

Product datasheet for **RR200350**

Ndufaf3 (NM_001033971) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ndufaf3 (NM_001033971) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ndufaf3
Synonyms: RGD708545
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR200350 representing NM_001033971
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGGCCACTGCTCTAGGATTCGCTGCCTTTACCGAACGCGACCTGCGACGCTCGGTCCGAGGAGCCCGA
 GTCGGGGGACCGGCTTTCTCCGGCTGACGATGAGTTATACCAGCGGACGGTATCTCTTTGCTGCAAAA
 CGAGTTCCTCAGGCCGTATACATCGACAGCTACAATAGCAGAGGTTTACTATCAACGAAACCGCGTG
 TTTGGACCTTGTGCGCTGCTCCACAGACCGTGGTCCAGTGGAACGTGGGATCTCATCAGGATATCACTG
 AAGAGAGCTTCTCGATTTCTGGATGCTGGAACCTAGGATAGAGATTGTTGTGGTGGGCACCGGAAACAA
 GACTGAGCGGCTGCACTCTCAAGTCTGCAGGCCATGAGGCAGCGGGGAATTGCGGTGGAGATACAGGAC
 ACGCCTAACGCCTGTGCCACCTCAACTTCTGTGCCACGAAGGTCGAGTGACAGGAGCTGCCCTCATCC
 CCCACCTGGAGAGACTGCACTTGCTCTTCTGGTCAAACCACAGAG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR200350 representing NM_001033971
 Red=Cloning site Green=Tags(s)

MATALGFRCLYRTRPATLGRSPSRGHRLSPADDELYQRTRISLLQNEFPQAVYIDSYNRSGFTINGNRV
 FGPCALLPQTVVQWNVGSHQDI TEESFSIFWMLEPRIIEIVVVG TGNKTERLHSQVLQAMRQRGIAVEIQD
 TPNACATFNFLCHEGRVTGAALIPPPGETALASSGQTTE

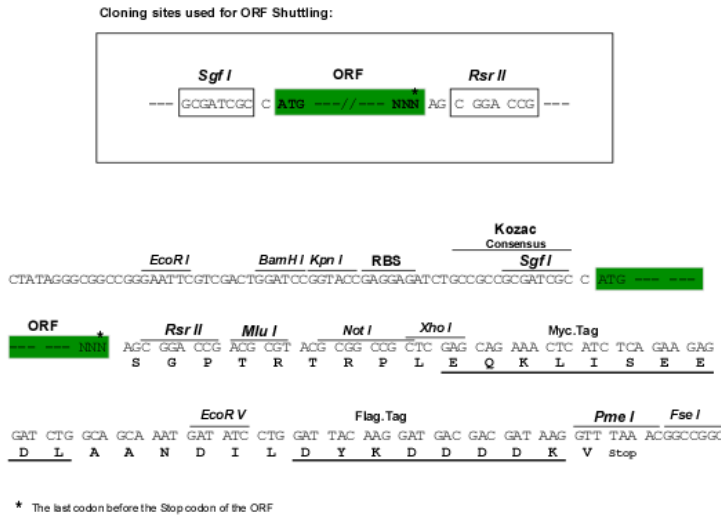
SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

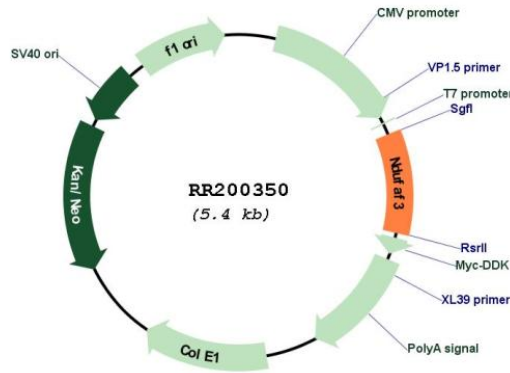


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001033971

ORF Size: 537 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_001033971.2</u> , <u>NP_001029143.1</u>
RefSeq Size:	1447 bp
RefSeq ORF:	540 bp
Locus ID:	56769
UniProt ID:	<u>O08776</u>
Cytogenetics:	8q32
MW:	19.9 kDa
Gene Summary:	This gene encodes a protein that is required for assembly of mitochondrial NADH: ubiquinone oxidoreductase complex I, a multiprotein enzyme complex that is part of the oxidative phosphorylation pathway. In humans, mutations in this gene are associated with fatal neonatal mitochondrial disease and lactic acidosis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2015]