

## 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  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC200526 ORF sequence  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCGGACAGCTGGGACAAGGATGTGTACCCTGAGCCCCGCGCCGACGCCGGTGCAGCCCAATCCCA  
TCGTCTACATGATGAAAGCGTTCGACCTCATCGTGGACCGACCCGTGACCCTCGTGAAGAGATTTATAGA  
GCGGCAGCAGCAAAGAAGCAGGTATTACTACTACCACCGCAGTACCGCCGCGTGCAGACATCACTGAG  
TGCAAGGAGGAGGACATCATGTGCATGTATGAAGCCGAAATGCAGTGGAAGAGGGACTACAAAGTCGACC  
AAGAAATTATCAACATTATGCAGGATCGGCTCAAAGCCTGTCAGCAGAGGGAAGGACAGAACTACCAGCA  
GAACTGTATCAAGGAAGTGGAGCAGTTCACCCAGGTGGCCAAGGCCTACCAGGACCGCTATCAGGACCTG  
GGGGCCTACAGTTCTGCCAGGAAGTGCCTGGCCAAACAGAGGCAGAGGATGCTGCAAGAGAGAAAAGCTG  
CAAAGAGGCCCGCTGCCACCTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

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

MPDSWDKDVYPEPPRTPVQPNPIVYMMKAFDLIVDRPVTLVREFIERQHAKNRYYYHRQYRRVPDITE  
CKEEDIMCMYEAEMQWKRDYKVDQEIIINIMQDRLKACQQREGQNYQQNCIKEVEQFTQVAKAYQDRYQDL  
GAYSSARKCLAKQRQMLQERKAAKEAAAATS

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6381\\_f06.zip](https://cdn.origene.com/chromatograms/mk6381_f06.zip)

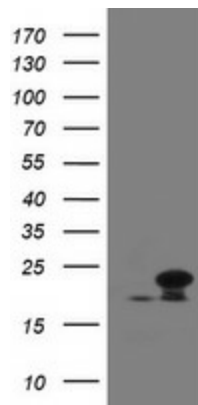


[View online >](#)

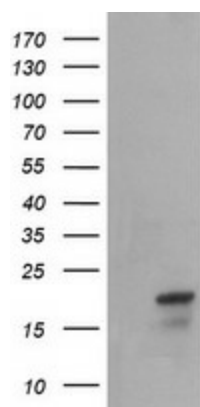


<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_004548.3</u>
<b>RefSeq Size:</b>	741 bp
<b>RefSeq ORF:</b>	519 bp
<b>Locus ID:</b>	4716
<b>UniProt ID:</b>	<u>O96000</u>
<b>Cytogenetics:</b>	16p13.3
<b>Protein Pathways:</b>	Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease
<b>MW:</b>	20.8 kDa
<b>Gene Summary:</b>	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]

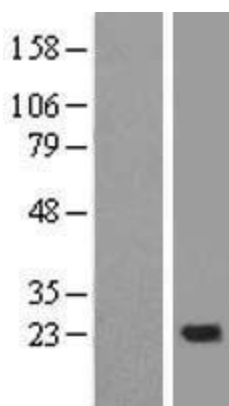
### Product images:



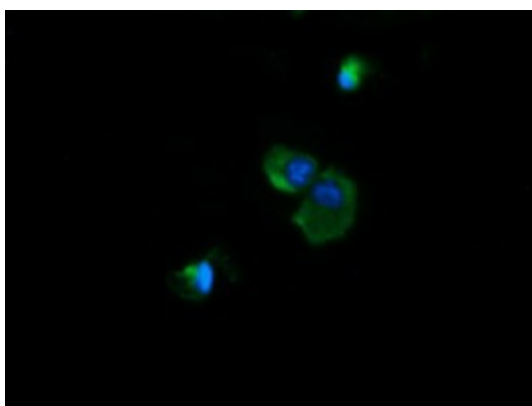
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY NDUFB10 (Cat# RC200526, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-NDUFB10(Cat# [TA505113]). Positive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