

Product datasheet for RC213937

NDUFB11 (NM 019056) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: NDUFB11 (NM_019056) Human Tagged ORF Clone

Tag: Myc-DDK Symbol: NDUFB11

Synonyms: CI-ESSS; ESSS; MC1DN30; Np15; NP17.3; P17.3

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >RC213937 representing NM_019056

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGCGGCTGGGCTGTTTGGTTTGAGCGCTCGCCGTCTTTTTGGCGGCAGCGCGAGCGCAGGGGCTCCCGGCCGCCCGGCTCCGCTGTGGCAGGGCTCCCGGCCCCGCTCCGCTGTGGCAGGAAACCGGCCCCCGTCCGCTGTGGCAGGAAACCGGCCCCCAGAACCCGAGACCCAGAACCCGAGACCCAGAACCCGAGACCCCATGGTTATGACAAGGACCCCGTTTTTGGACGTCTGGAACATGCGACTTGTCTTCTTTTTGGCGTCTCCATCATCCTGGTCCTTGGCAGCACCTTTTTGGCCTATCTTGCCTGACTACAGGTGCACAGGGTGTCCCAAGAGCGTGGGATGGAAAAGAGAGCGCGGGAAGCTGAGAGGCTTGTGAAAATACCGAGAGGCCAATGGCCTTCCCATCATCATGGAATCCAACTGCTTCGACCCCAGCAAGATCCAGCTGCCAGAGGATGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC213937 representing NM_019056

Red=Cloning site Green=Tags(s)

MAAGLFGLSARRLLAAAATRGLPAARVRWESSFSRTVVAPSAVAGKRPPEPTTPWQEDPEPEDENLYEKN PDSHGYDKDPVLDVWNMRLVFFFGVSIILVLGSTFVAYLPDYRCTGCPRAWDGMKEWSRREAERLVKYRE

ANGLPIMESNCFDPSKIQLPEDE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6492 b03.zip



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

CN: techsupport@origene.cn

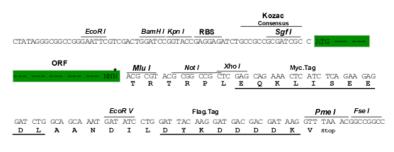
Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



Restriction Sites: Sgfl-Mlul

Cloning Scheme:





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

ACCN: NM_019056

ORF Size: 489 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: <u>NM 019056.6</u>

RefSeq Size: 953 bp RefSeq ORF: 492 bp Locus ID: 54539



Cytogenetics:

UniProt ID: Q9NX14

Protein Families: Transmembrane

Xp11.3

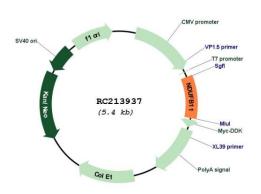
MW: 18.2 kDa

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

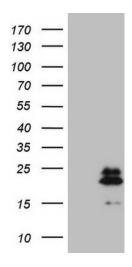
oxidoreductase (complex I). Mammalian complex I is located at the mitochondrial inner membrane. This protein has NADH dehydrogenase activity and oxidoreductase activity. It transfers electrons from NADH to ubiquinone. Mutations in the human gene are associated with linear skin defects with multiple congenital anomalies 3 and mitochondrial complex I

deficiency. [provided by RefSeq, Dec 2016]

Product images:

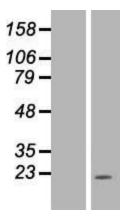


Circular map for RC213937



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY NDUFB11 (Cat# RC213937, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-NDUFB11 (1:2000) (Cat# [TA807599]). Positive lysates [LY412795] (100ug) and [LC412795] (20ug) can be purchased separately from OriGene.





Western blot validation of overexpression lysate (Cat# [LY412795]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC213937 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).