OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC320671

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

Fully Sequenced ORF:

>OriGene sequence for NM_016013.2
AAGCGGCGGCAGGCCGGCGGTTGGTGTGTCCCGGGTGTGGGGAGGCGACAGAGCCCTGGC
ACTTGAGGGTTGAGGGGGCCTCCCCAGCGCGGCGAACCGTCTAGCCTCCGGAGGCCAGGC
CGTGAGTGCGGGAGGTATACGCCAAGGCGGAAGAATTTTGCCACTCACTACCTGTGTGAC
CTCGGGTAAATTAGCCTTGGAACGTCAGTTTCTTCGTCTCTATAATTGAAATAATAATAG
TACCTCTCTCAGGATTGTTGTGAGCCGTCAGTGAAACACTTAGAGCAGTTTCTGGCACAT
GGTAGAATTGGGCTATTTGCTGAAGCTTCTTGGTGGCCCTTGCTAGCCCAGGAAGAAACT
TACATTTTGATTTTTTTGTACCATGGCTTTGGTTCACAAATTGCTGCGTGGTACTTATTT
TCTCAGAAAATTCTCTAAGCCAACTTCTGCCTTGTATCCATTTTTGGGTATTCGCTTTGC
AGAGTATTCCAGTAGTCTTCAGAAACCAGTGGCTTCTCCTGGCAAAGCCTCCTCACAGAG
GAAGACTGAAGGGGATTTGCAAGGAGATCACCAGAAAGAAGTTGCTTTGGATATAACTTC
TTCTGAGGAGAAGCCTGATGTTAGTTTCGATAAAGCAATTAGAGATGAAGCAATATACCA
TTTTAGGCTTTTGAAGGATGAAATTGTGGATCATTGGAGAGGACCGGAAGGCCACCCTCT
GCATGAGGTCTTGCTGGAACAAGCCAAGGTTGTCTGGCAATTCCGGGGGAAAGAAGATTT
GGATAAGTGGACAGTGACTTCTGATAAGACGATTGGAGGCAGAAGTGAAGTGTTTTTGAA
AATGGGCAAGAATAACCAAAGTGCACTGCTATATGGAACTCTGAGCTCTGAGGCGCCTCA
GGACGGGGAGTCTACCCGAAGTGGGTACTGTGCAATGATATCCAGGATTCCAAGGGGTGC
TTTTGAGAGGAAGATGTCTTACGATTGGTCCCAGTTCAATACTCTGTATCTCCGTGTACG
TGGGGATGGTCGGCCTTGGATGGTGAATATCAAGGAGGACACAGATTTCTTCCAGAGGAC
GAATCAGATGTATAGTTACTTCATGTTCACCCGCGGGGGACCCTACTGGCAGGAGGTCAA
GATTCCTTTTTCCAAATTTTTCTTCTCTAATCGAGGAAGAATCCGGGATGTTCAGCATGA
GCTTCCGCTTGATAAGATCTCTTCTATAGGATTCACCTTGGCTGATAAAGTGGATGGTCC
ATTCTTCCTGGAGATAGATTTTATTGGCGTGTTTACTGATCCAGCTCATACAGAAGAATT
TGCCTATGAAAATTCTCCAGAGCTTAACCCAAGGCTTTTTAAATAAAGATCATATGGTAG
TTTTGTTTTACTAATCTAAGGGTACTAGCATCTACAATGATATAGACAAAATAAAATATT
TCTTTAATGGCATCCAAAAAAAAAAAAAAAAAAA

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Restriction Sites:	Please inquire
ACCN:	NM_016013
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).
OTI Annotation:	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.
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.