

Product datasheet for **SC105006**

NDUFS8 (AK002110) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NDUFS8 (AK002110) Human Untagged Clone
Tag:	Tag Free
Symbol:	NDUFS8
Synonyms:	CI-23k; CI23KD; TYKY
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for AK002110, the custom clone sequence may differ by one or more nucleotides

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AAGTAGCGGGCGGCGCTTCAAGATGCGCTGCCTGACCACGCCTATGCTGCTGCGGGCCCTGGCCCAGGCTG
CACGTGCAGGACCTCCTGGTGGCCGGAGCCTCCACAGCAGTGCAGTGGCAGCCACCTACAGTGAGTACCT
GGGTGGCCTCTGGCCTCAGGTGTTCTGACTGGTCTGCTGGAGTAGGGGAAGAGACCTGAGTTCAGTC
CTGGCTTTGTGAGGGCGTTCTTCTCTGGCCTGTTTCCACTTTTAAAATGATTATGGTATGGAGACTG
ACTCTGATTACAGGGGAGGGTCCATCATTGCCGAGGTTAGCATGTGTGATCTCAGAGCTCCCTGGGTG
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AGGCTCAAGCCCCACCTACCCCTTATTCTCTTTCAAGCCCTGTTGGCAGGGAAGTGCCTCTGG
GCTCCAATGGCCACCAAGCACAGGGAGAGGTAGGCACGGACGGGCTCAGGCCAGAGGGCGCTCCAGGG
TCCTTGCTGAGGCTGGGAGAGGTGTGGTGTGACAGCCCTTTGTAGCCAGCAGTTGCACCTGGAA
GTGAGGGCCAGGCTGCTCTCCCTGAGGCTCCAGGGAGACAGTGTGTGAGGCTCTTGCCATGGCCTCCCT
GCCCGCTCTCTGAGAGTATGTGAACATGCAGGATCCCGAGATGGACATGAAGTCAGTACTGACCGGG
CAGCCCGCACCTGCTGTGGACTGAGCTCTCCGAGGTGCGTCTGGGCAGGAGGGGACAGGGAAGGTGC
CGGTGGGCACGGATGCATGGGGAGGAGGGTGGCCCTGCCACACACCCGTGCTGCCACAGGCTGG
GCATGACCCTGAGCTACCTGTTCCGGGAACCGGCCACCATCAACTACCCGTTTCGAGAAGGGCCCGTGG
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CTCTGCGAGGCCATCTGCCCCGCCAGGTGAGCCCTGCCCAACCGGCCACACGCCAGCCCTGCCAC
TGGGAGAGGGAGGCCAGGCAGCCCTAGGCCAAACCCCTAGCCCTGCTTGATGTGCGTCCCAGGAAGTC
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TTAGGGGCCAGGCACAGTGGCTCACACCTGATCCAAGTCTTTGGGAGGTCAAGGTGAGGGGATTACT
TGAGCCAGGAGTTGAGACCAGCTGGCAACATGGCAAAACCCGACTCTACAACAACAA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for AK002110 unedited
 CCCCTTCNGGATTACGTATACGATTCATATAGGCGGCCGCGCAATCGGCACGAGGGCA
 AGGCAAGTAGCGGCGGCGCTTCAAGATGCGCTGCCTGACCACGCCTATGCTGCTGCGGGC
 CCTGGCCAGGCTGCACGTGCAGGACCTCTGGTGGCCGAGCCTCCACAGCAGTGCAGT
 GGCAGCCACCTACAGTGAAGTACCTGGGTGGCCTTAGCCTCAGGTGTTCTGACTGGTCC
 TGCTGGAGTAGGGGAAGAGACCTGAGTTCAGTCTGGCTTTGTCAGGGGCGTTCTTCTC
 TGAGCTGTTTTCCACTTTTAAAAATGATTATGGTATGGAGACTGACTCTGATTCACAGGG
 GCAGGGTCCATCATTGCCGAGGTTAGCATGTGTGATCTCAGAGCTCCCTGGGTGTGATGG
 GGAGNGGGGTTGCCAGGTGTGAGCCATGGGTACCTGTGCCTATTGCCAGTCCCTGGTGAA
 GGCAAAGGCTCAAGCCCCCACCTACCCCTTGATTCCTTTTCAAGCCCTGTTGGGCA
 GGGAAAGTGCCTGGGCTCCAATGGCCACCAAGCACAGGGAGAGGTAGGCACGGACGGG
 CTCAGGCCAGAGGCGCCTCCAGGGTCTTGCTGAGGCTGGGAGAGGTGTGGTTGAGTG
 TACAGCCCTTTGTACCCAGCAGTTGCACCTGGAAGTGAAGGCCAGGCTGCTCTCCCTG
 AGGCTCCAGGGAGACAGTGTGTGACGGCTCTTTGCCATGGCCTCACTTGCCCCCTCT
 CTGAGAGTATGTGAACATGCCANGATCCCTGAGATGGACCATGAAATCACTGACTTGAC
 CGGGCAGCCCCGACCCTGCTGGGGACTGAGCTCTTCCGAGGCTGGGCATGCACTCT
 GAGCTACCTTGNTCCGGGAACCCGCC

3' Read Nucleotide Sequence:

>OriGene 3' read for AK002110 unedited
 NGGCTCCTTAGNACCGCGCCGATTCTAAGATCGGTTTTTTTTTTTTTTTTTTTTTTTTT
 TTTTTTTTTTTTTTTTTTTTTTTTTTTTAAACAGGGGACCTGGGGTGGCAGGCTCATCCT
 TTAGGGCTTATAAAGATGAAACAATAACCTCGACCTCCTCGAGGGTTGGGAAATTAC
 AGGAAAGGCTGTGAGTCACACATGGCACAACAACGGGTCTGTCTGTGGACAGCACTCA
 CTGTCTGGAAGCCAAGTTGGGACCATCGGGACTGCTGTTTGGGACACTCCTATGCACT
 CTCATTCCGTGGCTGGAGTAAAAACATCAGGGCCGAGCTCATGGCTGGAGGACCTGGG
 AGTGCTCAAAGGACAACTAGGATCTGGACAGGAGCCACCCGAGTCACAAAACACTGGG
 AGGGTTGCTGTGCACACAAAAGTANCGACGGCGGCTGCCGGGGCTCCTGCCAGGCACA
 CACAGGGTCTGACCAAAGCTCTGACCGAGTCATATTGTTCCCGTGTGGCAGGCCTGGC
 CCCCACGGTAAGCACGAGACCCACTAATATAACGGAAAGCCGGCCTCAGGGGAGCAGC
 CACTGGGAAGGGAAGCTGCAACAGGCACACAAGCAGGACTCCGAAACGGTGGTACAT
 CCAGGGAGGCGTGGATGGCCCTCAGTGTACCCCATGGCTCAAAGGCCCCAGGGTCAACC
 CTTGGCCAGACCCNAGGGGAACCTCTGGGTGTTAGGCGCTGCCAGGGCTGGAAGCTT
 ACTCTGCCAATCACTGACTTTGGGCTCTGGGAAACAGCCCTCATAATCCCATTCACGA
 GGAAGTGGCCCCAAAAGGGGAAAGAGGACTTCCCCGGGGC

Restriction Sites:

NotI-NotI

ACCN:

AK002110

Insert Size:

2000 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>AK002110.1</u>
RefSeq Size:	3073 bp
RefSeq ORF:	3073 bp
Locus ID:	4728
Cytogenetics:	11q13.2
Domains:	fer4
Protein Pathways:	Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease
Gene Summary:	This gene encodes a subunit of mitochondrial NADH:ubiquinone oxidoreductase, or Complex I, a multimeric enzyme of the respiratory chain responsible for NADH oxidation, ubiquinone reduction, and the ejection of protons from mitochondria. The encoded protein is involved in the binding of two of the six to eight iron-sulfur clusters of Complex I and, as such, is required in the electron transfer process. Mutations in this gene have been associated with Leigh syndrome. [provided by RefSeq, Mar 2010]