

Product datasheet for RC201574

NDUFB4 (NM_004547) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NDUFB4 (NM_004547) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NDUFB4
Synonyms:	B15; CI-B15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201574 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGTTCCCAAAGTATAAGCCGTCGAGCCTGCGCACTCTGCCTGAGACCCTCGACCCAGCCGAATACA
ACATATCTCCGAAACCCGGCGGCGAAGCCGAGCGGTTGGCCATAAGAGCCCAGCTGAAACGAGAGTA
CCTGCTTCAGTACAACGATCCCAACCGCCGAGGGCTCATCGAAAATCCTGCCTTGCTTCGTTGGGCCTAT
GCAAGAACAATAAATGTCTATCCTAATTCAGACCCACTCCTAAAACTCACTCATGGGAGCTCTGTGTG
GATTTGGGCCCTCATCTTCATTTATTATATTATCAAACTGAGAGGGATAGGAAAGAAAACTTATCCA
GGAAGGAAAATTGGATCGAACATTTACCTCTCATAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC201574 protein sequence Red=Cloning site Green=Tags(s)
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MSFPKYKPSSLRTLPE TLDP AEYNI SPETRRQAERLAIRAQLKREYLLQYNDPNRRGLIENPALLRWAY
ARTINVYPNFRPTPKNSLMGALCGFGLIFIYYIIKTERDRKEKLIQEGKLDRTFHLISY

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:	https://cdn.origene.com/chromatograms/mk6301_d06.zip
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Restriction Sites:	SgfI-MluI
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[View online »](#)

Cloning Scheme:


ACCN: NM_004547

ORF Size: 387 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_004547.6](#)

RefSeq Size: 610 bp

RefSeq ORF: 390 bp

Locus ID: 4710

UniProt ID: [O95168](#)

Cytogenetics: 3q13.33

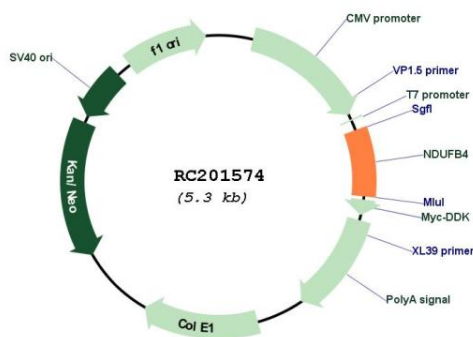
Protein Families: Transmembrane

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

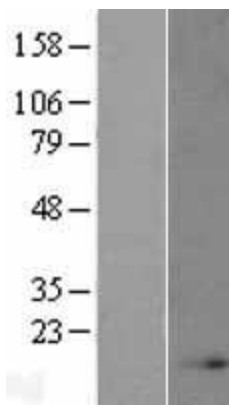
MW: 15.2 kDa

Gene Summary: This gene encodes a non-catalytic subunit of the multisubunit NADH:ubiquinone oxidoreductase, the first enzyme complex in the mitochondrial electron transport chain (complex I). Mammalian complex I is composed of 45 different subunits and transfers electrons from NADH to ubiquinone. [provided by RefSeq, Dec 2009]

Product images:



Circular map for RC201574



Western blot validation of overexpression lysate (Cat# [LY417916]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201574 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).