

Product datasheet for **RC202915**

NDUFV3 (NM_021075) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NDUFV3 (NM_021075) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NDUFV3
Synonyms:	CI-9KD; CI-10k
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC202915 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTGCCCCGTGTTTGTCTGCGCAAGGACGAGCCGGGCGCTGAAGACTATGCTCCAGGAAGCCAGG
 TGTTTCGAGGACTTGCTTCTACGGTTTCTTTGTCTGCGGAATCAGGGAAGAGTGAAAAGGGTCAGCCACA
 GAATTCCAAGAAGCAAAGTCCACCAAAAAATGTAGTGAAACCAAAGGAGAGGGGCAAGCTCCTAGCCACC
 CAGACAGCAGCTGAATTGTCTAAAACTTATCTTCACCCAGTTCTTACCCGCCAGCTGTGAATAAGGGCA
 GGAAGGTAGTAGTCCCAGTCCCAGTGGCAGCGTGCTATTACAGATGAAGGGTTCCGAAATTTTGTGTC
 AAGAAAGACTTTGGTAGAGTTTCCACAGAAAGTTCTGTCTCCATTAGAAAACAGGGCTCTGATTCAGAA
 GCTCGTCAGGTGGTTCGAAAGTGACGTCGCCTTCGTCTTCATCCTCGTCCAGCTCCTCTGATTCTGAAT
 CTGATGATGAGGCTGACGTTTCAGAGGTCCTCCTCGAGTGGTGAGCAAAGGCAGAGGGGGCTTCGAAA
 ACCAGAGGCTCTCATTCTTTGAAAACAGAGCCCCCGAGTTACAGTATCAGCAAAAGAGAAAACCTTG
 CTGCAGAAAGCCGATGTGGACATTAAGTATCCAGAGAAGCCCCACCAGCCAAAGAAGAAAGGGTCCCTG
 CTAAGCCATCAGAAGGCAGGGAATGCGAGACCAAAACCAATGCCAGATCTCAAGTAGATGAAGA
 GTTTTTGAAGCAAAGTTTAAAGGAAAAACAATTGCAGAAAACATTTAGATTAATGAAATAGATAAAGAA
 AGCCAAAAGCCATTTGAAGTTAAAGGACCTTACCTGTCCACACAAAAATCAGGGTTGTCTGCGCCACCGA
 AGGGCAGCCAGCGCCTGCTGTGTTGGCAGAAGAGGCCAGAGCAGAGGGGCGAGCTGCAAGCCAGTCTCC
 TGGGGCGCAGAGGGGCTCTGGAAAAACCCGTGCCAGAGCCCCAGCGCAAGGCGGCCCTCCCTGCC
 AGAAAGGAAACCTCAGGGACGCAGGGAATAGAAGGCCACCTGAAGGTGGACAGGCAATCGTGGAAGATC
 AGATACCACCAAGCAATTTGGAGACAGTTCCTGTTGAGAATAACCACGGTTTCCATGAAAAGACAGCAGC
 GCTGAAGCTTGAGGCCGAGGGCGAGGCCATGGAAGATGCAGCCGCGCCAGGGAACGACCGAGGCGGCACA
 CAGGAGCCAGCCAGTGCCTGTGAGCCGTTTGAACAACACTACCTACAAGAACCTGCAGCATCATGACT
 ACAGCACGTACACCTTCTTAGACCTCAACCTCGAACTCTCAAATTCAGGATGCCTCAGCCCTCCTCAGG
 CCGGGAGTCACCTCGACAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC202915 protein sequence
 Red=Cloning site Green=Tags(s)

MAAPCLLRQGRAGALKTMLQEAQVFRGLASTVLSAESGKSEKQPQNSKKQSPPKNVVEPKERKLLAT
 QTAAELSKNLSPPSSYPYPAVNKGRKVASPSGSLVFTDEGVPKFLSRKTLVEFPQKVLSPFRKQGSSE
 ARQVGRKVTSPSSSSSSSSDSEADVSEVTPRVVSKGRGLRKPEASHSFENRAPRVTVSAKEKTL
 LQKPHVDITDPEKPHQPKKKGSPAKPSEGRENARPKTTMPRSQVDEEFLKQSLKEKQLQKTFRLNEIDKE
 SQKPFVKGPLPVHTKSGLSAPPKGSPPAVLAEEARAEGQLQASPPGAAEGHLEKPVPEPQRKAAPPLP
 RKETSGTQIEGHLKGGQAIVEDQIPPSNLETVPVENNHGFHEKTAALKLEAEGEAMEDAAAPGNDRGGT
 QEPAPVPAEPFDNTTYKNLQHHDYSTYTFLDLNLLELSKFRMPQPSSGRESRPH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6575_a01.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_021075

ORF Size: 1419 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_021075.3](#), [NP_066553.3](#)

RefSeq Size: 2151 bp

RefSeq ORF: 1422 bp

Locus ID: 4731

UniProt ID: [P56181](#)

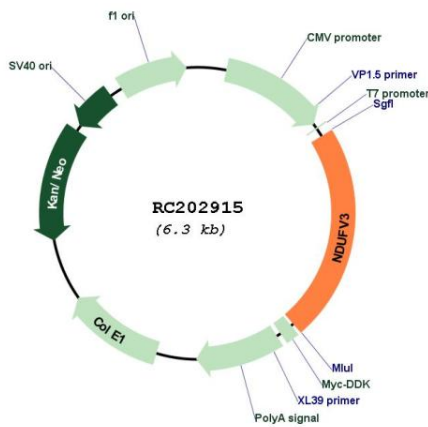
Cytogenetics: 21q22.3

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

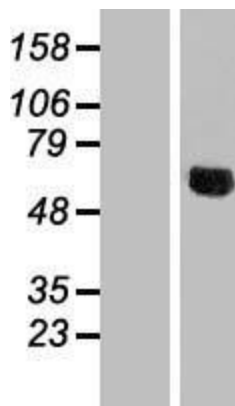
MW: 51 kDa

Gene Summary: The protein encoded by this gene is one of at least forty-one subunits that make up the NADH-ubiquinone oxidoreductase complex. This complex is part of the mitochondrial respiratory chain and serves to catalyze the rotenone-sensitive oxidation of NADH and the reduction of ubiquinone. The encoded protein is one of three proteins found in the flavoprotein fraction of the complex. The specific function of the encoded protein is unknown. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

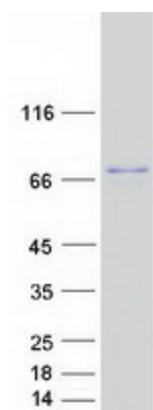
Product images:



Circular map for RC202915



Western blot validation of overexpression lysate (Cat# [LY412100]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202915 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NDUFV3 protein (Cat# [TP302915]). The protein was produced from HEK293T cells transfected with NDUFV3 cDNA clone (Cat# RC202915) using MegaTran 2.0 (Cat# [TT210002]).