

Product datasheet for SC113317

NDUFB11 (NM_019056) Human Untagged Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | NDUFB11 (NM_019056) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | NDUFB11 |
| Synonyms: | CI-ESSS; ESSS; MC1DN30; Np15; NP17.3; P17.3 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >OriGene ORF within SC113317 sequence for NM_019056 edited (data generated by NextGen Sequencing) |

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ATGGCGGCTGGGCTGTTTGGTTTGGAGCGCTCGCCGCTTTTGGCGGCAGCGGCGACGCGA
GGGCTCCCGGCCCGCCGCTCCGCTGGGAATCTAGCTTCTCCAGGACTGTGGTCGCCCCG
TCCGCTGTGGCGGAAAGCGGCCCCAGAACCCAGCACACCGTGGCAAGAGGACCCAGAA
CCCGAGGACGAAAACCTGTATGAGAAGAACCAGACTCCCATGGTTATGACAAGGACCC
GTTTTGGACGTCTGGAACATGCGACTTGTCTTCTTTGGCGTCTCCATCATCTGGTC
CTTGGCAGCACCTTTGTGGCCTATCTGCCTGACTACAGGTGCACAGGGTGTCCAAGAGCG
TGGGATGGGATGAAAGAGTGGTCCCGCCGGAAGCTGAGAGGCTTGTGAAATACCGAGAG
GCCAATGGCCTTCCCATCATGGAATCCAACCTGCTTCGACCCAGCAAGATCCAGCTGCCA
GAGGATGAGTGA
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Clone variation with respect to NM_019056.5

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_019056 unedited
GCACGAGGGTCATGGCGGCTGGGCTGTTTGGTTTGGAGCGCTCGCCGCTTTTGGCGGCAG
CGGCGACGCGAGGGCTCCCGGCCCGCCGCTCCGCTGGGAATCTAGCTTCTCCAGGACTG
TGGTCGCCCGCTCCGCTGTGGCGGAAAGCGGCCCCAGAACCCAGCACACCGTGGCAAG
AGGACCCAGAACCCGAGGACGAAAACCTGTATGAGAAGAACCAGACTCCCATGGTTATG
ACAAGGACCCCGTTTTGGACGTCTGGAACATGCGACTTGTCTTCTTTGGCGTCTCCA
TCATCCTGGTCCTTGGCAGCACCTTTGTGGCCTATCTGCCTGACTACAGGTGCACAGGGT
GTCCAAGAGCGTGGGATGGGATGAAAGAGTGGTCCCGCCGGAAGCTGAGAGGCTTGTGA
AATACCGAGAGGCCAATGGCCTTCCCATCATGGAATCCAACCTGCTTCGACCCAGCAAGA
TCCAGTGCAGAGGATGAGTGACCAGTTGCTAAGTGGGGCTCAAGAAGCACCGCCTTCC
CCACCCCTGCCTGCCATTCTGACCTTCTCAGAGCACCTAATTAAGGGGGCTGAAAG
TCTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACTCGAC
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| | |
|-------------------------------------|---|
| 3' Read Nucleotide Sequence: | >OriGene 3' read for NM_019056 unedited GCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTACAACTTT CAGCCCCTTAATTAGGTGCTCTGAAAAAGTCAAATGGCAGGCAGGGGTGGGGAAGG CGGTGCTTCTTGAGCCCCACTTAGCAACTGGTCACTCATCCTCTGGCAGCTGGATCTTGC TGGGGTCGAAGCAGTTGGATTCCATGATGGGAAGGCCATTGGCCTCTCGGTATTTACAA GCCTCTCAGCTTCGCGGGGGACCCTTTTCATCCCATCCCACGCTCTTGGACACCCTG TGCACCTGTAGTCAGGCAAATAGGCCACAAAGGTGCTGCCAAGGACCAGGATGATGAAA CCCCAAAGAAGAAGACAAGTCGCATGTTCCAAAGTCCAAAACGGGGCCCTTGTCATAAC CATGGGAGTCTGGGTTCTTCTCATAACAAGTTTTCGTCCTCGGGTTCTGGGTCCTTGGC ACGGTGTGGTCGGTTCTGGGGGCGCTTTCCCGCCAGCGGACGGGGCGACCACAGTCTCT GGAGAACCTAAAAATCCACCGGACCCGGCCGGCCGGGAACCTCCCGTCGCCGCTGCCGC CAAAAAACGGAGAGCGCTCAAACCAACAGCCACCCGCATGACCCTTGGCCCAAATTCGG GCCCGCTATATGGAGCCGACTCAAATTTTCCGGCTCACTAAACAACCTCCGTTAAT AGACCCCCCGGACCCGCTCCCCCACTTGGCGACCCGGGGCGGGGATATCCCAACCT TGGGAAACGCCCTCCATTTTTGTGCGCAAACAACCCCTTGACCCCAAGGGGGCGGAC ACTGGAACCCGCCGAATAAAACCTCTTCCCCACTTTGGGCGCTGGCCACACGCCACT ACCGGGATAACCAATACCCACCCTATCACATCCCGCACAAAAGACCAACCCCAAGGCCAC CTCTGCGCA |
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_019056 |
| Insert Size: | 700 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: | NM_019056.2 , NP_061929.2 |
| RefSeq Size: | 953 bp |
| RefSeq ORF: | 492 bp |
| Locus ID: | 54539 |
| UniProt ID: | Q9NX14 |
| Cytogenetics: | Xp11.3 |
| Protein Families: | Transmembrane |

Gene Summary:

The protein encoded by this gene is a subunit of the multisubunit NADH:ubiquinone oxidoreductase (complex I). Mammalian complex I is located at the mitochondrial inner membrane. This protein has NADH dehydrogenase activity and oxidoreductase activity. It transfers electrons from NADH to ubiquinone. Mutations in the human gene are associated with linear skin defects with multiple congenital anomalies 3 and mitochondrial complex I deficiency. [provided by RefSeq, Dec 2016]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).