

## Product datasheet for SC322210

### 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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for SC322210  
 CCTTGGGTCCTTGATCCTGAGCTGACCGGGTAGCCATGGCCTTGGCGCTCCTGAAGCTGG  
 CAGCGACGTCCGCGTCCGCCCGGGTCGTGGCGGGCGGCCAGCGCGTGAGAGGAATTC  
 ATAGCAGTGTGCAGTGAAGCTGCGCTATGGAATGTGGCATTTCCTACTTGGGGATAAAG  
 CAAGCAAAAGACTGACAGAACGCAGCAGAGTGATAACTGTAGATGGCAATATATGTACTG  
 GAAAAGGCAAACTTGCAAAAGAAATAGCAGAGAACTAGGCTTCAAGCACTTTCCTGAAG  
 CGGGGATTCATTATCCAGACAGTACCACAGGAGATGGGAAGCCCTCGCCACCGACTATA  
 ATGGCAACTGTAGTTTGGAGAAATTTACGATGATCCGAGAAGCAATGATGGCAACAGTT  
 ACCGCCTGCAGTCTGGTGTACAGCAGTCGCCTGCTGCAGTACTCAGATGCCTTGGAGC  
 ACTTGCTGACCACAGGACAAGGTGTTGTGTTGGAGCGCTCCATCTCAGTGACTTTGTGT  
 TCCTGGAGGCGATGTACAACCAGGGATTCATCCGAAAGCAGTGTGTGGACCACTACAACG  
 AGGTGAAGAGCGTCACCATCTGCGATTACCTGCCCCCCACCTGGTGATTACATCGATG  
 TGCCCGTTCCAGAGGTCCAGAGGCGGATTCAGAAGAAAGGAGATCCACATGAAATGAAGA  
 TCACCTCTGCCTATCTACAGGACATTGAGAATGCCTATAAGAAAACCTTCTCCCTGAGA  
 TGAGTGAAAAATGTGAGGTTTTACAGTATTCTGCAAGGGAAGCTCAAGATTCAAAAAAGG  
 TGGTAGAGGACATTGAATACCTGAAGTTCGATAAAGGGCCGTGGCTCAAGCAGGACAATC  
 GCATTTATACCACCTGCGATTACTGGTTCAGGATAAGTTTGAGGTGCTGAATTACACAA  
 GCATTCATCTTTCTCCCGAAGTCACCATTGGAGCTCATCAGACTGACCGTGTCTTAC  
 ATCAGTTCAGAGAGCTGCCGGCCGCAAGTACAGCCCTGGGTACAACACCGAGGTGGGAG  
 ACAAGTGGATCTGGCTGAAGTGAACGGGCGCCTTCTGCTCCAGCTGCATCACAGTGATG  
 GCCAAGCTGCATCAGCCGCACTCTCCTGGACGCCATATAGCTTTAAGATCGGGGGAGGGT  
 AAATAATGCAAAAATTGCACAGTGAAGAAGGGGTCTCAGAAAAAGCAATCCATCCTGTA  
 GTATAGGTAATGGAGTTGGGGGAAGCAGCTTCCATTCTGGATGTTTGAACCCCTTAGCT  
 TTGTTTTGGAATGGCCACCATTCTCACTGAAAAACAGTGGTCTGCTGTGAAAGGCCAGC  
 TCTCGGCAGCCCCTGTGGTTTCAGCGCTGCCGCTCTGTGTCAATCAGGTTGTGCACATTG  
 TTTTCTCTGACTTCCAGAAATAAAAGTGTTCATGGGAAAAAAAAAAAAAAAAAAAAA  
 AAAAAAAAAAAAA



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<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_004544
<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>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_004544.2</a></u> , <u><a href="#">NP_004535.1</a></u>
<b>RefSeq Size:</b>	1557 bp
<b>RefSeq ORF:</b>	1068 bp
<b>Locus ID:</b>	4705
<b>UniProt ID:</b>	<u><a href="#">O95299</a></u>
<b>Cytogenetics:</b>	2q37.3
<b>Domains:</b>	dNK
<b>Protein Pathways:</b>	Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease
<b>Gene Summary:</b>	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]