OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC116999

NDUFB9 (NM_005005) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NDUFB9 (NM_005005) Human Untagged Clone
Tag:	Tag Free
Symbol:	NDUFB9
Synonyms:	B22; CI-B22; LYRM3; MC1DN24; UQOR22
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_005005, the custom clone sequence may differ by one or more nucleotides

ATGGCGTTCTTGGCGTCGGGACCCTACCTGACCCATCAGCAAAAGGTGTTGCGGCTTTATAAGCGGGCGC
TACGCCACCTCGAGTCGTGGTGCGTCCAGAGAGACAAATACCGATACTTTGCTTGTTTGATGAGAGCCCG
GTTTGAAGAACATAAGAATGAAAAGGATATGGCGAAGGCCACCCAGCTGCTGAAGGAGGCCGAGGAAGAA
TTCTGGTACCGTCAGCATCCACAGCCATACATCTTCCCTGACTCTCCTGGGGGCACCTCCTATGAGAGAT
ACGATTGCTACAAGGTCCCAGAATGGTGCTTAGATGACTGGCATCCTTCTGAGAAGGCAATGTATCCTGA
TTACTTTGCCAAGAGAGAACAGTGGAAGAAACTGCGGAGGGAAAGCTGGGAACGAGAGGTTAAGCAGCTG
CAGGAGGAAACGCCACCTGGTGGTCCTTTAACTGAAGCTTTGCCCCCTGCCCGAAAGGAAGGTGATTTGC
CCCCACTGTGGTGGTATATTGTGACCAGACCCCGGGAGCGGCCCATGTAG

View online »

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005005 unedited
NGAATGTTCGCATTTTGTNATACGACTCCTATAGGCGGCCGCGNATTCGGCACCAGNAGA
GAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGA
GAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGA
GAGAGAGAGGGAAGGTCAGCGCCGTAATGGCGTTCTTGGCGTCGGGACCCTACCTGACCC
ATCAGCAAAAGGTGTTGCGGCTTTATAAGCGGGCGCTACGCCACCTCGAGTCGTGGTGCG
TCCAGAGAGACAAATACCGATACTTTGCTTGTTTGATGAGAGCCCGGTTTGAAGAACATA
AGAATGAAAAGGATATGGCGAAGGCCACCCATCTGCTGAAGGAGGCCGAGGAAGAATTCT
GGTACCGTCAGCATCCACAGCCATACATCTTCCCTGACTCTCCTGGGGGCACCTCCTATG
AGAGATACGATTGCTACAAGGTCCCAGAATGGTGCTTATATGACTGGCATCCTTCTGAGA
AGGCAATGTATCCTGATTACTTTGCCAAGAGAGAACAGTGGAAGAAACTGCGGAGGGAAA
GCTGTGAACGAGAGGTTATGCATCTGCAGGAGGAAACGCCACCTGGTGGTCCTTTAACTG
AAGCTTTGCCCCCTGCCCGAAAGGAAGGTGATTCTGCCCCCACTGTGGTGGTATATTGTG
ACCAGACCCCGCGAGCGGCCCCTGTTTTAAAGAGAGAGACCTCATCTTTTCTGCTTGCCA
GTTGAATATGTTTCAGAACATGCACTTTGCCCTATTTAAAAATCAGTGCAATTGGTCCAC
AAAAACAAAACAATACTCTCTCTTTTTATTGCGGCCGCGGTCTTATTTGTTTTTTTGTCC
A

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_005005 unedited
GTACCGCGGCACGCAATCTAGTGTCGAGTTTTTTTTTTTTTTTTTTGACCATTTCACTG
ATTTTTTATTAAGGCAAGTGCATGTTCTGTAACATATTTCACTTGCAAGCATGAAAGATG
AAGTCTCTCTCTTTCTACATGGGCCGCTCCCGGGGTCTGGTCACAATATACCACCACAGT
GGGGGCAAATCACCTTCCTTTCGGGCAGGGGGCAAAGCTTCAGTTAAAGGACCACCAGGT
GGCGTTTCCTCCTGCAGCTGCTTAACCTCTCGTTCCCAGCTTTCCCTCCGCAGTTTCTTC
CACTGTTCTCTCTTGGCAAAGTAATCAGGATACATTGCCTTCTCAGAAAGATGCCAGTCA
TCTAAGCACCATTCTGGGACCTTGTAGCAATCGTATCTCTCATATGAAGTGCCCCCAGGA
GAGTCAAGGAAGATGTATGGCTGTGGATGCTGACGGTACCAAAATTCTTCCTCGGCCTCC
TTCAGCAGCTGGGGGGCCCTCGCCAAAACTTTTTATTCTTATGCCTTCAACCGGCCTCTC
TAAAAAACAAAGATCGGCATTTGCCTTCTGGACCCCCACAACTGAGGGGCGTACGCCCCT
ATAATACACAACACCTTTCCTGCGGGCACGCACGCCCCACTCCAAACACCACACGGCCCC
CACCCCCCCGTCTCTCTTCCCGCCCCCCCCCCCCCCCCGTTCACACGGACAAAACTACC
CGCCGAATCCTCACCCCCACCCCCTCACACGCGACTAATTCCCCGTCCCACTCGCCGCGC
GCCACGACCAGCCACAACAGTGACCTAATCTCTTCTCAGCCACCCCATCTCCCACCTACC
CGGATCCACCCGATCCACCATATACTATCTCCACCCCCCACATACACCACACACCCACCA
ACACACTACAGCAGATCTCCTCATCCTCTCTGCAACACACCCCACCATCTCTACTCGCCG
TTTCCCTATCTCCTTTCCCG

Restriction Sites: NotI-NotI

ACCN: NM_005005

Insert Size: 860 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:	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_005005.1, NP_004996.1
RefSeq Size:	740 bp
RefSeq ORF:	540 bp
Locus ID:	4715
UniProt ID:	Q9Y6M9
Cytogenetics:	8q24.13
Protein Pathways:	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 mitochondrial oxidative phosphorylation complex I (nicotinamide adenine dinucleotide: ubiquinone oxidoreductase). Complex I is localized to the inner mitochondrial membrane and functions to dehydrogenate nicotinamide adenine dinucleotide and to shuttle electrons to coenzyme Q. Complex I deficiency is the most common defect found in oxidative phosphorylation disorders and results in a range of conditions, including lethal neonatal disease, hypertrophic cardiomyopathy, liver disease, and adult-onset neurodegenerative disorders. Pseudogenes of this gene are found on chromosomes five, seven and eight. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2015]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).