

Product datasheet for **SC117273**

NDUFS5 (NM_004552) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NDUFS5 (NM_004552) Human Untagged Clone
Tag:	Tag Free
Symbol:	NDUFS5
Synonyms:	CI-15k; CI15K
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_004552 edited ATGCCTTTCTTGGACATCCAGAAAAGTTTCGGCCTTAACATAGATCGATGGTTGACAATC CAGAGTGGTGAACAGCCCTACAAGATGGCTGGTCGATGCCATGCTTTTGAAAAAGAAATGG ATAGAATGTGCACATGGAATCGGTTATACTCGGGCAGAGAAAAGAGTGCAAGATAGAATAT GATGATTTTCGTAGAGTGTTCGCTTCGGCAGAAAACGATGAGACGTGCAGGTACCATCAGG AAGCAGCGGGATAAGCTGATAAAGGAAGGAAAGTACACCCCTCCACCTCACCACATTGGC AAGGGGGAGCCTCGGCCCTGA
5' Read Nucleotide Sequence:	>OriGene 5' read for NM_004552 unedited TACGACTACTATAGGGCGGCCGAATTCGGCAGAGGGCAGCATCGGCCATGCCTTTCT TTGGACATCCAGAAAAGTTTCGGCCTTAACATAGATCGATGGTTGACAATCCAGAGTGGTG AACAGCCCTACAAGATGGCTGGTCGATGCCATGCTTTTGAAAAAGAAATGGATAGAATGTG CACATGGAATCGGTTATACTCGGGCAGAGAAAAGAGTGCAAGATAGAATATGATGATTTTCG TAGAGTGTTCGCTTCGGCAGAAAACGATGAGACGTGCAGGTACCATCAGGAAGCAGCGGG ATAAGCTGATAAAGGAAGGAAAGTACACCCCTCCACCTCACCACATTGGCAAGGGGGAGC CTCGGCCCTGAACAGAGCAGCTGCTGATGTCTGGAGGCTGATTTTCTGTCTCTGTTCT CCTGAAAGGTTGTTTACGACAAACCTCCTTGTCAAAGCTGGAGTGCATGGCGTGGT CTCAGCTTACCGCAACCTCCGCCTCCCGGTTGAAGCGATTCTCCTGCCTCAGCTGCTGA GTAGCTGGGATTACAGGTGTGGCATCTGGCATGAAACCAAGGACAAGACTCAGTTGAG CTTTGTGAAAGAGTGACAGATGATGGATAGAGTCATGGGCTGCCTCTTATGGAGCTAAG AAATGAAATCTGGATACGGGTAATCAGTTTGTGGTAGAAAAGTAGTCACTCATTTCCGTGA GGGAAGCACAAGTCTGTGTANGCCAGAGAAAAGGAAAAGCCTTTNNTGGCATAANAGT GAAATGTGAGGGGTTGAGAGAGAAATGTCTGNANNGCTTGTANCATTCATGTTGTGCCCC TAAGGGACAGATACATTTGGACATGAGAAGCTGTAGTGAAGCCATGACTGCACACTGCACT TCCAGCTGGGCGACAGGTTGAGACCCTGNNNCTCAAAAANANANNANNNNNNAGAANNAN NAAAAAACTCGCTCTAATG



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3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_004552 unedited</p> <pre>CGCAATCTATAGTCGAGTTT GAAAAGGGTCTCAACCTGTGCGCCAACCTGGAGTGCAGTGGTGCAGTCATGGCTCACTAC AGCTTCTCATGTCCAAATGTTATCTGTCTTTAGGGCACAACATGAATGCTACAAAGCCT CCAAACCATTCTCTCTCCAACCTCAACATTCACTCTTATGCCCAAAAGGCTTTTTCC CTTCTCTGGGCCACACAAGACTTGTGCTTCCCTCACGGAAATGAGTGACTACTTTCTAC CACAAACTGATTACCCGTATCCAAATTTCAATTTCTTAACTCCATAAAAAGCAGGCCCATG ACTCTATCCATCATCTGTCACTCTTTCACAAAGCTCAACTGAGTGTCTTGGCCTTGGTTT CATGCCAGATGCCACACCTGTAATCCCAGCTACTCAGCAGCTGAGGCAGGAGAATCGCTT CAACCCGGGAGGCGGAGGTTGCGGTAAGCTGAAACCACGCCATCGCACTCCAGCTTGGAC AAGGAAGTTTGTGTAACAACCTTTCCAGTGGAGAACAGAGAACAGGAAAATCAGCCTC CAGACATCANCAGCTGCTCTGTTCAAGGCCGAGCCTCCCTTGCCAATGTGGTGAGGT GGAAGGGTGTACTTTCCTTCTTATCAGCTTATCCCGTCTTCTGATGGTACCTGCA CGTCTCATACGTTTCTGCCGAGCAAACACTCTACGAAATCATATTTCTTCTTGAC TCTTTCTTCTGCCGAGTTAACCATTCCATGTGCACATCTATTCTTTTTAAAGC ATGGATCGACCAGCCATTTGTAAGGCTTGTCACTCTTGATTGTAACCTCGATCTATT TAAGGCCAAACTTTTTGGATGCCANAAAGCATGCCGATCTCNCCTCTGCCGATTTCCGCC GCCCTTATAAGTCGTTTACAAATTTGAGGTCATAATCAACCTGCTATTAGACCC</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_004552
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_004552.1</u> , <u>NP_004543.1</u>
RefSeq Size:	540 bp
RefSeq ORF:	321 bp
Locus ID:	4725
UniProt ID:	<u>O43920</u>
Cytogenetics:	1p34.3
Protein Pathways:	Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease

Gene Summary:

This gene is a member of the NADH dehydrogenase (ubiquinone) iron-sulfur protein family. The encoded protein is a subunit of the NADH:ubiquinone oxidoreductase (complex I), the first enzyme complex in the electron transport chain located in the inner mitochondrial membrane. Alternative splicing results in multiple transcript variants and pseudogenes have been identified on chromosomes 1, 4 and 17. [provided by RefSeq, May 2010]

Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein.