

Product datasheet for MR203465

Ndufs3 (NM_026688) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ndufs3 (NM_026688) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ndufs3
Synonyms:	0610010M09Rik; CI-30kD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203465 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCGGCTGCAGCCAGGGTCTGGTGTCTGGGCTCTGGGGCCGCTTCCGTAGGCAGGGGGCCTG
GGCGACCCTCCGTGCTGTGGCAGCACGTAAGAAGGAGAGCGCGCGGCTGACAAGCGCCCCACTGTCAG
ACCCTGGAGTGATGTGACCCACAAGCAGCTCTCAGCATTGGAGAGTATGTGGCTGAAATCTTACCCAAG
TATGTCCAACAAGTTCAGGTGCTCCTGCCTTGATGAGTTAGAAATCTGTATCCATCCCGATGGAGTCATCC
CAACGCTGACTTTTCTCAGGGATCACACCAATGCACAATCAAAATCCTTGCTGACTTGACGGCAGTGGA
TGTCCCAACTCGGCAGAACCGTTTTGAGATTGTCTACAACCTGCTGTCTGCGGTTCAACTCTAGGATT
CGTGTGAAGACCTATGCAGATGAGCTGACACCCATTGACTCTATAGTGTCTGTGCACATCGCGGCAATT
GGTATGAGAGGGAGGCTGGGACATGTTTGGAGTTTTCTTTTTAACCACCCTGATTTAAGAAGGATCCT
GACAGATTATGGCTTCGAGGGACATCCTTCCGAAAGACTTCCCTCACTGGCTATGTTGAGCTTCGT
TACGACGATGAGGTAAGCGGGTAGTGGCTGAACCAAGTGGAGCTGGCACAAGAATTCCGCAAGTTTGACC
TGAACAGCCCCTGGGAGGCTTCCCTGCCTATCGCCAGCTCTGAGAGTCTCAAGCTCGAAGCTGGAGA
CAAGAAGCCTGAAACCAAG

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203465 protein sequence
Red=Cloning site Green=Tags(s)

MAAAAARVWCRGLLGAASVGRGPRPSVLWQHVRRESAAADKRPTVPRWSDVTHKQLSAFGEYVAEILPK
 YVQVQVSCLELEICIHDPDGVIPITLFLRDHTNAQFKSLADLTAVDVPTRQNRFEIVYNLLSLRFNSRI
 RVKTYADELTPIDSIVSVHIAANWYEREVWDMFGVFFFNHPDLRRILTDYGFEGHPFRKDFPLTGYVELR
 YDDEVKRVVAEPVELAQEFRKFDLNSPWEAFPAYRQPPELKLKLEAGDKKPKETK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_026688

ORF Size: 792 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_026688.1](#), [NM_026688.2](#), [NP_080964.1](#)

RefSeq Size: 940 bp

RefSeq ORF: 792 bp

Locus ID: 68349

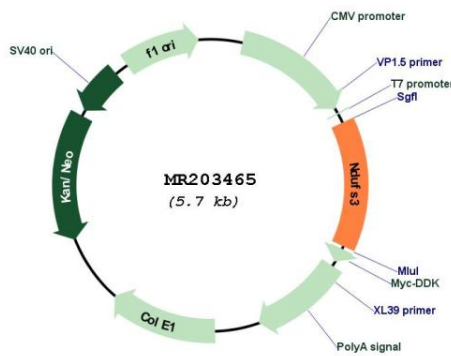
UniProt ID: [Q9DCT2](#)

Cytogenetics: 2 E1

MW: 30.2 kDa

Gene Summary: Core subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I) that is believed to belong to the minimal assembly required for catalysis. Complex I functions in the transfer of electrons from NADH to the respiratory chain. The immediate electron acceptor for the enzyme is believed to be ubiquinone (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203465