

Product datasheet for **SC303206**

NDUFC1 (NM_002494) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: NDUFC1 (NM_002494) Human Untagged Clone
Tag: Tag Free
Symbol: NDUFC1
Synonyms: KFYI
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >SC303206 representing NM_002494.
Blue=Insert sequence **Red**=Cloning site **Green**=Tag(s)

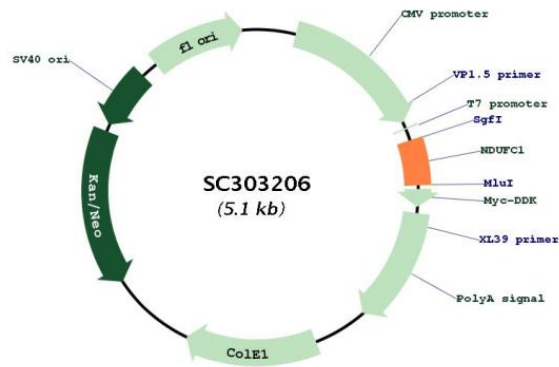
```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCGCCGTCCGCCTTGCTGCGTCCCCTTTCCCGGCTGCTGGCCCCGCCAGGCTCCCAGCGGCCCT
TCAGTGCGATCAAAGTTCTACGTGCGAGAGCCGCGAATGCCAAACCTGACTGGCTGAAAGTTGGGTTC
ACCTTGGGCACCACTGTCTTCTTGTGGATCTATCTCATCAAACAACAATGAAGATATTTAGAGTAC
AAAAGAAGAAATGGGCTGGATAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: Sgfl-Mlul



[View online »](#)

Plasmid Map:



ACCN: NM_002494

Insert Size: 231 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).

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_002494.3](#)

RefSeq Size: 860 bp

RefSeq ORF: 231 bp

Locus ID: 4717

UniProt ID: [O43677](#)

Cytogenetics: 4q31.1

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

MW: 8.7 kDa

Gene Summary: 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. [provided by RefSeq, May 2010]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 through 7 encode the same protein.