

Product datasheet for **SC108534**

NDUFB8 (NM_005004) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NDUFB8 (NM_005004) Human Untagged Clone
Tag:	Tag Free
Symbol:	NDUFB8
Synonyms:	ASHI; CI-ASHI; MC1DN32
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_005004, the custom clone sequence may differ by one or more nucleotides

```
ATGGCGGTGGCCAGGGCCGGGTCTTGGGAGTCCAGTGGCTGCAAAGGGCATCCCGAACGTGATGCCGC
TGGGCGCACGGACAGCCTCCACATGACCAAGGACATGTTCCCGGGCCCTATCCTAGGACCCAGAAAGA
ACGGGCCCGCCGCCAAGAAGTATAATATGCGTGTGGAAGACTACGAACCTTACCCGGATGATGGCATG
GGGTATGGCGACTACCCGAAGCTCCCTGACCGCTCACAGCATGAGAGAGATCCATGGTATAGCTGGGACC
AGCCGGCCCTGAGGTTGAACTGGGTGAACCGATGCACTGGCACCTAGACATGTACAACAGGAACCGTGT
GGATACATCCCCACACCTGTTTCTTGGCATGTCATGTGTATGCAGCTCTTCGGTTTCTGGCTTTCATG
ATATTCATGTGCTGGGTGGGGACGTGTACCCTGTCTACCAGCCTGTGGGACCAAAGCAGTATCCTTACA
ATAATCTGTACCTGGAACGAGCGGTGATCCCTCAAAGAACCAGAGCGGGTGGTTCACATGAGATCTG
A
```

5' Read Nucleotide Sequence:

```
>OriGene 5' read for NM_005004 unedited
GCACGAGGCCTCGTGCCGAATTCGGCACGAGGGTGAAGATGGCGGTGGCCAGGGCCGGGG
TCTTGGGAGTCCAGTGGCTGCAAAGGGCATCCCGAACGTGATGCCGCTGGGCGCACGGA
CAGCCTCCACATGACCAAGGACATGTTCCCGGGCCCTATCCTAGGACCCAGAAAGAAC
GGGCCCGCCGCCAAGAAGTATAATATGCGTGTGGAAGACTACGAACCTTACCCGGATG
ATGGCATGGGGTATGGCGACTACCCGAAGCTCCCTGACCGCTCACAGCATGAGAGAGATC
CATGGTATAGCTGGGACCAGCCGGCCCTGAGGTTGAACTGGGTGAACCGATGCACTGGC
ACCTAGACATGTACAACAGGAACCGTGTGGATACATCCCCACACCTGTTTCTTGGCATG
TCATGTGTATGCAGCTCTTCGGTTTCTGGCTTTCATGATATTCATGTGCTGGGTGGGG
ACGTGTACCCTGTCTACCAGCCTGTGGGACCAAAGCAGTATCCTTACAATAATCTGTACC
TGAACGAGGCGGGTGTCCCTCCA
```



3' Read Nucleotide Sequence:	>OriGene 3' read for NM_005004 unedited GCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTAAACACAGCACTGAGTTTTAT TAGGGATTTTCATTAAGGTTAAATTTCTAGGAATGAGGGAGTCCTAGTTAGAGGACCCAAA AGCCCACGAAGCCTCCTCAGATCTCATAGTGAACCACCCGCTCTGGTTCTTTGGAGGGAT CACCGCCTCGTTCCAGGTACAGATTATTGTAAGGATACTGCTTTGGTCCCACAGGCGGGT CCACAGGGTACTTGTTTTCGTCCCCCGCCCGTGTTCCTCACCCCTGTGCGGTCCGCCT ACTCCTTTCCCTTTATTTATCCTCCATCCCCCACTCTTCCCCCCCCCTTTTTTC CCGTTCCCATCCCTTGTTTTGTCCAACCATGTCCATCTACTCCCATCCCCCGCTT ACTTTCTCCTTCGTATTACCTTCCCCCCTCCATTTTTTCCCCCCCCCTTTCCCT TCCTTTCCATTTCGTTTCCTTTTACCTCCACCGTTTCATTCCCCCCCCGTTTTTCCCC CCCCCTTCGCCCCCTTGCCCCCCCCCGCGTTTTCCCTTTTACCCNNTTCCCC CCTTCGGTCCCGTTCGTTTCCTCCCTTCTCCCTTCCCCCCTTCCCTCCGTTCTTCT GTACCCCCCGGCTCATTGCTTTCCTCCTTCCCCCCTCCTCCTCTCTCGCCACT TTTCCCTTCTCCACATTTCTCTCAATCCCTCGCCTTCTCTCCCCATTTTTGCC CATTTTATGTTTTCTCCCCCTTCCCGATTTTTTCTCCCCCCCCCTTTCTGCC CCCCTGTTTCCCGTTTCGTACCCCTCCCTCCCTCTTTCCCCCATGCCCCCA CCCCTCCTTGCTTGTCCCCCACCCTCCACTCTTATTTTACTCCATT
Restriction Sites:	NotI-NotI
ACCN:	NM_005004
Insert Size:	730 bp
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.
	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
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_005004.2 , NP_004995.1
RefSeq Size:	686 bp

RefSeq ORF: 561 bp

Locus ID: 4714

UniProt ID: [O95169](#)

Cytogenetics: 10q24.31

Protein Families: Transmembrane

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]
Transcript Variant: This variant (1) encodes the longest isoform (1).