

Product datasheet for RC203155

NDUFB6 (NM 002493) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: NDUFB6 (NM_002493) Human Tagged ORF Clone

Tag:Myc-DDKSymbol:NDUFB6Synonyms:B17; CI

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)ORF Nucleotide>RC203155 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGACGGGGTACACTCCGGATGAGAAACTGCGGCTGCAGCAGCTGCGAGAGCTGAGAAGGCGATGGCTGAAGAGCCGATGGCTGAAGACCCGGAGAGCTGAGAAGCCCTCGGGAGCCGGTGCTGCCCCCACAGAAGATGGGGCCTATGGAGAAATTCTGGAATAAATTTTTGGAGAATAAATCCCCTTTGGAGGAAAATGGTCCATGGGGGTATACAAAAAAGAGTATCTTTGTTTTCACTCATGTACTTGTACCTGTCTGGATTATTCATTATTACATGAAGTATCATGTTTCTGAAAAACCCATATGGCATAGTTGAAAAGAAGTCCAGAATATTCCCTGGTGATACAATTCTGGAGACTGGAGAAGTAATTCCACCAATGAAAGAAGTTCCTGATCAACATCAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC203155 protein sequence

Red=Cloning site Green=Tags(s)

MTGYTPDEKLRLQQLRELRRRWLKDQELSPREPVLPPQKMGPMEKFWNKFLENKSPWRKMVHGVYKKSIF

VFTHVLVPVWIIHYYMKYHVSEKPYGIVEKKSRIFPGDTILETGEVIPPMKEFPDQHH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6434 a05.zip

Restriction Sites: Sgfl-Mlul



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

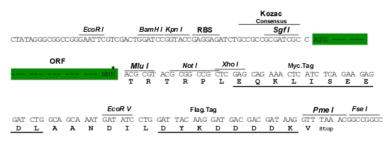
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_002493

ORF Size: 384 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of

reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

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 002493.5

 RefSeq Size:
 873 bp

 RefSeq ORF:
 387 bp

 Locus ID:
 4712

 UniProt ID:
 095139



Cytogenetics: 9p21.1

Protein Families: Transmembrane

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

Parkinson's disease

MW: 15.5 kDa

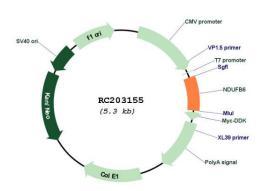
Gene Summary: The protein encoded by this gene is a subunit of the multisubunit NADH:ubiquinone

oxidoreductase (complex I). 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. Alternative splicing occurs at this locus and three transcript variants encoding distinct isoforms have been

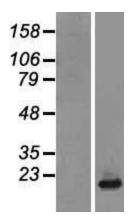
identified [provided by PofCog Jan 2011]

identified. [provided by RefSeq, Jan 2011]

Product images:

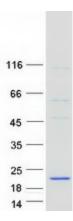


Circular map for RC203155



Western blot validation of overexpression lysate (Cat# [LY419293]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203155 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).





Coomassie blue staining of purified NDUFB6 protein (Cat# [TP303155]). The protein was produced from HEK293T cells transfected with NDUFB6 cDNA clone (Cat# RC203155) using MegaTran 2.0 (Cat# [TT210002]).