

## Product datasheet for **SC118623**

### NDUFS8 (NM\_002496) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NDUFS8 (NM_002496) Human Untagged Clone
Tag:	Tag Free
Symbol:	NDUFS8
Synonyms:	CI-23k; CI23KD; MC1DN2; TYKY
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118623 sequence for NM_002496 edited (data generated by NextGen Sequencing)

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ATGCGCTGCCTGACCACGCCTATGCTGCTGCGGGCCCTGGCCAGGCTGCACGTGCAGGA  
CCTCCTGGTGGCCGAGCCTCCACAGCAGTGCACTGGCAGCCACCTACAAGTATGTGAAC  
ATGCAGGATCCCAGATGGACATGAAGTCACTGACTGACCGGGCAGCCCGCACCCCTGCTG  
TGGACTGAGCTCTCCGAGGCCTGGGCATGACCCTGAGCTACCTGTTCCGGGAACCGGCC  
ACCATCAACTACCCGTTTCGAGAAGGGCCCGCTGAGCCCTCGCTTCCGTGGGGAGCATGCG  
CTGCGCCGGTACCCATCCGGGGAGGAGCGTTGCATTGCCTGCAAGCTCTGCGAGGCCATC  
TGCCCCGCCAGGCCATCACCATCGAGGCTGAGCCAAGAGCTGATGGCAGCCGCCGGACC  
ACCCGCTATGACATCGACATGACCAAGTGCATCTACTGCGGCTTCTGCCAGGAGGCTGT  
CCCGTGGATGCCATCGTCGAGGGCCCCAACTTTGAGTTTCCACGGAGACCCATGAGGAG  
CTGCTGTACAACAAGGAGAAGTTGCTCAACAACGGGGACAAGTGGGAGGCCGAGATCGCC  
GCCAACATCCAGGCTGACTACTTGTATCGGTGA
```

Clone variation with respect to NM\_002496.3



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_002496 unedited</p> <pre> AGGTCGAATTTTGTATACGACTCCTATAGGGCGGCCGGAATCGGCACGAGGAGCCTCCG CCTCCCGATTGACTGGCCTGCTTGGCAAGGCAAGTAGCGGCGCGCTTCAAGATGCGCTG CCTGACCACGCCTATGCTGCTGCGGGCCCTGGCCAGGCTGCACGTGCAGGACCTCCTGG TGGCCGGAGCCTCCACAGCAGTGCAGTGGCAGCCACCTACAAGTATGTGAACATGCAGGA TCCCGAGATGGACATGAAGTCAGTACTGACCGGGCAGCCCGACCCTGCTGTGGACTGA GCTCTTCCGAGGCTGGGCATGACCCTGAGCTACCTGTTCCGGGAACCGGCCACCATCAA CTACCCGTTTCGAGAAGGGCCCGCTGAGCCCTCGCTTCCGTGGGGAGCATGCGCTGCGCCG GTACCCATCCGGGGAGGAGCGTTGCATTGCCTGCAAGCTCTGCGAGGCCATCTGCCCCGC CCAGGCCATCACCATCGAGGCTGAGCCAAGAGCTGATGGCAGCCGCCGACCACCCGCTA TGACATCGACATGACCAAGTGCATCTACTGCGGCTTCTGCCAGGAGGCCTGTCCCGTGA TGCCATCGTCGAGGGCCCAACTTTGAGTTCTCCACGGAGACCCATGAGGAGCTGCTGTA CAACAAGGAGAAGTTGCTCAACAACGGNGACAAGTGGGAGGCCGAGATCGCCGCCAACAT CCAGGCTGACTACTTGTATCGGTGACGCCCCACCGNNCCCGAGCCCTGCTGCCAATA AAACCACTCCGACCCCCANAAANANANANANNNNNNAACAAACAAAAAACAANNNNAC AAAAAANAAAAAACAANAAAAAACAACCCCTTTAAATGCGGCCGGG </pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_002496 unedited</p> <pre> GCCCGCGCCGCCGCCCGGCCNCCGCCCCCGTTTTTCGGCGTGGTTTTTTGGGCA GCAGGGCTGCGGGCCGGTGGGGCGTACCCTACAAGTAGTCAGCCTGGCTGTTGGCGGC GATCTCGGCTCCACTTGTCCCGTTGTTGAGCAACTTCTCCTTGTGTACAGCAGCTC TCATGGGTCTCGTGGAGAATAAATTGGGGCCCTCGACGATGGCATCCACGGGACAGG CCTCCTGGCAGAAGCCGAGTAGATGCACTTGGTCATGTCGATGTCATAGCGGGTGGTCC GGCGGCTGCCATCAGCTCTTGGCTCAGCCTCGATGGTGTGGCCTGCGCGGGCAGATGG CCTCGCAGAGCTTGCAGGCAATGCAACGCTCCTCCCCGGATGGGTACCGGCGCAGCGCAT GCTCCCCACGGAAGCGAGGGCTCATCGGGCCCTTCTGAAACGGGTATTTGATGGTGGCCG GTTCCCGGAACAGGTAGCTCAGGGTCAAGCCACGCTCTGAAGAGCTCAGTCCACAGCA GGGTGCGGGCTGCCCGGTGAGTCACTGACTGCTGCGGAGGCTTCTGCCACCCATGAGGT ACATACTTGTACGTGGCTGTCACTGACTGCTGCGGAGGCTTCTGCCACCCATGAGGT TCCTGCACGTGCACCCTGGTCCCCTGCCCCACCCTCTACGTCTTGTATATGCCTCGC ATCTTGCAAACGCATCCCCTCCTCGCCTGCCTACCTCGGCCATTCTATCTGTATTGCCG ATGCTTCCTTTTTGCCAAATCCTCTGTCGCCGTTTCTGACTTGGTTTACAAAATTTTT TACTGGTTATACTAATTTATCTTCTATCTTTATTACACCTAACTACCTTATAAGTAGAAC CCTCCATCTTCCCT </pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_002496
<b>Insert Size:</b>	850 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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\\_002496.1](#), [NP\\_002487.1](#)

**RefSeq Size:** 779 bp

**RefSeq ORF:** 633 bp

**Locus ID:** 4728

**UniProt ID:** [O00217](#)

**Cytogenetics:** 11q13.2

**Domains:** fer4

**Protein Pathways:** Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease

**Gene Summary:** This gene encodes a subunit of mitochondrial NADH:ubiquinone oxidoreductase, or Complex I, a multimeric enzyme of the respiratory chain responsible for NADH oxidation, ubiquinone reduction, and the ejection of protons from mitochondria. The encoded protein is involved in the binding of two of the six to eight iron-sulfur clusters of Complex I and, as such, is required in the electron transfer process. Mutations in this gene have been associated with Leigh syndrome. [provided by RefSeq, Mar 2010]