACAACTCATAACAGTTGATGAAAAATGGTTTATCT TGTACCACTGTGTTTTACATTCTGTGGTCTAGCCACACCAAGCCTGGAACCTGCTACTCT TTTTCTGCTTCAAGGCATTTGGAGTTCCTGTTCACTCTACCTGGATGCATTTTAACTAA TCCTGAGGACTTCATCCGGTCACCATCTACCTATTCTTCAAATGGATATCACTACTTTAA CTGGCGTTCCAGAAGAGCATATAAAAACTAGAAAAGTCAGGATCTTTGTTCTGCTCGCA ATAACATGCAGTCTGGAGTAAACAACACAAAGAAATGGAAGATGGAGTTTGATACCAGGG AGCGATGGGAAAATCCTTTGATGGGTTGGGCATCAACGGCTGATCCCTTATCCAACATGG TTCTAACCTTCAGTACTAAGAAGATGCAGTTTCCTTGCAGAAAAAAATGGATGGAGCT ATGACATTGAAGAGAGGAAGGTTCCAAAACCAAGTCCAAGTCTTATGGTGCAAACCTTTT CTTGGAACAAAAGAACCAGAGTATCCACAAAATAGGTTGGCACTGACTATATCTCTGCTT GACTGTGAAATAAGTCAGCTATGCAGTATTTATAGTCCATGTATAATAAATACATCTCTT AATCTCCTAATANNATGGNACCTTTNAACTACANNAAAAAAAAAAAAAAAAAACTCGACTCTA GATTGGGGNCCGCGTCATAGA |
| 3' Read Nucleotide Sequence: | >OriGene 3' read for NM_002495 unedited CGACGCTTCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGTAGTTTAAAGGTCCAATTTATT AGGAGATTAAGAGATGTATTTATATACATGGACTATAAACTGCATAGCTGACTTTAT TCACAGTCAAGCAGAGATATAGTCAGTGCCAACCTATTTTGTGGATACTTTGTTCTTTT GTTCCAAGAAAAGTTGCACCATAAGACTTGGACTTGGGTTTTGGAACTTCTCTCTTC AATGTCATAGCTCCATCCATTTTTTTCTGCAAAGGAACTGCATCTTCTTAGTACTGAA GGTTAGAACCATGTTGGATAAGGGATCAGCCGTTGATGCCCAACCCATCAAAGGATTTTC CCATCGCTCCCTGGTATCAAACCTCCATCTTACATTTCTTTGTGTTGCTTACTCCAGACTG CATGTTATTGCGAGCAGGAACAAAGATCCTGACTTTTCTAGTTTTTATATGCTCTTCTGG AACGCCAGCTAAAGTAGTGATATGCATTTGAAGAATAGGCACATGGCGACCCGGATGAAGT CCTCAGGATTAGTAAAAATGCATCCAGGTACAGTGAACAGGAACTCCAAATGCCTTGAAG CACGAAAAGAGTACCAAGTCCCAGGCTTGGTGTGGCTAGACCACAGAATGTAAAAACAG TGGTACAAGATAAACCAATTTTTTTCATCAACCTGTCTGAATTGCGTGTGTTTGTAGTCTGGTC CTGGGCCATCTTCATGGGGAAATTTCTACCACCTGTCCGGAACCCGGAACGAAAGGCAG TACAGCCCTGCCCTTTTCGCCAAAGTTGCCCTATCCCGGACTTGAACCCCGCCTTTTG CTCTGTGCCGAATCCGGCCGCTTATGAGTCCATACAAATTGACGTATTTAAAGCTTGTT TTTAAACCTCCACGAACCTACGTATTGTGTAGGGGGGGTTACACATTGAAAAAG |
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_002495 |
| Insert Size: | 820 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). |
| RefSeq: | NM_002495.1 , NP_002486.1 |
| RefSeq Size: | 668 bp |
| RefSeq ORF: | 528 bp |
| Locus ID: | 4724 |

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| UniProt ID: | <u>O43181</u> , <u>A0A0S2Z433</u> |
| Domains: | ETC_CI_21 |
| Protein Families: | Druggable Genome |
| Protein Pathways: | Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease |
| Gene Summary: | <p>This gene encodes an nuclear-encoded accessory subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (complex I, or NADH:ubiquinone oxidoreductase). Complex I removes electrons from NADH and passes them to the electron acceptor ubiquinone. Mutations in this gene can cause mitochondrial complex I deficiencies such as Leigh syndrome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2015]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1).</p> |