

Product datasheet for **SC329606**

NDUFS1 (NM_001199982) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: NDUFS1 (NM_001199982) Human Untagged Clone
Tag: Tag Free
Symbol: NDUFS1
Synonyms: CI-75k; CI-75Kd; MC1DN5; PRO1304
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC329606 representing NM_001199982.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```

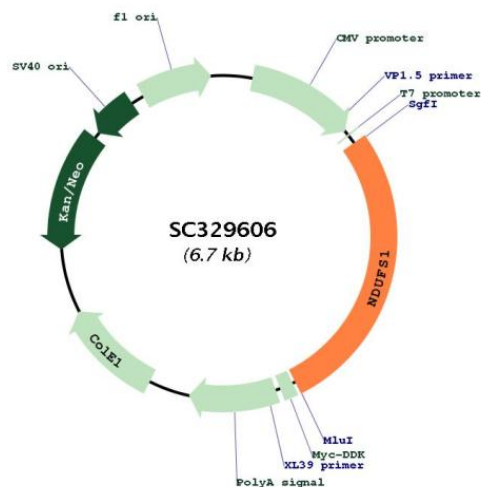
ATGTGGGAAGGTGTGATGGAGTTCTTATTAGCAAATCACCCATTGGACTGTCTATTTGTGACCAGGGA
GGTGAATGTGATCTGCAGGACCAGTCCATGATGTTGGAAATGATAGGAGCCGATTTTTAGAGGGGAAG
CGTGCTGTGGAAGACAAGAACATTGGGCCATTGGTAAAGACCATCATGACAAGATGTATACAGTGTACT
CGCTGCATCAGGTTTGAAGTGAAGTGCAGGAGTAGATGATTTGGGAACAACAGGCAGAGGAAATGAT
ATGCAAGTTGGCACATACATTGAAAAGATGTTTCATGTCTGAACTGTCTGGGAATATCATTGATATCTGC
CCTGTAGGTGCCCTAACCTCTAAGCCCTATGCCTTTACTGCCCGCCTTGGGAAACAAGAAAGACAGAA
TCCATTGATGTAATGGATGCGGTTGGAAGTAATATTGTGGTTAGCACAAGAACTGGAGAAGTGATGAGG
ATTTTGCACGTATGCATGAGGACATCAATGAAGAGTGGATCTCTGATAAAACCAGATTTGCCTATGAT
GGGCTAAAACGTCAAAGACTTACCGAGCCAATGGTCAGAAATGAAAAAGGGCTTTTAACTATACTTCT
TGGGAGGATGCGCTCTCTCGCGTAGCTGGAATGTTGCAGAGTTTTCAAGGCAAAGATGTGGCAGCAATT
GCAGGTGGCTTGGTGGATGCTGAAGCCCTGGTAGCTCTCAAAGATTTGCTTAATAGAGTGGACTCTGAC
ACCTTATGCACTGAAGAGGTCTTCCCCTGCAGGAGCTGGCACAGATTTGCGTTCCAATTATCTTCTT
AATACTACAATTGCTGGTGTGGAAGAGGCAGATGTTGTTCTTCTGGTTGGTACAAACCCACGTTTTGAG
GCACCACTGTTTTAATGCTAGAATTCGAAAGAGCTGGCTGCATAATGACTTAAAAGTGGCCCTTATAGGC
AGTCCAGTGGACCTCACTTACACATATGACCACCTGGGAGACTCCCCAAAATTCTCAAGACATTGCT
TCGGGAAGCCATCCATTTAGCCAGGTCCTAAAGGAAGCTAAAAACCAATGGTGGTTTTAGCGAGTTCT
GCACTCCAAAGAAATGATGGAGCAGCAATCTTGCAGCTGTTTCTAGCATTGCACAAAAGATTCCGGATG
ACTAGTGGTGTACTGGTATTGGAAAGTTATGAATATCCTTCATAGGATTGCAAGTCAAGTAGCTGCT
TTGGACCTTGGCTATAAGCCTGGGGTGAAGCAATTCGGAAGAACCCTCCCAAGGTGCTGTTTCTCCTG
GGAGCAGATGGAGTTGTATCACACGACAGGATTTGCCAAAGGATTTGTTTATTATCAAGGACAT
CATGGTGTGTTGGGCTCCCATAGCTGATGTTATTCTCCAGGAGCTGCTTACACAGAGAAGTCTGCT
ACATATGTCAACTGAGGGTAGAGCTCAGCAGACTAAGGTAGCAGTGACACCTCCTGGCTTGGCAAGA
GAAGACTGGAAAATTATAAGAGCACTCTCTGAGATTGCTGGAATGACTCTCCATATGACTCTGGAT
CAAGTAAGGAACAGATTGGAAGAAGTCTCTCCTAATCTTGTTTCGATATGATGATATTGAAGGGGCTAAT
TACTTCCAGCAAGCAAATGAGCTCTCAAAGCTAGTGAACCAGCAGCTTCTTGCTGACCCACTTGTCCA
CCTCAGCTAACTATAAAAGACTTCTACATGACAGATTCAATTAGCAGAGCCTCACAGACAATGGCCAAA
TGTGTCAAAGCTGTCACAGAGGGTGGCCAGGCAGTAGAGGAACCATCCATATGCTGA
  
```



[View online »](#)

Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM_001199982

Insert Size: 1851 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_001199982.1](#)

RefSeq Size: 3196 bp

RefSeq ORF: 1851 bp

Locus ID: 4719

UniProt ID: [P28331](#)

Cytogenetics: 2q33.3

Protein Pathways: Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease

MW: 67.5 kDa

Gene Summary: The protein encoded by this gene belongs to the complex I 75 kDa subunit family. Mammalian complex I is composed of 45 different subunits. It locates at the mitochondrial inner membrane. This protein has NADH dehydrogenase activity and oxidoreductase activity. It transfers electrons from NADH to the respiratory chain. The immediate electron acceptor for the enzyme is believed to be ubiquinone. This protein is the largest subunit of complex I and it is a component of the iron-sulfur (IP) fragment of the enzyme. It may form part of the active site crevice where NADH is oxidized. Mutations in this gene are associated with complex I deficiency. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2011]

Transcript Variant: This variant (3) lacks an alternate coding segment compared to variant 1, that causes a frameshift. The resulting isoform (3) has a shorter and distinct N-terminus compared to isoform 1.