

Product datasheet for **SC108422**

NDUFA10 (NM_004544) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NDUFA10 (NM_004544) Human Untagged Clone
Tag:	Tag Free
Symbol:	NDUFA10
Synonyms:	CI-42k; CI-42KD; MC1DN22
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC108422 sequence for NM_004544 edited (data generated by NextGen Sequencing)

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ATGGCCTTGC GGCTCCTGAAGCTGGCAGCGACGTCCGCGTCCGCCGGGTCTGGCGGCG
GGCGCCAGCGCGTGAGAGGAATTCATAGCAGTGTGCAAGCTGCGCTATGGAATG
TGGCATTTCCTACTTGGGGATAAAGCAAGCAAAAAGACTGACAGAACGCAGCAGAGTGATA
ACTGTAGATGGCAATATATGTAAGTGGAAAAGGCAAACTTGCAAAAAGAAATAGCAGAGAAA
CTAGGCTTCAAGCACTTTCCTGAAGCGGGGATTTCATTATCCAGACAGTACCACAGGAGAT
GGGAAGCCCTCGCCACCGACTATAATGGCAACTGTAGTTGGAGAAATTTACGATGAT
CCGAGAAGCAATGATGGCAACAGTTACCGCCTGCAGTCTGGTTGTACAGCAGTCGCCTG
CTGCAGTACTCAGATGCCTTGGAGCACTTGCTGACCACAGGACAAGGTGTTGTTGGAG
CGCTCCATCTTCAGTGACTTTGTGTTCCCTGGAGGCGATGTACAACCAGGGATTTCATCCGA
AAGCAGTGTGTGGACCACTACAACGAGGTGAAGAGCGTCAACCATCTGCGATTACCTGCC
CCCCACCTGGTGATTTACATCGATGTGCCCGTTCCAGAGGTCCAGAGGGGATTTCAGAAG
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GCTCATCAGACTGACCGTGTCTTACATCAGTTCAGAGAGCTGCCGGGCCGCAAGTACAGC
CCTGGGTACAACCCGAGGTGGGAGACAAGTGGATCTGGCTGAAGTGA

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Clone variation with respect to NM_004544.3
105 a=>g



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004544 unedited
 TCAGTATATTTGTAATACGCACTCACTATAGGGCGGCCGCAATTCGCACGAGGGTAGC
 CATGGCCTTGGCGCTCCTGAAGCTGGCAGCGACGTCCGCGTCCGCCCGGGTCGTGGCGGC
 GGGCGCCAGCGCGTGAGAGGAATTCATAGCAGTGTGCAGTGCAGCTGCGCTATGGAAT
 GTGGCATTTCCTACTTGGGGATAAAGCAAGCAAAGACTGACAGAACGCAGCAGAGTGAT
 AACTGTAGATGGCAATATATGTACTGAAAAGGCAAACCTGCAAAAGAAATAGCAGAGAA
 ACTAGGCTTCAAGCACTTTCCTGAAGCGGGGATTATTATCCAGACAGTACCACAGGAGA
 TGGGAAGCCCCTCGCCACCGACTATAATGGCAACTGTAGTTTGGAGAAATTTTACGATGA
 TCCGAGAAGCAATGATGGCAACAGTTACCGCTGCAGTCTGGTTGTACAGCAGTGCCT
 GCTGCAGTACTCAGATGCCTTGGAGCACTTGTGACCACAGGACAAGGTGTTGTGTTGGA
 GCGCTCCATCTTCAGTGACTTTGTTCCTGGAGGCGATGTACAACCAGGGATTCATCCG
 AAAGCAGTGTGTGGACCACTACAACGAGGTGAAGAGCGTCACCATCTGCGATTACCTGCC
 CCCNCACCTGGTGATTTACATCGATGTGCCGTTCCAGAGGTCCAGAGGCGGATTCAGAA
 GAAGGAGATCACATGAAATGAAAATCACCTCTGCCTATCTACAGGACATTGAGAATGCCT
 ATAAGAAAACCTTCTNCCTGAGATGAGGTGAAAATGTGAGGTTTTACAATATTCTGCAG
 GGAAGCTTCAGATTCAAAAGGTGGTAGAAGACAATGAATACCTGAAGTNCGATAAAGG
 GCGTGGCTCAAGCAGCAATGCCCTTTATACACTGCGATACTG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004544 unedited
 ATGACCCGCGGGCCGAATCTAAAGTCGAGTTTTTTTTTTTTTTTTTTTCCCATGGAAACA
 CTTTTATTTCTGGAAGTCAGAAGAAAAACAATGTGCACAACCTGAATGACACAGAGCGGC
 AGCGCTGAAACCACAGGGGCTGCCGAGAGCTGGCCTTTCACAGCAGACCACTGTTTTCCA
 GTGAGAATGGTGGCCATTCCAAAACAAAGCTAAAGGGTTCCAAACATCCAGAATGGAAG
 CTGCTTCCCCCACTCCATTACCTATACTACAGGATGGATTGCTTTTTGTGAGACCCCTT
 CTTCCACTGTGCAATTTTTGCATTATTTACCCTCCCCCGATCTTAAAGCTATATGGCGTC
 CAGGAGAGTGGCGCTGATGCAGCTTGGCCATCACTGTGATGCAGCTGGAGCAGAAGGCGG
 CCCGTTCACTTCAGCCAGATCCACTTGTCTCCACCTCGGTGTTGTACCCAGGGCTGTAC
 TTGCGGCCCGGACGCTCTCTGAAGTGTGTAAGACACGGTCAGTCTGATGAGCTCCAATG
 GTGACTTCCGGGAGAAAGATAGGAATGCTTGTGTAATTCAGCACCTCAAACCTTATCCTGA
 ACCAGTAATCGCAGGTGGTATAAAGTGCATTGCTCCTGCTTGGAGCCACGCCCTTTATCG
 AACTCCAGGTATTCAATGTCCTCTACCACCTTTTTTGAATCTTGAGCTTCCCTTGCAGAA
 TATTGTAACCACTCACATTTTTCACTCATCTCAGGGAAAAAGGTTTCTTATAGGCATTCT
 CAATGCTCCTGANATAGCAGAGGTGATCTTCATTCTGGGGATCTCTTTCTTCTGAACCG
 NCTCTGCACTNTTGGACGGCCCATCGATGTAATCCCAGGTGGG

Restriction Sites:

NotI-NotI

ACCN:

NM_004544

Insert Size:

1530 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_004544.2, NP_004535.1</u>
RefSeq Size:	1557 bp
RefSeq ORF:	1068 bp
Locus ID:	4705
UniProt ID:	<u>O95299</u>
Cytogenetics:	2q37.3
Domains:	dNK
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 component of 42 kDa complex I, the first enzyme complex in the electron transport chain of mitochondria. This protein has NADH dehydrogenase activity and oxidoreductase activity. It transfers electrons from NADH to the respiratory chain. A mutation in this gene was found in an individual with Leigh syndrome. [provided by RefSeq, Apr 2016]