

## Product datasheet for **RC200653**

### NDUFV2 (NM\_021074) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NDUFV2 (NM_021074) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NDUFV2
Synonyms:	CI-24k; MC1DN7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200653 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTCTTCTCCGCGGCTCCGGGCCGGCGGCTGGCCTCACCGCCACTGGGAAGACATGTAAGGA  
ATTTGCATAAGACAGTTATGCAAATGGAGCTGGAGGAGCTTTATTTGTGCACAGAGATACTCCTGAGAA  
TAACCTGATACTCCATTTGATTTACACCAGAAAATAAGAGGATAGAGGCAATTGTAAGAACTAT  
CCAGAAGCCATAAAGCAGCAGCTGTTCTCCAGTCTGGATTTAGCCAAAGGCAGAATGGGTGGTTGC  
CCATCTCTGCTATGAACAAGTTGCAGAAGTTTACAAGTACCTCAATGAGAGTATATGAAGTAGCAAC  
TTTTTATACAATGTATAATCGAAAGCCAGTTGGAAAGTATCACATTCAGGTCTGCTACTACACCTGC  
ATGCTTCGAAACTCTGACAGCATACTGGAGGCCATTAGAAAAAGCTTGAATAAAGTTGGGGAGACTA  
CACCTGACAACTTTTCACTCTTATAGAAGTGAATGTTTAGGGGCTGTGTGAACGCACCAATGTTTCA  
AATAAATGACAATTACTATGAGGATTTGACAGCTAAGGATATTGAAGAAATTATTGATGAGCTCAAGGCT  
GGCAAAATCCAAAACCAGGGCCAAGGAGTGGACGCTTCTTGTGAGCCAGCTGGAGGTCTTACCTCTT  
TGACTGAACCACCAAGGACCTGGATTTGGTGTACAAGCAGGCCTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

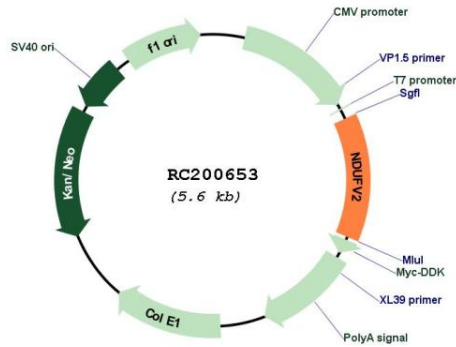


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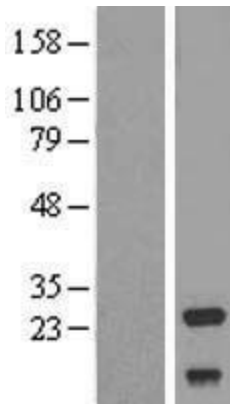


<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and 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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_021074.5</a>
<b>RefSeq Size:</b>	937 bp
<b>RefSeq ORF:</b>	750 bp
<b>Locus ID:</b>	4729
<b>UniProt ID:</b>	<a href="#">P19404</a>
<b>Cytogenetics:</b>	18p11.22
<b>Domains:</b>	complex1_24kD
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease
<b>MW:</b>	27.4 kDa
<b>Gene Summary:</b>	The NADH-ubiquinone oxidoreductase complex (complex I) of the mitochondrial respiratory chain catalyzes the transfer of electrons from NADH to ubiquinone, and consists of at least 43 subunits. The complex is located in the inner mitochondrial membrane. This gene encodes the 24 kDa subunit of complex I, and is involved in electron transfer. Mutations in this gene are implicated in Parkinson's disease, bipolar disorder, schizophrenia, and have been found in one case of early onset hypertrophic cardiomyopathy and encephalopathy. A non-transcribed pseudogene of this locus is found on chromosome 19. [provided by RefSeq, Oct 2009]

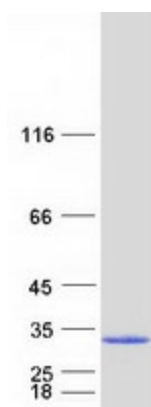
Product images:



Circular map for RC200653



Western blot validation of overexpression lysate (Cat# [LY412099]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200653 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NDUFV2 protein (Cat# [TP300653]). The protein was produced from HEK293T cells transfected with NDUFV2 cDNA clone (Cat# RC200653) using MegaTran 2.0 (Cat# [TT210002]).