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Product datasheet for RC200325

NDUFC2 (NM_004549) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NDUFC2 (NM_004549) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NDUFC2
Synonyms:	B14.5b; CI-B14.5b; HLC-1; NADHDH2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC200325 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATCGCACGGCGGAACCCAGAACCCTTACGGTTTCTGCCGGATGAGGCCCGGAGCCTGCCCCCGCCCA
AGCTGACCGACCCGCGGCTCCTCTACATCGGCTTCTTGGGCTACTGCTCCGGCCTGATTGATAACCTGAT
CCGGCGGAGGCCGATCGCGACGGCTGGTTTGCATCGCCAGCTTCTATATATTACGGCCTTTTTTTTTGCT
GGATATTATCTTGTAAAACGTGAAGACTACCTGTATGCTGTGAGGGACCGTGAAATGTTTGGATATATGA
AATTACATCCAGAGGATTTTCCTGAAGAAGATAAGAAAACATATGGTGAAATTTTTGAAAAATTCCATCC
AATACGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC200325 protein sequence
Red=Cloning site Green=Tags(s)

MIARRNPEPLRFLPDEARSLPPPKLTDPRLLYIGFLGYCSGLIDNLIRRRPIATAGLHRQLLYITAFFFA
GYYLVKREDYLYAVRDREMFGYMKLHPEDFPEEDKKTYGEIFEKFHPIR

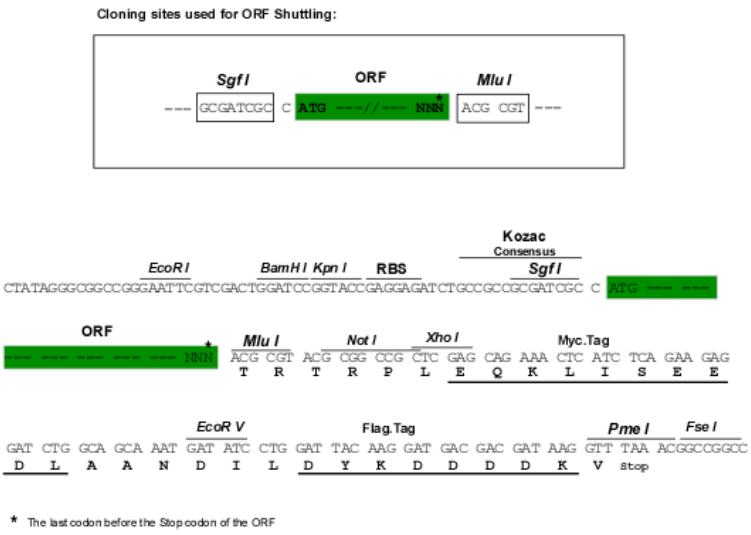
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6381_a06.zip

Restriction Sites: SgfI-MluI

View online »

Cloning Scheme:



ACCN: NM_004549

ORF Size: 357 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_004549.3, NP_004540.1

RefSeq Size: 2491 bp

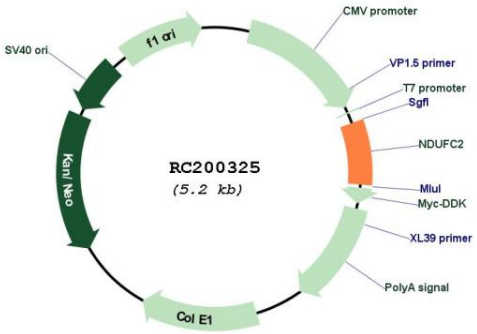
RefSeq ORF: 360 bp

Locus ID: 4718

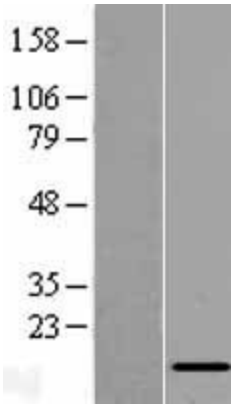
UniProt ID: O95298

Cytogenetics:	11q14.1
Protein Families:	Transmembrane
Protein Pathways:	Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease
MW:	14.2 kDa
Gene Summary:	Accessory subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I), that is believed not to be involved in catalysis. Complex I functions in the transfer of electrons from NADH to the respiratory chain. The immediate electron acceptor for the enzyme is believed to be ubiquinone.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC200325



Western blot validation of overexpression lysate (Cat# [LY417918]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200325 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).