

## Product datasheet for **SC110959**

### NDUFA6 (NM\_002490) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NDUFA6 (NM_002490) Human Untagged Clone
Tag:	Tag Free
Symbol:	NDUFA6
Synonyms:	B14; CI-B14; LYRM6; MC1DN33; NADHB14
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_002490, the custom clone sequence may differ by one or more nucleotides

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ATGGGAAAAGACATTCGCCCGCGGTCCGCACGCGCTGCTTGCAAAGGGTGGGGTTGTGGAGTGGATGCT
TTGGCAAGATGGCGGGGAGCGGGTCCGCCAAGCTACTTCTACCGCCAGCACCTTCGTGAAGCCCATTTT
CAGTCGGGACATGAACGAGGCCAAGCGGAGGGTGC GCGAGCTCTACCGCGCCTGGTATCGGGAGGTGCCG
AACACTGTGCACCAATTCAGCTGGACATCACTGTGAAAATGGGACGGGATAAAGTCCGAGAAATGTTTA
TGAAGAATGCCCATGTCACAGACCCAGGGTGGTTGATCTTCTGGTCATTAAGGGAAAGATCGAACTGGA
AGAAACAATTAAGTATGGAAGCAGCGGACACATGTTATGCGGTTCTTCCATGAAACAGAAGCGCCAAGG
CCAAAGGATTTCTATCCAAGTTCTATGTTGCCACGATCCATGA
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_002490 unedited</p> <pre> CGGTTCAGGATATGTATCCGACTTATATAGGCGGCCGCGCAATTCGCACGAGGGTCCGCC AAGCTACTTCTACCGCCAGCACCTTCGTGAAGCCCATTTTCAGTCGGGACATGAACGAGG CCAAGCGGAGGGTGC GCGAGCTCTACCGCGCCTGGTATCGGGAGGTGCCGAACACTGTGC ACCAATTCAGCTGGACATCACTGTGAAAATGGGACGGGATAAAGTCCGAGAAATGTTTA TGAAGAATGCCCATGTCACAGACCCCAAGGTGGTTGATCTTCTGGTCATTAAGGGAAGA TCGAAGTGAAGAAACAATTAAGTATGGAAGCAGCGGACACATGTTATGCGGTTCTTCC ATGAAACAGAAGCGCCAAGGCCAAAGGATTTCTATCCAAGTTCTATGTTGGCCACGATC CATGAAGTCATTCAAGTGAAGATGCACGTTGATACTATTTTAGAGCACAAATAAACTCA CTATACAATGGTCACTTTGTGATAGAATTCATTGATGAAAAAAAAAAAAAAAAAACTCG ACTCTAGATTGCGGCCGCGGTACATAGCTGTTTCTGAACAGATCCCGGGTGGCATCCCTG TGACCCCTCCCAAGTGCCTCTCCTGGCCCTGGAAGTTGCCACTCCAGTCCCACCAGCCT TGTCTAATAAAAATTAAGTTGCATCATTTTGTCTGACTAGGTGCCTTCTAATATTATG GGTGGNAAGGGGGTGGTATTGGAGCAGGGNGCAANGTTNGAAGACAACCTGTNAGGCC TGCGNGGTCTATTGGGAACCAAGCTGGAGTGCAGTGGCACAATCTTGGCTCACTGCAATC TCCGCCTCCTGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCAGTTGTGGGAATCCACG CT </pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_002490 unedited</p> <pre> ACCGCGGCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTTCATCAATGGAATTCTAT CACAAAGTGACCATTGTATAGTGAGTTTATTTGTGCTCTAAAATAGTATCAACGTGCATC TTTCCACTGAATGACTTCATGGATCGTGGCCAACATAGAACTTGGATAGGAAATCCTTTG GCCTTGCGCTTCTGTTTCATGGAAGAACCGCATAACATGTGTCCGCTGCTTCCATACTT TAATTGTTTCTTCCAGTTCGATCTTTCCCTTAATGACCAGAAGATCAACCACCCTGGGGT CTGTGACATGGGCATTCTCATAAACATTTCTCGGACTTTATCCCGTCCCATTTTCACAG TGATGTCCAGCTGGAATTGGTGCACAGTGTTCGGCACCTCCCGATACCAGGCGCGGTAGA GCTCGCGCACCTCCGCTTGGCCTCGTTCATGTCCCGACTGAAAAATGGGCTTCACGAAGG TGCTGGCGGTAGAAGTAGCTTGGCGGACCCTCGTGCCGAATTCGCGGCCGCCCTATAGTG AGTCGTATTACAAAATCTGACGGTTCACTAAACGAGCTCTGCTTATATAGACCTCCCAC CGTACACGCCTACCGCCATTTGCGTCAACGGGGCGGGTTATTACGACATTTTGGAAAG TCCCGTTGATTTTGGTGCCAAAACAACTCCCATTGACGTCAAATGGGGNGGAGACTTGGTA AATCCCGTGAGTCAACCGCTTCCACGCCATGGTGTACTGCCAAAACGCATCCCATGGTA TAGCGAGACTATACGTANATGACTGCCAAGAGGAAGTCCCGTAGGTCATGACTGGCATAT GCACGCGGCCTTACGTCATGACGAATAGGGGCGACTTGATATGAACATTGAGACTGCAG TGCCCTT </pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_002490
<b>Insert Size:</b>	520 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\\_002490.3](#), [NP\\_002481.2](#)

**RefSeq Size:** 1202 bp

**RefSeq ORF:** 465 bp

**Locus ID:** 4700

**UniProt ID:** [P56556](#)

**Cytogenetics:** 22q13.2

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

**Gene Summary:** This gene encodes a member of the LYR family of proteins that contain a highly conserved tripeptide (LYR) motif near the N-terminus. The encoded protein is an accessory subunit of NADH: ubiquinone oxidoreductase (Complex I), which is the largest enzyme of the mitochondrial membrane respiratory chain. Complex I functions in electron transfer from NADH to the respiratory chain. [provided by RefSeq, Oct 2016]