

Product datasheet for **RR200351**

Ndufaf3 (NM_020080) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ndufaf3 (NM_020080) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ndufaf3
Synonyms: RGD708545
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RR200351 representing NM_020080
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCACTGCTCTAGGATTTGCTGCCTTTACCGAACCGACCTGCGACGCTCGGTCCGTACGTCGATA
 GGCTGTGGAGGAGCCCGAGTCGGGGCACCGCTTTCTCCGGCTGACGATGAGTTATACCAGCGGACGCG
 TATCTCTTTGCTGCAAACGAGTTCCCTCAGGCCGTATACATCGACAGCTACAATAGCAGAGGTTTCACT
 ATCAACGGAAACCGCGTGTGGACCTTGTGCGCTGCTCCACAGACCGTGGTCCAGTGGAACTGGGAT
 CTCATCAGGATATCACTGAAGAGAGCTTCTCGATTTTCTGGATGCTGGAACCTAGGATAGAGATTGTTGT
 GGTGGCACCGGAAACAAGACTGAGCGGCTGCACTCTCAAGTCTGCAGGCCATGAGGCAGCGGGGAATT
 GCGGTGGAGATACAGGACACGCCTAACGCCTGTGCCACCTTCACTTCTGTGCCACGAAGGTCGAGTGA
 CAGGAGCTGCCCTCATCCCCACCTGGAGAGACTGCATTGCCTCTTCTGGTCAAACCACAGAG

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

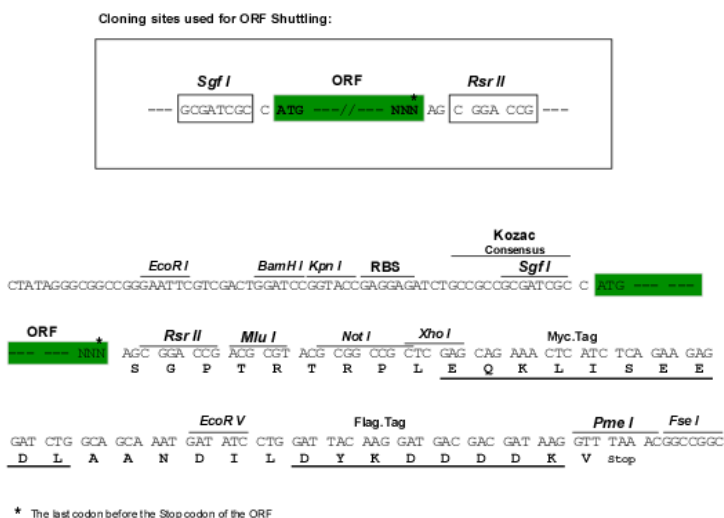
Protein Sequence: >RR200351 representing NM_020080
 Red=Cloning site Green=Tags(s)

MATALGFRCLYRTRPATLGRYVDRLWSPSRGHRLLSPADDELYQRTRISLLQNEFPQAVYIDSYNRGT
 INGNRVFGPCALLPQTVVQWNVGSHQDITEESFSIFWMLEPRIEIVVVGTKNKTERLHSQLVQAMRQRGI
 AVEIQDTPNACATFNFLCHEGRVTGAALIPPPGETALASSGQTTE

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-RsrII



Cloning Scheme:


ACCN: NM_020080

ORF Size: 555 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_020080.3](#), [NP_064465.1](#)

RefSeq Size: 1465 bp

RefSeq ORF: 558 bp

Locus ID: 56769

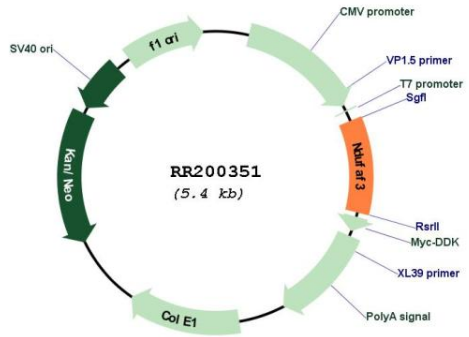
UniProt ID: [O08776](#)

Cytogenetics: 8q32

MW: 20.7 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]

Product images:



Circular map for RR200351