

Product datasheet for **RN200350**

Ndufaf3 (NM_001033971) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ndufaf3 (NM_001033971) Rat Untagged Clone
Tag: Tag Free
Symbol: Ndufaf3
Synonyms: RGD708545
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN200350 representing NM_001033971
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCCACTGCTCTAGGATTTTCGCTGCCTTTACCGAACGCGACCTGCGACGCTCGGTCCGAGGAGCCCGA
GTCCGGGGCACC GGCTTTCTCCGGCTGACGATGAGTTATACCAGCGGACGCGTATCTCTTTGCTGCAAAA
CGAGTTCCCTCAGGCCGTATACATCGACAGCTACAATAGCAGAGGTTTCACTATCAACGAAACCGCGTG
TTTGGACCTTGTGCGCTGCTCCACAGACCGTGGTCCAGTGGAACGTGGGATCTCATCAGGATATCACTG
AAGAGAGCTTCTCGATTTTCTGGATGCTGGAACCTAGGATAGAGATTGTTGTGGTGGGCACCGGAAACAA
GACTGAGCGGCTGCACTCTCAAGTCTGCAGGCCATGAGGCAGCGGGGAATTGCGGTGGAGATACAGGAC
ACGCCTAACGCCTGTGCCACCTTCAACTTCTGTGCCAGGAGTTCGAGTGACAGGAGCTGCCCTCATCC
CCCCACCTGGAGAGACTGCACTTGCCCTTCTGGTCAAACCACAGAG**TGA**

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII
ACCN: NM_001033971
Insert Size: 540 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).



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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, NP_001029143.1</u>
RefSeq Size:	1447 bp
RefSeq ORF:	540 bp
Locus ID:	56769
UniProt ID:	<u>O08776</u>
Cytogenetics:	8q32
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 5' coding region compared to variant 1. It encodes isoform b, which is shorter than isoform a.</p>