

## Product datasheet for **RG200526**

### NDUFB10 (NM\_004548) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** NDUFB10 (NM\_004548) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** NDUFB10  
**Synonyms:** PDSW  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG200526 representing NM\_004548  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCCGGACAGCTGGGACAAGGATGTGTACCCTGAGCCCCGCGCCGCACGCCGGTGCAGCCCAATCCCA  
 TCGTCTACATGATGAAAGCGTTCGACCTCATCGTGGACCGACCCGTGACCCTCGTGAAGAAATTTATAGA  
 GCGGCAGCAGCAAAGAACAGGTATTACTACTACCACCGCAGTACCGCCGCGTCCAGACATCACTGAG  
 TGCAAGGAGGAGGACATCATGTGCATGTATGAAGCCGAAATGCAGTGAAGAGGGACTACAAAGTCGACC  
 AAGAAATTATCAACATTATGCAGGATCGGCTCAAAGCCTGTCAGCAGAGGGAAGGACAGAACTACCAGCA  
 GAACTGTATCAAGGAAGTGGAGCAGTTCACCCAGGTGGCCAAGGCCTACCAGGACCGCTATCAGGACCTG  
 GGGCCTACAGTTCTGCCAGGAAGTGCCTGGCCAAACAGAGGCAGAGGATGCTGCAAGAGAGAAAAGCTG  
 CAAAAGAGGCCCGCGCTGCCACCTCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG200526 representing NM\_004548  
 Red=Cloning site Green=Tags(s)

MPDSWDKDVYPEPPRRTPVQPNPIVYMMKAFDLIVDRPVTLVREFIERQHAKNRYYYHRQYRRVPDITE  
 CK EEDIMCMYEAEMQWKRDYKVDQEIIINIMQDRLKACQQREGQNYQQNCIKEVEQFTQVAKAYQDRYQDL  
 GAYSSARKCLAKQRMLQERKAAKEAAAATS

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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**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.

**RefSeq:** [NM\\_004548.3](#)

**RefSeq Size:** 736 bp

**RefSeq ORF:** 519 bp

**Locus ID:** 4716

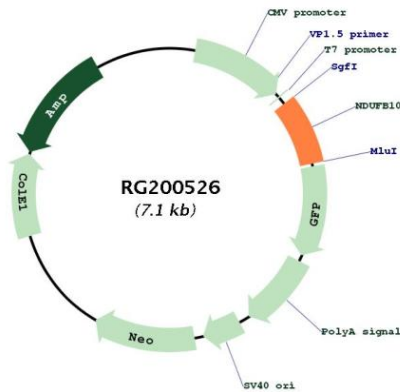
**UniProt ID:** [O96000](#)

**Cytogenetics:** 16p13.3

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

**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 RG200526