

## Product datasheet for SC118621

### NDUFB6 (NM\_002493) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** NDUFB6 (NM\_002493) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** NDUFB6  
**Synonyms:** B17; CI  
**Mammalian Cell Selection:** None  
**Vector:** pCMV6-XL5  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_002493 edited  
 ATGACGGGTACTCCGGATGAGAACTGCGGCTGCAGCAGCTGCGAGAGCTGAGAAGG  
 CGATGGCTGAAGGACCAGGAGCTGAGCCCTCGGGAGCCGGTGTGCCCCACAGAAGATG  
 GGGCCTATGGAGAAATCTGGAATAAATTTTGGAGAATAAATCCCTTGAGGAAAAATG  
 GTCCATGGGGTATACAAAAGAGTATCTTTGTTTTCACTCATGTACTTGTACCTGTCTGG  
 ATTATTATTATTACATGAAGTATCATGTTTCTGAAAAACCATATGGCATAGTTGAAAAG  
 AAGTCCAGAATATCCCTGGTGATACAATCTGGAGACTGGAGAAGTAATCCACCAATG  
 AAAGAATTCCTGATCAACATCATTA

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_002493 unedited  
 GAGTCGGATTTGTAACCGACTTTACTATAGGGCGGCACGCAATTCGGCACGAGGCTTT  
 GCAGAGCGGGAGCGCGCTTAAGTAACTAGTCCGTAGTTCGAGGGTGCGCCGTGCTTTTT  
 GCGTTGGTACCAGCGGCACATGACGGGTACTCCGGATGAGAACTGCGGCTGCAGC  
 AGCTGCGAGAGCTGAGAAGGCGATGGCTGAAGGACCAGGAGCTGAGCCCTCGGGAGCCGG  
 TGCTGCCCCACAGAAGATGGGGCTATGGAGAAATCTGGAATAAATTTTGGAGAATA  
 AATCCCTTGAGGAAAAATGGTCCATGGGGTATACAAAAGAGTATCTTTGTTTTCACTC  
 ATGTAATTGTACCTGTCTGGATTATTCATTATTACATGAAGTATCATGTTTCTGAAAAAC  
 CATATGGCATAGTTGAAAAGAAGTCCAGAATATCCCTGGTGATACAATCTGGAGACTG  
 GAGAAGTAATCCACCAATGAAAGAATTCCTGATCAACATCATTAAAGATTATGTA  
 AGTAAAAGGCTTATGAGCCTAAGTTTGTCTCTATATTACCATATTTACTGAATTTTCTG  
 GAAAAGTAACTTTAATAAAGTTTAACTCTCAGAAAAANNAANNNNAANNNANNNN  
 NNNNANAANAAAAAANAAAAAANAAAAAANAAAAAANAAAAAANAAAAAANAAAAA  
 NNNNANAANAAAAAANAAAAAANAAAAAANAAAAAANAAAAAANAAAAAANAAAAA  
 GGGACTTAGTTGTTCTGAACAGATCCGGGTTGAATCCTTGTACCCCTTCCCCAGGGCC  
 TTTCCGGCCTGGAAATTTGCCCTTCCGTGCCCCAGCCTTGCCTAAAAAATAAGTG  
 CATAATTTGCCCACTGGTGCCTTCTATAAATAAGGGGTGGAGGGGTGTGAATGGAA  
 CCAAGGCAATTTGAAAACACACC



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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_002493 unedited GGGGTGGGTGTGTATTAATAAAGCTAACTTATCTAANCCNNGGCNTCCGTTATTANAAC TTTCTATCAAGATTTTCTTTTNCANNAAATTNCAGTNAATTATTGGTAATATAGGGAAC AAACTTAGGCTCATAAGCCTTTTAACTTTTACATAATCTTTAATGATGTTGATCAGGAA ATTCTTTCATTGGTGAATTACTTCTCCAGTCTCCAGAATTGTATCACCAGGGAATTC TGGACTTCTTTTCAACTATGCCATATGGTTTTTTCAGAAACATGATACTTCATGTAATAAT GAATAATCCAGACAGGTACAAGTACATGAGTGAAAACAAAGATACTCTTTTTGTATACCC CATGGACCATTTTCTCCAAGGGGATTTATTCTCCAAAAATTTATCCAGAATTTCTCCA TAGGCCCATCTTCTGTGGGGCAGCACCGGCTCCCGAGGGCTCAGCTCCTGGTCTTCA GCCATCGCCTTCTCAGCTCTCGCAGCTGCTGCAGCCGAGTTTCTCATCCGGAGTGATACC CCGTCATGTCGCGCTGGTACCAACGCAAAGGACACGGCGCACCTCGAACTACGGACT AGTTACTTAAGCGCGCTCCCGCTCTGCAAAGCCTCGTGCCGAATTCGCGGCCGCCCTATA GTGAGTCGATTACAAAATCTGACGGTCACTAAACGAGCTCTGCTTATATAGACCTCC CACCGTACACGCCTACCGCCATTTGCGTCAACGGGGCGGGTTATTACGACATTTTGGAA AAAGTCCCGTTGATTTTGGTGCCAAAACAACTCCCATGACGTCAATGGGGTGGAGAC TTGAAATCCCGTGAATCAAACCGCTATCCACCCCATTTGGTGTACTGGCCAAAACCCC ATTACCATGGTTAATAGCGAATGACTAATACCTTTCATGTTCTGCCAATAAGTAAAGT CCCGCTAAGTN
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_002493
<b>Insert Size:</b>	650 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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_002493.3</a></u> , <u><a href="#">NP_002484.1</a></u>
<b>RefSeq Size:</b>	862 bp
<b>RefSeq ORF:</b>	387 bp
<b>Locus ID:</b>	4712
<b>UniProt ID:</b>	<u><a href="#">O95139</a></u>
<b>Cytogenetics:</b>	9p21.1
<b>Protein Families:</b>	Transmembrane

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

**Gene Summary:** The protein encoded by this gene is a subunit of the multisubunit NADH:ubiquinone oxidoreductase (complex I). Mammalian complex I is composed of 45 different subunits. It locates at the mitochondrial inner membrane. 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. Alternative splicing occurs at this locus and three transcript variants encoding distinct isoforms have been identified. [provided by RefSeq, Jan 2011]  
Transcript Variant: This variant (1) encodes the longest isoform (1).