

## Product datasheet for **RC200784**

### NDUFB7 (NM\_004146) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** NDUFB7 (NM\_004146) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** NDUFB7  
**Synonyms:** B18; CI-B18  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC200784 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGGCGCACCTGGTCCGGCGCTACCTGGGCGATGCCTCGGTGGAGCCCGACCCCTGCAGATGCCAA  
CCTTCCC GCCAGACTACGGCTTCCCGAACGCAAGGAGCGGAGATGGTGGCCACACAGCAGGAGATGAT  
GGACGCGCAGCTGAGGCTCCAGCTGCGGGACTACTGCGCCACCACCTCATCCGGCTGCTCAAGTGAAG  
CGTGACAGCTTCCCAACTTCTGGCCTGCAAGCAGGAGCGGCACGACTGGGACTACTGCGAGCACCGCG  
ACTATGTGATGCGCATGAAGGAGTTT GAGCGGGAGCGGAGGCTGCTCCAGCGGAAGAAGCGCGGGAGAA  
GAAGGCGGCAGAGTTGGCCAAAGGCCAGGGACCCGGGGAAGTGGACCCCAAGGTGGCCCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC200784 protein sequence  
Red=Cloning site Green=Tags(s)  
MGAHLVRRYLGDASVEPDPLQMPTFPDYGFPERKEREMVATQQEMMDAQLRLQLRDYCAHHLIRLLKCK  
RDSFPNFLACKQERHDWDYCEHRDYVMRMKEFERERLLQRKKRREKAAELAKQGQGPGEVDPKVAL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6386\\_f05.zip](https://cdn.origene.com/chromatograms/mk6386_f05.zip)

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_004146

**ORF Size:** 411 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\\_004146.3](#)

**RefSeq Size:** 573 bp

**RefSeq ORF:** 414 bp

**Locus ID:** 4713

**UniProt ID:** [P17568](#)

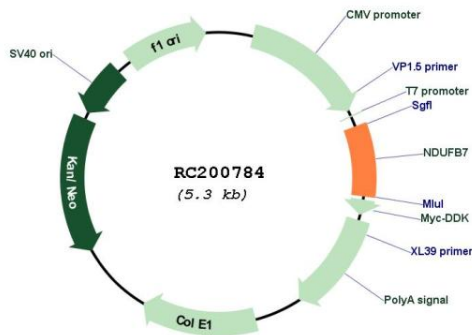
**Cytogenetics:** 19p13.12

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

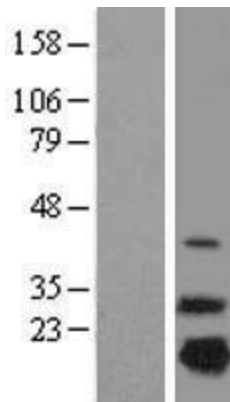
**MW:** 16.4 kDa

**Gene Summary:** The protein encoded by this gene is a subunit of the multisubunit NADH:ubiquinone oxidoreductase (complex I). Mammalian complex I is composed of 45 different subunits. It is located at the mitochondrial inner membrane. This protein has NADH dehydrogenase activity and oxidoreductase activity. It transfers electrons from NADH to the respiratory chain. The immediate electron acceptor for the enzyme is believed to be ubiquinone. [provided by RefSeq, Jul 2008]

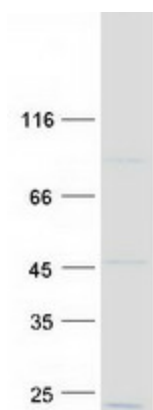
**Product images:**



Circular map for RC200784



Western blot validation of overexpression lysate (Cat# [LY418189]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200784 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NDUFB7 protein (Cat# [TP300784]). The protein was produced from HEK293T cells transfected with NDUFB7 cDNA clone (Cat# RC200784) using MegaTran 2.0 (Cat# [TT210002]).