

Product datasheet for RC202713

NDUFS4 (NM 002495) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: NDUFS4 (NM_002495) Human Tagged ORF Clone

Tag: Myc-DDK Symbol: NDUFS4

Synonyms: AQDQ; CI-18; CI-18 kDa; CI-AQDQ; MC1DN1

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)ORF Nucleotide>RC202713 ORF sequence

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

TTTCTTGGAACAAAGAACAAGAGTATCCACAAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC202713 protein sequence

Red=Cloning site Green=Tags(s)

MAAVSMSVVLRQTLWRRRAVAVAALSVSRVPTRSLRTSSWRLAQDQTQDTQLITVDEKLDITTLTGVPEE HIKTRKVRIFVPARNNMQSGVNNTKKWKMEFDTRERWENPLMGWASTADPLSNMVLTFSTKEDAVSFAEK

NGWSYDIEERKVPKPKSKSYGANFSWNKRTRVSTK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6415 b06.zip



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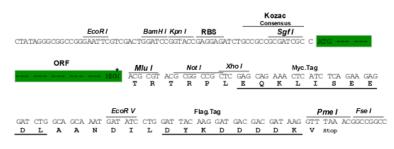
Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shuttling:





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

ACCN: NM 002495

ORF Size: 525 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 002495.4

RefSeq Size: 676 bp RefSeq ORF: 528 bp Locus ID: 4724 **UniProt ID:** O43181



Cytogenetics: 5q11.2

Domains: ETC_CI_21

Protein Families: Druggable Genome

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

Parkinson's disease

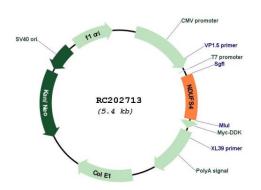
MW: 20.1 kDa

Gene Summary: This gene encodes an nuclear-encoded accessory subunit of the mitochondrial membrane

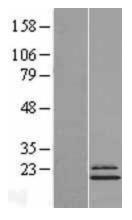
respiratory chain NADH dehydrogenase (complex I, or NADH:ubiquinone oxidoreductase). Complex I removes electrons from NADH and passes them to the electron acceptor ubiquinone. Mutations in this gene can cause mitochondrial complex I deficiencies such as Leigh syndrome. Alternative splicing results in multiple transcript variants. [provided by

RefSeq, Dec 2015]

Product images:

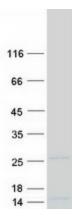


Circular map for RC202713



Western blot validation of overexpression lysate (Cat# [LY419295]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202713 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).





Coomassie blue staining of purified NDUFS4 protein (Cat# [TP302713]). The protein was produced from HEK293T cells transfected with NDUFS4 cDNA clone (Cat# RC202713) using MegaTran 2.0 (Cat# [TT210002]).