

Product datasheet for RC200526

NDUFB10 (NM_004548) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NDUFB10 (NM_004548) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NDUFB10
Synonyms:	PDSW
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200526 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGCCGGACAGCTGGGACAAGGATGTGTACCCTGAGCCCCGCGCCGACGCCGGTGCAGCCCAATCCCA
 TCGTCTACATGATGAAAGCGTTCGACCTCATCGTGGACCGACCCGTGACCCTCGTGAGAGAATTTATAGA
 GCGGCAGCAGCAAAGAACAGGTATTACTACTACCACCGCAGTACCGCCGCGTGCCAGACATCACTGAG
 TGCAAGGAGGAGGACATCATGTGCATGTATGAAGCCGAAATGCAGTGGAAGAGGGACTACAAAGTCGACC
 AAGAAATTATCAACATTATGCAGGATCGGCTCAAAGCCTGTGAGCAGAGGGAAGGACAGAACTACCAGCA
 GAACTGTATCAAGGAAGTGGAGCAGTTCACCCAGGTGGCCAAGGCCTACCAGGACCGCTATCAGGACCTG
 GGGGCCTACAGTTCTGCCAGGAAGTGCCTGGCCAAACAGAGGCAGAGGATGCTGCAAGAGAGAAAAGCTG
 CAAAAGAGGCCGCGCTGCCACCTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC200526 protein sequence Red=Cloning site Green=Tags(s)
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MPDSWDKDVYPEPPRRTPVQPNPIVYMMKAFDLIVDRPVTLVREFIERQHAKNRYYYHRRQYRRVPDITE
 CKEEDIMCMYEAEMQWKRDYKVDQEIINIMQDRLKACQQREGQNYQQNCIKEVEQFTQVAKAYQDRYQDL
 GAYSSARKCLAKQRQRLQERKAAKEAAAATS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:	https://cdn.origene.com/chromatograms/mk6381_f06.zip
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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004548

ORF Size: 516 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

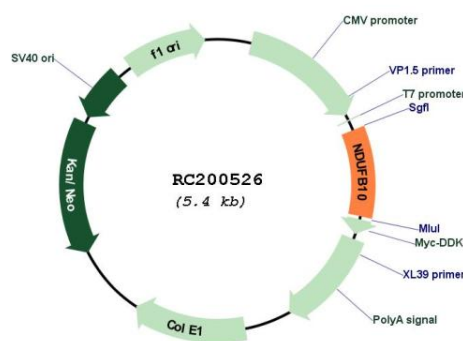
RefSeq: [NM_004548.3](#)

RefSeq Size: 741 bp

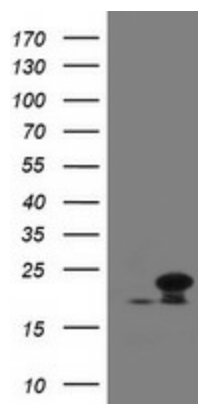
RefSeq ORF: 519 bp

Locus ID:	4716
UniProt ID:	<u>O96000</u>
Cytogenetics:	16p13.3
Protein Pathways:	Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease
MW:	20.8 kDa
Gene Summary:	Accessory subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I), that is believed not to be involved in catalysis. Complex I functions in the transfer of electrons from NADH to the respiratory chain. The immediate electron acceptor for the enzyme is believed to be ubiquinone.[UniProtKB/Swiss-Prot Function]

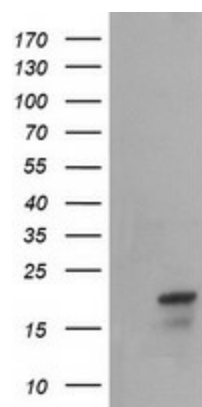
Product images:



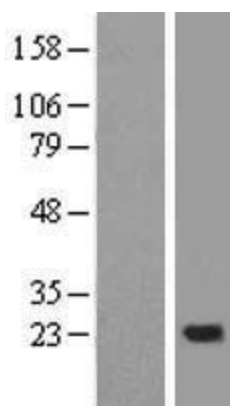
Circular map for RC200526



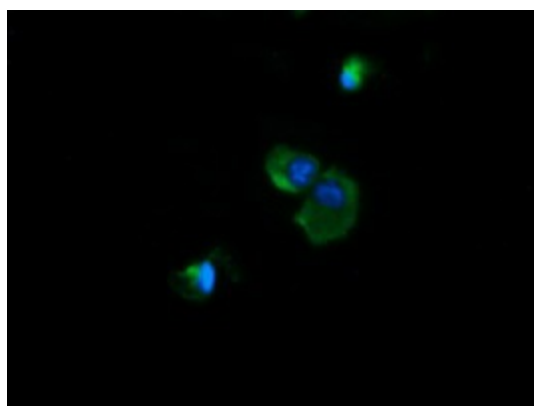
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY NDUFB10 (Cat# RC200526, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-NDUFB10 (Cat# [TA505113]). Positive lysates [LY417917] (100ug) and [LC417917] (20ug) can be purchased separately from OriGene.



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY NDUFB10 (RC200526, 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-NDUFB10 ([TA505207]). Positive lysates [LY417917] (100ug) and [LC417917] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY417917]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200526 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Anti-NDUFB10 mouse monoclonal antibody ([TA505207]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY NDUFB10 (RC200526).