

Product datasheet for RC229553

NDUFB4 (NM_001168331) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NDUFB4 (NM_001168331) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: NDUFB4
Synonyms: B15; CI-B15
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC229553 representing NM_001168331
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTCGTTCCCAAAGTATAAGCCGTCGAGCCTGCGCACTCTGCCTGAGACCTCGACCCAGCCGAATACA
ACATATCTCCGAAACCCGGCGGGCGCAAGCCGAGCGGTTGGCCATAAGAGCCCAGCTGAAACGAGAGTA
CCTGCTTCAGTACAACGATCCCAACCGCCGAGGGCTCATCGAAAATCCTGCCTTGCTTGGGCTAT
GCAAGAACAATAAATGTCTATCCTAATTTAGACCCACTCCTAAAACTCACTCATGGGAGCTCTGTGTG
GATTTGGGCCCTCATCTTCATTATTATTATCAAACCTGAGAGGGTAAGTATTCAGACCAGATGTTT
AGTATTTGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC229553 representing NM_001168331
Red=Cloning site Green=Tags(s)

MSFPKYKPSSLRTPETLDPAEYNI SPETRRQAERLAIRAQLKREYLLQYNDPNRRGLIENPALLRWAY
ARTINVYPNFRPTPKNSLMGALCGFGPLIFIYYIIKTERVSIQTRCLVFE

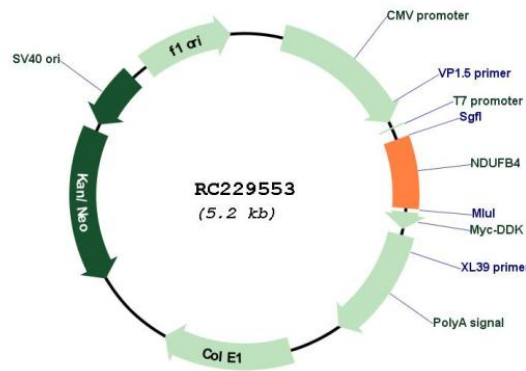
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Plasmid Map:

ACCN:

NM_001168331

ORF Size:

360 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:	<ol style="list-style-type: none">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_001168331.2
RefSeq ORF:	363 bp
Locus ID:	4710
UniProt ID:	O95168
Cytogenetics:	3q13.33
Protein Families:	Transmembrane
Protein Pathways:	Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease
MW:	14.5 kDa
Gene Summary:	This gene encodes a non-catalytic subunit of the multisubunit NADH:ubiquinone oxidoreductase, the first enzyme complex in the mitochondrial electron transport chain (complex I). Mammalian complex I is composed of 45 different subunits and transfers electrons from NADH to ubiquinone. [provided by RefSeq, Dec 2009]