

Product datasheet for **RC221209**

NDUFA6 (NM_002490) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NDUFA6 (NM_002490) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: NDUFA6
Synonyms: B14; CI-B14; LYRM6; MC1DN33; NADHB14
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC221209 representing NM_002490
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGGAAAAGACATTCGCCCGGGTCCGCACGCGCTGCTGCAAAGGGTGGGGTTGTGGAGTGGATGCT
TTGGCAAGATGGCGGGGAGCGCGTCCGCCAAGCTACTTCTACCGCCAGCACCTTCGTGAAGCCATTTT
CAGTCGGGACATGAACGAGGCCAAGCGGAGGGTGCAGCTCTACCGCGCTGGTATCGGGAGGTGCCG
AACACTGTGCACCAATTCAGCTGGACATCACTGTGAAAATGGGACGGGATAAAGTCCGAGAAATGTTTA
TGAAGAATGCCCATGTACAGACCCAGGGTGGTTGATCTTCTGGTCATTAAGGGAAAGATCGAACTGGA
AGAAACAATTAAGTATGGAAGCAGCGGACACATGTTATGCGGTTCTTCCATGAAACAGAAGCGCCAAGG
CCAAAGGATTTCTATCCAAGTTCTATGTTGGCCACGATCCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC221209 representing NM_002490
Red=Cloning site Green=Tags(s)
MGKDIRPRSARAACKGVGLWSGCFGKMAGSGVRQATSTASTFVKPIFSRDMNEAKRRVRELYRAWYREVP
NTVHQFLDITVKMGRDKVREMFMKNAHVTDPRVVDLLVIKGIIEEETIKVWKQRTHVMRFFHETEAPR
PKDFLSKFVYGHDP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1452_a06.zip



[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002490

ORF Size: 462 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_002490.4](#)

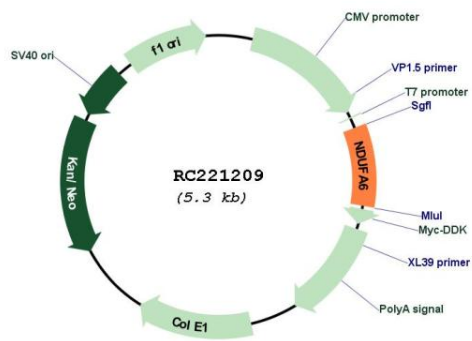
RefSeq Size: 1202 bp

RefSeq ORF: 387 bp

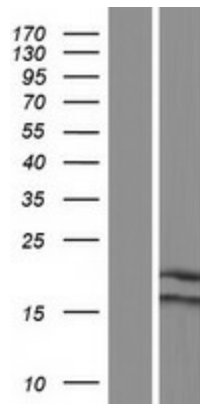
Locus ID: 4700

UniProt ID: [P56556](#)
Cytogenetics: 22q13.2
Protein Pathways: Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease
MW: 17.7 kDa
Gene Summary: This gene encodes a member of the LYR family of proteins that contain a highly conserved tripeptide (LYR) motif near the N-terminus. The encoded protein is an accessory subunit of NADH: ubiquinone oxidoreductase (Complex I), which is the largest enzyme of the mitochondrial membrane respiratory chain. Complex I functions in electron transfer from NADH to the respiratory chain. [provided by RefSeq, Oct 2016]

Product images:



Circular map for RC221209



Western blot validation of overexpression lysate (Cat# [LY419290]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221209 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).