

Product datasheet for **RR211640**

Ndufa5 (NM_012985) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ndufa5 (NM_012985) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ndufa5
Synonyms: NADHUO
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR211640 representing NM_012985
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGGGCTTGGTGAAGAAGACTACTGGCCTGGTGGGATTGGCCGTTTGCGACTCCACACGAGAGGC
TAACAATATTGTATACAAAGATTCTTGATCTTCTGAAGCACTTTCCTAAACATGCAGCCTACAGAAAAGTA
CACAGAACAGATCACCAGTGAGAAGCTGGAGTTGGTCAAATTGGAACCAGATGTTAAAAAATTAGAAAAC
TTGCTTCAGGGTGGTGAAGTAGAAGAGGTGATTCTTCAGGCTGAAAAAGAACTAAGTCTGGCAAGAAAAA
TGTTGCAGTGGAAGCCCTGGGAGCCACTGGTGGAGGAGCCCCCTGCTAACCAAGTGAAGTGGCCAATA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR211640 representing NM_012985
Red=Cloning site Green=Tags(s)

MAGLVKKTGLVGLAVCDTPHERLTILYTKILDLLKHFPKHAAYRKYTEQITSEKLELVKLEPDVKKLEN
LLQGGEVEEVILQAEKELSLARKMLQWKPEPLVEPPANQWKWPI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

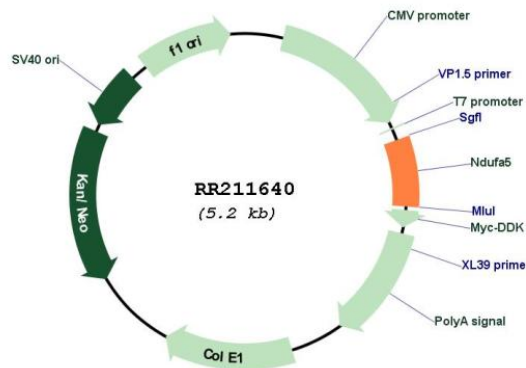


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Cloning Scheme:



Plasmid Map:



ACCN: NM_012985

ORF Size: 348 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:	<u>NM_012985.2</u> , <u>NP_037117.1</u>
RefSeq Size:	552 bp
RefSeq ORF:	351 bp
Locus ID:	25488
UniProt ID:	<u>Q63362</u>
Cytogenetics:	4q22
MW:	13.4 kDa
Gene Summary:	human homolog is a subunit of complex I of the respiratory chain which transfers electrons from NADH to ubiquinone [RGD, Feb 2006]