

Product datasheet for **SC117304**

NDUFB4 (NM_004547) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NDUFB4 (NM_004547) Human Untagged Clone
Tag:	Tag Free
Symbol:	NDUFB4
Synonyms:	B15; CI-B15
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC117304 sequence for NM_004547 edited (data generated by NextGen Sequencing)

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ATGTCGTTCCCAAAGTATAAGCCGTCGAGCCTGCGCACTCTGCCTGAGACCTCGACCCA
GCCGAATACAACATATCTCCGAAACCCGCGGGCGCAAGCCGAGCGGTTGGCCATAAGA
GCCCAGCTGAAACGAGAGTACCTGCTTCAGTACAACGATCCCAACCGCCGAGGGCTCATC
GAAAATCCTGCCTTGCTTCGTTGGGCTATGCAAGAACAATAAATGTCTATCCTAATTTTC
AGACCCACTCCTAAAACTCACTCATGGGAGCTCTGTGTGGATTGGGCCCTCATCTTC
ATTTATTATTATCAAAACTGAGAGGGATAGGAAAGAAAACTTATCCAGGAAGGAAAA
TTGGATCGAACATTTACCTCTCATATTA
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Clone variation with respect to NM_004547.5

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_004547 unedited
GGCGGCCGCAATTCGGCAGGAGATGTCGTTCCCAAAGTATAAGCCGTCGAGCCTGCG
CACTCTGCCTGAGACCTCGACCCAGCCGAATACAACATATCTCCGAAACCCGCGGGC
GCAAGCCGAGCGGTTGGCCATAAGAGCCAGCTGAAACGAGAGTACCTGCTTCAGTACAA
CGATCCCAACCGCCGAGGGCTCATGAAAATCCTGCCTTGCTTCGTTGGGCTATGCAAG
ACAATAAATGTCTATCCTAATTTTCAGACCCACTCCTAAAACTCACTCATGGGAGCTCT
GTGTGGATTTGGGCCCTCATCTTCATTTATTATTATCAAAACTGAGAGGGATAGGAA
AGAAAACTTATCCAGGAAGGAAAATTGGATCGAACATTTACCTCTCATATTAAGTCTG
GCAATGATGACTATATGTATTCTGCCTAAATAAATCATCTATTAATCATTAAAAAGAAA
AAAAAAAACCTGACTTTATATTGCGGCCGGGTAATATCTTTTTCTGAACAAATCCCG
GGGTGGGATCCCTTGGACCCCTCCCGAGGGCTTCTGGCCCTGGAAGTTGCCCTCAGG
GCCCCAGCCTTGGCCTAATAAATAAGTGGATATTGTGTGNGNNCNCNNNNNAAAAANN
AAAAANNNGAGGAGAGNCNAGAGCAGGGGGAGAAAGA
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_004547 unedited CCAATTTGNCCGGGCCGATTCTACACNCGGTTTTTTTTTTTTTTTTTTTTTAAATGATTAATA GATGATTTATTTAGGCAGGAATACATATAGTCATCATTGCCAGACTTAATATGAGAGGTG AAATGTTTCGATCCAATTTTCTTCTGGATAAGTTTTTCTTCTATCCCTCTCAGTTTT GATAATAATAAATGAAGATGAGGGGCCAAATCCACACAGAGCTCCCATGAGTGAGTT TTTAGGAGTGGTCTGAAATTAGGATAGACATTTATTGTTCTTGCATAGGCCAACGAAG CAAGGCAGGATTTTCGATGAGCCCTCGGCGTTGGGATCGTTGACTGAAGCAGTACTC TCGTTTTAGCTGGCTCTTATGGCCAACCGCTCGGCTTGCGCCCGGGTTCCGGAGA TATGTTGTATTCCGCTGGTTCGAGGGTCTCAGGCAGAGTGCGCAGGCTCGACGGCTTATA CTTTGGGAACGACATCTCTCGTGCCGAATTCGCGGCCGCCCTATAGTGAGTCGTATTACA AAATTCTGACGGTTCACTAAACGAGCTCTGCTTATATAGACCTCCACCGTACACGCCTA CCGCCATTTGCGTCAACGGGGCGGGTATTACGACATTTGGAAAGTCCCGTTGATTT TGGTGCCAAAACAACTCCCATTGACGTCACATGGGGTGGAGACTTGAAATCCCTGTGA GTCACACCGCTATCCACGCCATTGGTGTACTGCCAACCCGCATCACCATGGTAATAGC GATGACTAATACGTACATGTACTGCCAAGTAGGAAAGTCCCGTANGGCCATGTACTGGGC ATCATGCTCACGGGCCATATACCGTCATTGACGTCAATAGGGGGCCGAACTTGGCTATG ATCACCTTGATGTCTGCCAGANNGGCAGTTTACCGTCAAACCTCACCTATGCCGCCAATG GAAGCCCT
Restriction Sites:	NotI-NotI
ACCN:	NM_004547
Insert Size:	500 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_004547.4 , NP_004538.2
RefSeq Size:	541 bp
RefSeq ORF:	390 bp
Locus ID:	4710
UniProt ID:	O95168
Cytogenetics:	3q13.33
Protein Families:	Transmembrane

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

Gene Summary: This gene encodes a non-catalytic subunit of the multisubunit NADH:ubiquinone oxidoreductase, the first enzyme complex in the mitochondrial electron transport chain (complex I). Mammalian complex I is composed of 45 different subunits and transfers electrons from NADH to ubiquinone. [provided by RefSeq, Dec 2009]
Transcript Variant: This variant (1) represents the shorter transcript but encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.