

## Product datasheet for **SC117269**

### NDUFB10 (NM\_004548) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** NDUFB10 (NM\_004548) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** NDUFB10  
**Synonyms:** PDSW  
**Vector:** pCMV6-XL5  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**Cell Selection:** None  
**Fully Sequenced ORF:** >OriGene ORF within SC117269 sequence for NM\_004548 edited (data generated by NextGen Sequencing)

```
ATGCCGGACAGCTGGGACAAGGATGTGTACCCTGAGCCCCGCGCCGACGCCGGTGCAG
CCCAATCCCATCGTCTACATGATGAAAGCGTTCGACCTCATCGTGGACCGACCCGTGACC
CTCGTGAGAGAATTTATAGAGCGGCAGCAGCAAAGAACAGGTATTACTACTACCACCGG
CAGTACCGCCGCGTGCCAGACATCACTGAGTGCAAGGAGGAGGACATCATGTGCATGTAT
GAAGCCGAAATGCAGTGGAAAGAGGGACTACAAAGTCGACCAAGAAATTATCAACATTATG
CAGGATCGGCTCAAAGCCTGTCAGCAGAGGGAAGGACAGAACTACCAGCAGAAGTGTATC
AAGGAAGTGGAGCAGTTCACCCAGGTGGCCAAGGCCTACCAGGACCGCTATCAGGACCTG
GGGGCCTACAGTTCTGCCAGGAAGTGCCTGGCCAACAGAGGCAGAGGATGCTGCAAGAG
AGAAAAGCTGCAAAGAGGCCGCGCTGCCACCTCCTGA
```

Clone variation with respect to NM\_004548.2

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_004548 unedited  
GCACGAGGCGCGGGACCCGGACGTAGGTAGAGGCCAGGGCAACCGTCCGGGAGCCGAGT  
CCGCGCCCGCCGCGCCATGCCGACAGCTGGGACAAGGATGTGTACCCTGAGCCCCCGC  
GCCGACGCCGGTGCAGCCCAATCCCATCGTCTACATGATGAAAGCGTTCGACCTCATCG  
TGGACCGACCCGTGACCCTCGTGAGAGAATTTATAGAGCGGCAGCAGCAAAGAACAGGT  
ATTACTACTACCACCGGCAGTACCGCCGCTGCCAGACATCACTGAGTGCAAGGAGGAGG  
ACATCATGTGCATGTATGAAGCCGAAATGCAGTGGAAAGAGGGACTACAAAGTCGACCAAG  
AAATTATCAACATTATGCAGGATCGGCTCAAAGCCTGTCAGCAGAGGGAAGGACAGAAGT  
ACCAGCAGAAGTGTATCAAGGAAGTGGAGCAGTTCACCCAGGT



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<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_004548 unedited  CGCAATCTAAAGTCGAGTTTTTTTTTTTTTTTTTTTTCAGGTTGCAGGGCTTTATATTTTCAG  CAACAGTCATACAGAGCCACACAGCAAGGGCACCCACAGCTGCCTCAGGAGGTGGCAGCG  GCGGCCCTTTTTGCAGCTTTTCTCTCTTGCAGCATCCTCTGCCTCTGTTTGGCCAGGCAC  TTCCTGGCAGAAGTGTAGGCCCCAGGTCTGATACCGGTCTGGTAGGCCTTGGCCACC  TGGGTGAAGTGTCCACTTCTTGATACACCTCTGCTGGTAGTTCTGTCCTTCCCTCTGC  TGACAGGCTTTGAGCCGATCCTGCATAATGTTGATAATTTCTTGCNCGACTTTGTAGTCC  CTCTTCCACTGCATTTTCGGCTTCATACATGCACATGATGCTCCTCCTTGCCTCAGTG  ATGTCTGGCACGCGGGTACTGCCGGTGTAGTAGTAATACCTGTTCTTTGCGTGCTGC  CGCTCTATAAATTCTCTCACGAGGGTACGGGTCCGATGAGGTGGAACGCTTTT  ATCATGTAGACGATGGGATTGGGCTGCACCGGCGTGGCGCGGGGGCTCAGGATACACA  TCCTTGTCCCATCTGTCCGGCATGGCGGCGGGGCGGGACTCCGCTCCCGACGCGTT  GCCCTGGCTCTACCTACGTCCGGTCCCGCGCTCGTGCCGAATTCGCGGCCGCCCTAT  ATGGAGTCGCATAACAAATTCTGACGGTACCAAACAGCTCTGCCTATTAGACCTCCCA  CCGACACCCTCCCGCCATTGCGTAACGGGGCCGGTTATTACCACATTTTGGAAAGCCC  GTTGATTTTGTGCCAAACAACCCATTGCCGCAATGGGCGGAGACTGGAACCCCGGG  GTCAACCGCTTTCCCGCCATGGGACCTCCAAACCCCTTCTGGAACGCGACTAACCC  TATATTCGCCCTCTGAAACCCCTACGTCT</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_004548
<b>Insert Size:</b>	720 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>	<a href="#">NM_004548.1</a> , <a href="#">NP_004539.1</a>
<b>RefSeq Size:</b>	736 bp
<b>RefSeq ORF:</b>	519 bp
<b>Locus ID:</b>	4716
<b>UniProt ID:</b>	<a href="#">O96000</a>
<b>Cytogenetics:</b>	16p13.3

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

**Gene Summary:** Accessory subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I), that is believed not to be involved in catalysis. Complex I functions in the transfer of electrons from NADH to the respiratory chain. The immediate electron acceptor for the enzyme is believed to be ubiquinone.[UniProtKB/Swiss-Prot Function]