

Product datasheet for **SC108715**

NDUFAF1 (NM_016013) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NDUFAF1 (NM_016013) Human Untagged Clone
Tag:	Tag Free
Symbol:	NDUFAF1
Synonyms:	CGI-65; CGI65; CIA30; MC1DN11
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC108715 sequence for NM_016013 edited (data generated by NextGen Sequencing)

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ATGGCTTTGGTTCACAAATTGCTGCGTGGTACTTATTTTCTCAGAAAATTCTCTAAGCCA
ACTTCTGCCTTGTATCCATTTTTGGGTATTCGCTTTGCAGAGTATTCCAGTAGTCTTCAG
AAACCAAGTGGCTTCTCCTGGCAAAGCCTCTCACAGAGGAAGACTGAAGGGGATTGCAA
GGAGATCACCAGAAAGAAGTTGCTTTGGATATAACTTCTTCTGAGGAGAAGCCTGATGTT
AGTTTCGATAAAGCAATTAGAGATGAAGCAATATACCATTTTAGGCTTTTGAAGGATGAA
ATTGTGGATCATTGGAGAGGACCGAAGGCCACCCTCTGCATGAGGTCTTGCTGGAACAA
GCCAAGTTGTCTGGCAATTCGGGGGAAAGAAGATTTGGATAAGTGGACAGTGACTTCT
GATAAGACGATTGGAGGCAGAAGTGAAGTGTTTTTGAAAATGGGCAAGAATAACCAAAGT
GCACTGCTATATGGAACCTGAGCTCTGAGGCGCCTCAGGACGGGGAGTCTACCCGAAGT
GGGTACTGTGCAATGATATCCAGGATTCCAAGGGGTGCTTTTGAGAGGAAGATGTCTTAC
GATTGGTCCCAGTTCAATACTCTGTATCTCCGTGTACGTGGGGATGGTCCGGCCTTGGATG
GTGAATATCAAGGAGGACACAGATTTCTTCCAGAGGACGAATCAGATGTATAGTTACTTC
ATGTTACCCCGGGGGACCCCTACTGGCAGGAGGTCAAGATTCCTTTTCCAAATTTTTC
TTCTCTAATCGAGGAAGAATCCGGGATGTTGAGCATGAGCTTCCGCTTGATAAGATCTCT
TCTATAGGATTCACCTTGGCTGATAAAGTGGATGGTCCATTCTTCTGGAGATAGATTTT
ATTGGCGTGTACTGATCCAGTCATACAGAAGAATTTGCCTATGAAAATCTCCAGAG
CTTAACCAAGGCTTTTTAAATAA
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Clone variation with respect to NM_016013.2



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_016013 unedited TCACCATTTTGTAAATACGACTTACTATAGGGCGGCCCGCAATTTCGCACGAGGGCTCGGG GAGGTAAGCGGGCAGGCCGGCGGTTGGTGTGTCCCGGGTGTGGGGAGGCGACAGAGCC CTGGCACTTGAGGGTTGAGGGGGCTCCCCAGCGCGGCAACCGTCTAGCCTCCGGAGGC CAGGCCGTGAGTGCGGGAGGTATACGCCAAGCGGAAGAATTTTGCCACTCACTACCTGT GTGACCTCGGGTAAATTAGCCTTGAACGTCAGTTTCTTCGTCTCTATAATTGAAATAAT AATAGTACTCTCTCAGGATTGTTGTGAGCCGTAGTGAACACTTAGAGCAGTTTCTGG CACATGGTAGAATTGGGCTATTTGCTGAAGCTTCTTGGTGGCCCTTGCTAGCCCAGGAAG AAACCTTACATTTTGATTTTTTTGTACCATGGCTTTGGTTCACAAAATTGCTGCGTGGTACT TATTTTCTCAGAAAATTCTAAGCCAATTCTGCCTTGATCCATTTTTGGGTATTTCGC TTTGCAGAGTATCCAGTAGTCTTCAGAAAACAGTGGCTTCTCCTGGCAAAGCCTCCTCA CAGAGGAAGACTGAAGGGGATTTGCAAGGAGATCACCAGAAAAGAAGTGTCTTTGGATATA ACTTCTTCTGANGAGAAGCCTGATGCTAGTTTCGATAAAGCAATTAGAGATGAAGCCATA TACCATTTTANGCTTTTAAAAGATGAAATTGTGGATCATTGGAGAGGACGNAAGCCACC CTCTGCATGANGTCTGTGGAACAGCCCAAGTTGTCTGGCCATTCCGGGGGAAGAAAGA TTGCATAATGGACAGTGACTTCTGATAAAAACAATTGGAAGCACAAATGAAATGTTTTTGG AAATGGCCAGAATACCCAAGGGCCCTGCTTTT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_016013 unedited NCCTGTCTTGAAGAAAATTTTATTTTGTCTATATCATTGTAGCAGCTAGTACCCTTAGAT TAGTAAAACAAAACACTACCATATGATCTTTATTTAAAAAGCCTTGGGTTAAGCTCTGGAGA ATTTTCATAGGCAAATTTCTGTATGAGCTGGATCAGTAAACACGCCAATAAAATCTAT CTCCAGGAAGAATGGACCATCCACTTTATCAGCCAAGGTGAATCCTATAGAAGAGATCTT ATCAAGCGGAAGCTCATGCTGAACATCCCGGATTCTCCTCGATTAGAGAAGAAAATTT GGAAAAAGGAATCTTGACCTCCTGCCAGTAGGGTCCCCCGCGGGTGAACATGAAGTAACT ATACATCTGATTCGCTCTGGAAGAAATCTGTGTCTCCTTGATATCACCATCCAAGG CCGACCATCCCCACGTACACGGAGATACAGAGTATTGAACTGGGACCAATCGTAAGACAT CTTCTCTCAAAAGCACCCCTTGGAAATCCTGGATATCATTGCACAGTACCCACTTCGGGT AGACTCCCCGTCTGAGGCGCCTCAGAGCTCAGAGTCCATATAGCAGTGCACCTTTGGTT ATCTTTGCCCATTTTCAAAAACACTTCACTTCTGCCTCCAATCGTCTTATCAGAAGTAC TGTCCACTTATCAAATCTTCTTTCCCCGGAATTGCCAGACAACCTTGGCTTGTCCAG CAAGACCTCATGCAGAGGGTGGCCTTNCGGTCTCCTCCATGATCCACAATTTTCATCCTTC AAAGCCTAAAATGGTATATTGCTTCATCTAATTGGCTTATCGAACTAACATCAGGCT TCTCCTCAGAAGAAGTATATCAAAGCAACTTCTTTCTGGTGATCTNCTTGCAAATCCCC TTCAGTCTTCTCTGTGAAGGAGCCTTGCC</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_016013
Insert Size:	1640 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:

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_016013.2](#), [NP_057097.2](#)

RefSeq Size: 1474 bp

RefSeq ORF: 984 bp

Locus ID: 51103

UniProt ID: [Q9Y375](#)

Cytogenetics: 15q15.1

Gene Summary: This gene encodes a complex I assembly factor protein. Complex I (NADH-ubiquinone oxidoreductase) catalyzes the transfer of electrons from NADH to ubiquinone (coenzyme Q) in the first step of the mitochondrial respiratory chain, resulting in the translocation of protons across the inner mitochondrial membrane. The encoded protein is required for assembly of complex I, and mutations in this gene are a cause of mitochondrial complex I deficiency. Alternatively spliced transcript variants have been observed for this gene, and a pseudogene of this gene is located on the long arm of chromosome 19. [provided by RefSeq, Dec 2011]

Transcript Variant: This variant (1) represents the predominant transcript and is protein-coding.