

Product datasheet for **SC118616**

NDUFA2 (NM_002488) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NDUFA2 (NM_002488) Human Untagged Clone
Tag:	Tag Free
Symbol:	NDUFA2
Synonyms:	B8; CD14; CIB8; MC1DN13
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_002488 edited ATGGCGGGCGCCGAGCAAGTCGAGGAGTCGGGGCAAAGCTGGGCCTGCGTGAGATTCGG ATCCACTTATGTCAGCGCTCGCCCGGCAGCCAGGGCGTCAGGGACTTCATTGAGAAACGC TAGCTGGAGCTGAAGAAGGCGAATCCCGACCTACCCATCCTAATCCGCGAATGCTCCGAT GTGCAGCCCAAGCTCTGGGCCGCTACGCATTTGGCCAAGAGACGAATGTCCCTTTGAAC AACTTCAGTGCTGATCAGGTAACCAGAGCCCTGGAGAACGTTCTAAGTGGTAAAGCCTGA
5' Read Nucleotide Sequence:	>OriGene 5' read for NM_002488 unedited ATTCGGCAGGAGCTGGAATTGGCGACTTCGATATTAACAAGGATGGCGGGCGCCGAGCA AGTCGAGGAGTCGGGGCAAAGCTGGGCCTGCGTGAGATTCGCATCCACTTATGTCAGCGC TCGCCCCGCGAGCCAGGGGTCAGGGACTTCATTGAGAAAACGCTACGTGGAGCTGAAGAAG GCGAATCCCGACCTACCCATCCTAATCCGCGAATGCTCCGATGTGCAGCCCAAGCTCTGG GCCCGCTACGCATTTGGCCAAGAGACGAATGTCCCTTTGAACAACTTCAGTGCTGATCAG GTAACCAGAGCCCTGGAGAACGTTCTAAGTGGTAAAGCCTGAAGCCTCCACTGAGGATTA AGAGCAACAGCCCCAGAGCCTGGGCTCTGCTGGACTTAGTATAATGTGAAAAAATGTGTT CTCCTATTCCTCATAAAGCTTTGTGCTGTAAAAAAAAAAAAAAAAAAAAAAAAACTCGACTC TAGATTGCGGCCCGGTATAGCNTGTTTCCTGAACAGATCCCGGGTGGGCATCCTGTGA CCCCTTCCCAGTGCCTCTCCCTGGCCTTGAAGGTTGCCACTCCAGNGGCCACCCACC CTTGGTCTAATAAAAATTAAGTTGCATCATTTTGGCTGACTAGGTGTCCNTTATATATAT GGGANGGGGGGGGGGGGGGNGNNGNNGNNGNNGNNGNNGNNGNNGNNGNNGNNGNNGNNGN NNNNGGNCNNNGGGGGGNNNNGGNGNNGNNGNNGGNGNNGGNGGGGNNNGCANNNNGG TGNGNGGCCGACA



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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_002488 unedited TCTGGACCGCGCCGCAATCTAGNAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTACAG CACAAAGCTTTATGAGGAAATAGGAGAACACATTTTTTTTACATTATACTAAGTCCAGCAGA GCCCAGGCTCTGGGGCTGTTGCTCTTAATCCTCAGTGGAGGCTTCAGGCTTTACCACTTA AAACGTTCTCCAGGGCTCTGGTTACCTGATCAGCACTGAAGTTGTTCAAAGGGACATTTCG TCTCTTGGCCAAATGCGTAGCGGGCCAGAGCTTGGGCTGCACATCGGAGCATTGCGGGA TTAGGATGGGTAGTTCGGGATTTCGCCTTCTTCAGCTCCACGTAGCGTTTTCTCAATGAAGT CCCTGACGCCCTGTCTGCCGGGCGAGCGTGACATAAGTGGATGCCAATCTCACGCAAGC CCCTCTTTGCCCCCACTCCTCCACTTGTGGCCCCCGCTTCTCCTTTTTTTTTCATTCCCC CCCTCTCCCCCTTCTCCTCTCCCCCCCCCTCTCCCCCCCCCTTCTTTTTCCACCCCT CTCTCCCCCCCCACCTTCTCTTCTCCCCCCCCCCCCCTCCCTTCTCCCCCCTCTCCC GCCCTCTCTTCCCTTCCCGCAAATTACCCACATACCCCTCNGCTCTCCCAACACGCC NTACCTACCACATGCGCGATGCCCCCCCGCTCCCTCCTCCCTCCCCCTTTTCCCT CCCCCCTCCCTCATCCCTCCTCCCCCTCATCATTTTTCCGCACNACCTCTCACCCCC CTTTTTACCATCCCCCCATCCTCCCTCCTTACTACCTCTATATCCCTCCTCCCCAT CCCCCTCCCTTACTTCTCCCCCTTTTTTCCCCCCCCCTTCCCTCCCTTCCCCCCCC CCCTTTTCCCCACCTCCTCTTTCCCCACCCCTTTTCCCCCCCCCTTCCGTCCTCCCC TCCTTTA
Restriction Sites:	NotI-NotI
ACCN:	NM_002488
Insert Size:	430 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:	<u>NM_002488.2</u> , <u>NP_002479.1</u>
RefSeq Size:	600 bp
RefSeq ORF:	300 bp
Locus ID:	4695
UniProt ID:	<u>O43678</u>
Cytogenetics:	5q31.3
Domains:	L51_S25_CI-B8

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

Gene Summary: The encoded protein is a subunit of the hydrophobic protein fraction of the NADH:ubiquinone oxidoreductase (complex 1), the first enzyme complex in the electron transport chain located in the inner mitochondrial membrane, and may be involved in regulating complex I activity or its assembly via assistance in redox processes. Mutations in this gene are associated with Leigh syndrome, an early-onset progressive neurodegenerative disorder. Alternative splicing results in multiple transcript variants.[provided by RefSeq, May 2010]
Transcript Variant: This variant (1) represents the shortest transcript and encodes the longer isoform (1).