

## Product datasheet for **SC116996**

### NDUFAB1 (NM\_005003) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NDUFAB1 (NM_005003) Human Untagged Clone
Tag:	Tag Free
Symbol:	NDUFAB1
Synonyms:	ACP; ACP1; FASN2A; SDAP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM\_005003 edited  
TTCGGCACGAGGCCATGGCGTCTCGTGTCTTTTCAGCCTATGTCAGCCGCCTGCCCGCGG  
CCTTTGCGCCGCTGCCCCGGGTCCGGATGCTGGCCGTGGCCCGCCTCTCAGCACCGCTC  
TCTGCTCCGCGGGGACCCAGACGAGGCTCGGGACTTTGCAGCCGCCTTAGTGCTCGCGC  
AGGTTCTGGTAGAGTTACACAGTTGTGCCGCCAGTATAGCGACATGCCTCCTTTGACGT  
TAGAGGGCATCCAGGACCGTGTCTTTACGTATTGAAACTCTATGACAAGATTGACCCAG  
AGAAGCTTTTCAGTAAATTCTCATTTTATGAAAGACCTGGGCTTAGACAGTTTGGACCAAG  
TGGAGATTATCATGGCCATGGAAGACGAATTTGGGTTTAAAATTCCTGATATAGATGCTG  
AAAAGTTAATGTGTCCACAAGAAATTTAGATTACATTGCAGATAAGAAGGATGTATATG  
AATAAAGTATCAGACCCTTTGGCTTTGCTGAGAGAGGACTCAGATGATAGTGACGAATGT  
CTGGCAGTGAGGACACATTTTGGCATTCTTGCTGACTCTGACAGAGTGATTCTGATGGAC  
TTGTATTTAAATTGTATGTGTTTTACTCTTTGAAAATAAATCTATAAAACCAAAAAAAAA  
AAAAAAAAACTCGACTCTAGATTGCGGCCGCGGTATAGCTGTTTCTGAACAGATCCCG  
GGTGGCATCCCTGTGACCCTCCCAGTGCCTCTCCTGGCCCTGGAAGTTGCCACTCCAG  
TGCCACCAGCCTTGCTCAATAAAATTAAGTTGCATCATTTTGTCTGACTAGGTGTCCT  
TCT



[View online »](#)

<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_005003 unedited            CCGCACGAGGCCTGGCGTCTCGTGTCTTTTCAGCCTATGTGAGCCGCCTGCCCGCGGCCT            TTGCGCCGCTGCCCCGGGTCCGGATGCTGGCCGTGGCCCGGCCTCTCAGCACCGCTCTCT            GCTCCGCGGGGACCCAGACGAGGCTCGGGACTTTGAGCCGCCTTAGTGCTCGCGCAGG            TTCCTGGTAGAGTTACACAGTTGTGCCGCCAGTATAGCAGATGCCTCCTTTGACGTTAG            AGGGCATCCAGGACCGTGTCTTTACGTATTGAAACTCTATGACAAGATTGACCCAGAGA            AGCTTTCAGTAAATTCTCATTTTATGAAAGACCTGGGCTTAGACAGTTTGGACCAAGTGG            AGATTATCATGGCCATGGAGACGAATTTGGGTTTGAATTCCTGATATAGATGCTGAAA            AGTTAATGTGTCCACAAGAAATTGTAGATTACATTGCAGATAAGAAGGATGTATATGAAT            AAAGTATCAGACCCTTTGGCTTTGCTGAGAGAGGACTCAGATGATAGTGACGAATGTCTG            GCAGTGAGGACACATTTTGGCATTCTTGTGCTGACTCTGACAGAGTGATTCTGATGGACTTG            TATTTAAATTGTATGTGTTTTACTCTTTGAAAATAAATCTATAAAACCAAAAAAAAAAAAA            AAAAACTCGACTCTAGATTGCCGGCCGCGGTATAGCTGTTTCTGAACAGATCCCGGG            TGGCATCCCTGTGACCCCTCCCCAGTGCCTCTCCTGGCCCTGAAAGTGCCACTCCAGTG            CCCACCAGCCTTGTCTATTAATTAAGTTGCATCATTTTGTCTGACTAGGTGTCCCTCT            ATATATTCGCGGTGAGGGGGGGGGTTGGGAACACGGGCCATTTTGAGAACACAACCGG            AGGCCTGCCGGGTCTTTTGAACAACCTTGAATGCAG</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_005003 unedited            GGACGCGCCGCGATTCTANATCGAGTTTTTTTTTTTTTTTTTTTTTGGTTTTATAGATTTATT            TTCAAAGAGTAAAACACATACAATTTAAATACAAGTCCATCAGAATCACTCTGTCAGAGT            CAGCAAGAATGCCAAAATGTGCTCCTCACTGCCAGACATTCGCTACTATCATCTGAGTCTCT            CTCTCAGCAAAGCCAAAGGGTCTGATACTTTATTCATATACATCCTTCTTATCTGCAATG            TAATCTACAATTTCTTGTGGACACATTAACTTTTTCAGCATCTATATCAGGAATTTCAAAC            CCAAATTCGTCTTCCATGGCCATGATAATCTCCACTTGGTCCAAACTGTCTAAGCCCAAGG            TCTTTCATAAAATGAGAATTTACTGAAAGCTTCTCTGGGTCAATCTTGTGCATAGAGTTTC            AATACGTAAGAACACCGGTCTGGATGCCCTCTAACGTCAAAGGAGGCATGTGCGTATAC            TGGCGGCACAACGTGTAACCTCTACCAGGAACCTGCGCGAGCACTAAGGCCGGCTGCAAA            GTCCCGAGCCTCGTCTGGGTCCCCGCGGAGCANAGAGCGGTGCTGAGAGGCCGGGCCACG            GCCAGCATCCGGACCCGGGGCAGCGGCCAAAGGCCGGGCAGGCGGCTGACATAGGCT            GAAAGGACACGAGACGCCATGGCCTCGTGCCGAATCTGACGGTCACTAAACGAGCTCT            GCTTATATAGACCTCCCACCGTACACGCCTACCGCCATTTGCGTCAACGGGGCGGGGTT            ATTACGACACTTTTGAAGTCCCGTTGATTTTGGTGCAAAAACAACCTCCCATGACGTCAA            TGGGTGGAGACTTGAATCCCCGTGAGTCAACCGCTATCCCGCCCATGGTGTACTGCCAA            CCGCTCACCTGGAATAGCGAGACTATACCTNAAGTCC</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_005003
<b>Insert Size:</b>	3500 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\\_005003.2](#), [NP\\_004994.1](#)

**RefSeq Size:** 804 bp

**RefSeq ORF:** 471 bp

**Locus ID:** 4706

**UniProt ID:** [O14561](#)

**Cytogenetics:** 16p12.2

**Domains:** pp-binding

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

**Gene Summary:** Carrier of the growing fatty acid chain in fatty acid biosynthesis (By similarity). Accessory and non-catalytic subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I), which functions in the transfer of electrons from NADH to the respiratory chain (PubMed:27626371).[UniProtKB/Swiss-Prot Function]