

## Product datasheet for **SC117303**

### NDUFB2 (NM\_004546) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NDUFB2 (NM_004546) Human Untagged Clone
Tag:	Tag Free
Symbol:	NDUFB2
Synonyms:	AGGG; CI-AGGG
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 SC117303 sequence for NM_004546 edited (data generated by NextGen Sequencing) ATGTCCGCTCTGACTCGGCTGGCGTCTTTCGCTCGCGTTGGAGGCCCTTTTCAGAAGC GGCTGCGCACGGACTGCTGGAGATGGTGGAGTCCGTCATGCCGGTGGTGTGCACATT GAGCCCCGGTATAGACAGTTCCCCAGCTGACCAGATCCCAGGTGTTCCAGAGCGAGTTC TTCAGCGGACTCATGTGGTTCTGGATTCTCTGGCGCTTTTGGCATGACTCAGAAGAGGTG CTGGGTCACTTCCGTATCCTGATCCTTCCCAGTGGACAGATGAAGAATTAGGTATCCCT CCTGATGATGAAGACTGA

Clone variation with respect to NM\_004546.2



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_004546 unedited TACATTTGTATACGACTACTATAGGCGGCCGCGAAATTCGCACGAGGGGACCGCGGGGCG GACGGGAGCGAGTATGTCCGCTCTGACTCGGCTGGCGTCTTTTCGCTCGCGTTGGAGGCCG CCTTTTCAGAAGCGGCTGCGCACGGACTGCTGGAGATGGTGGAGTCCGTCATGCCGGTGG TGGTGTGCACATTGAGCCCCGGTATAGACAGTTCCTCCAGCTGACCAGATCCCAGGTGTT CCAGAGCGAGTTCTTCAGCGGACTCATGTGGTTCTGGATTCTCTGGCGCTTTTGGCATGA CTCAGAAGAGGTGCTGGGTCACCTTCGGTATCCTGATCCTTCCAGTGGACAGATGAAGA ATTAGGTATCCCTCCTGATGATGAAGACTGAAGGTGTAGACTCAGCCTCACTCTGTACAA GAGCCAGAGCTAGCAACATGGACCACAGATATACTGGTACTCCGCTCTCCTCTGGCCAA GCTACAAATCATCACCTGAGGCAGAGATGCTACTACCCTCTTCTGGNGCTCAACTACCGA TGGGCATCAGTAATCCATCCCAGTATAACATTTCAAGGATGTGCTGGAGACAATACATGG ACTTTCTCTTTCAATGGCGAGGAATGAAACANGATACAAGAACCACAGCATGGAATATGT TTTCTTTTACATCCAATGGCCCGTCCATAAAGGATGCCTTGAGACCTCCACCCTGTCCC CCACAGCGCTTTGGGACAGGATGACTAACGCAGTCCAACCTATGTGCAATCAGTTCCTGG GAAAAATTTACTTTTAAACTTGAATCATTGTCTAGTCGGCACAATACTCTGGAAGT ATAAAACCAATTCGGCCTATATCAATCCCTCTAATAAAACATGATGCTGCCACAT CAGTACTTTACCTAACTCCCAATTT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_004546
<b>Insert Size:</b>	2820 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_004546.2</a> , <a href="#">NP_004537.1</a>
<b>RefSeq Size:</b>	509 bp
<b>RefSeq ORF:</b>	318 bp
<b>Locus ID:</b>	4708
<b>UniProt ID:</b>	<a href="#">O95178</a>
<b>Cytogenetics:</b>	7q34
<b>Protein Pathways:</b>	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. This protein has NADH dehydrogenase activity and oxidoreductase activity. It plays a important role in transferring electrons from NADH to the respiratory chain. The immediate electron acceptor for the enzyme is believed to be ubiquinone. Hydropathy analysis revealed that this subunit and 4 other subunits have an overall hydrophilic pattern, even though they are found within the hydrophobic protein (HP) fraction of complex I. [provided by RefSeq, Jul 2008]