

## Product datasheet for RC200534

### NDUFA7 (NM\_005001) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** NDUFA7 (NM\_005001) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** NDUFA7  
**Synonyms:** B14.5a; CI-B14.5a  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC200534 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGCGTCCGCCACCCGCTCATCCAGCGGCTGCGGAAGTGGCGTCCGGGCATGACCTGCAGGGGAAGC  
TGCAGCTACGCTACCAGGAGATCTCCAAGCGAAGTCAAGCTCCTCCCAAGCTCCCTGTGGTCTTAGCCA  
CAAGCTCTCCAACAATTACTATTGCACTCGCGATGGCCGCGGGAATCTGTGCCCTTCCATCATCATG  
TCGTGCGAGAAGGCGCTGGTGTCAAGCAAGCCAGCAGAGAGCTCTGCTGTAGCTGCCACTGAGAAGAAGG  
CGGTGACTCCAGCTCTCCATAAAGAGGTGGGAGCTGTCTCGGACCAGCCTTACCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC200534 protein sequence  
Red=Cloning site Green=Tags(s)

MASATRLIQRLRNWASGHDLQGKLQLRYQEISKRTQPPPKLPVGPESHKLSNNYYCTRDGRRESVPPSIIM  
SSQKALVSGKPAESSAVAATEKKAVTPAPPIKRWELSSDQPYL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6393\\_d03.zip](https://cdn.origene.com/chromatograms/mk6393_d03.zip)

**Restriction Sites:** Sgfl-MluI

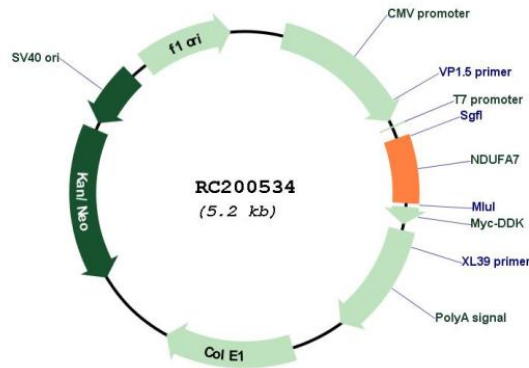


[View online »](#)

Cloning Scheme:



Plasmid Map:

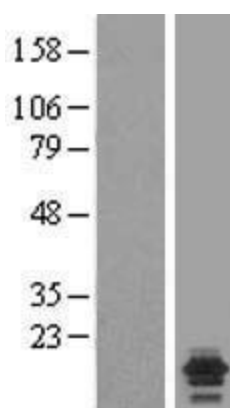


ACCN: NM\_005001

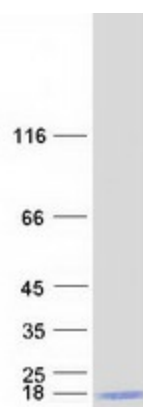
ORF Size: 339 bp

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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>RefSeq:</b>	<u>NM_005001.5</u>
<b>RefSeq Size:</b>	585 bp
<b>RefSeq ORF:</b>	342 bp
<b>Locus ID:</b>	4701
<b>Protein Pathways:</b>	Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease
<b>MW:</b>	12.6 kDa
<b>Gene Summary:</b>	This gene encodes a subunit of NADH:ubiquinone oxidoreductase (complex I), which is a multiprotein complex located in the inner mitochondrial membrane. Complex I functions in the transfer of electrons from NADH to the respiratory chain. [provided by RefSeq, Mar 2011]

**Product images:**


Western blot validation of overexpression lysate (Cat# [LY417603]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200534 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NDUFA7 protein (Cat# [TP300534]). The protein was produced from HEK293T cells transfected with NDUFA7 cDNA clone (Cat# RC200534) using MegaTran 2.0 (Cat# [TT210002]).