

Product datasheet for **MR207399**

Ndufs2 (NM_153064) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ndufs2 (NM_153064) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ndufs2
Synonyms:	CI-49kD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207399 representing NM_153064
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGCCCTGAGGGCGCTGCGCTGCCTCCGTGGGGTCCGAGCCCCGGTCTGCGGCCCGGGTCTGGGA
 TCCGCTTGCCAAGTCAGCCCAGCAGAGGTGCTCGGCAGTGGCAGCCAGATATTGAATGGCAGAGCAGTT
 TTCGGGAGCTGTCATGTACCCCTCCAAGGAAACAGCCCACTGAAACCTCCTCCTTGAATGATGTGGAC
 ATTTTGAAGGAAAAAGCGGTGACCAACATGACCCTGAACTTTGGGCCCCAGCACCCAGCAGCCACGGAG
 TCCTGAGACTCGTCTGGAAGTGTGGAGAGATGGTGCAGAAATGTGACCCTCACATCGGGCTCTGCA
 CCGAGGCACGGAGAAGCTCATTGAGTACAAGACCTATCTGCAGGCCCTTCCATACTTTGACCGGTTGGAC
 TATGTGTCCATGATGTGTAATGAACAGGCCTATTCGATAGCTGTGGAGAAGTTGCTAAACATCCAACCTC
 CTCTCGGGCACAGTGGATCCGAGTCTCTTTGGAGAGATCACACGGATTTTAAACCATATCATGGCTGT
 CACCACACATGCCCTGGACATCGGTGCCATGACTCCTTTCTTCTGGATGTTTGAAGAAAGAGAGAAGATG
 TTCGAGTTCTATGAGCGGGTGTCTGGGGCCCGGATGCACGCGGCGTATATCCGACCTGGAGGAGTGACC
 AGGACCTACCTCTTGGGCTTCTGGATGACATTTATGAGTTTTCCAAGAACTTCTCTCTTCGGATTGATGA
 GGTGGAGGAGATGCTGACCAACAATAGAATCTGGCGAAATAGGACAGTCGACATTGGGGTTGTAACAGCG
 GAAGACGCACTTAACTATGGATTCAGTGGGGTGTGCTCCGAGGCTCAGGCATCCAGTGGGACTTGGCGA
 AGACCCAGCCCTATGACGTTTACGACCAGGTGGAGTTTGTGTTCTATCGGTTCTCGAGGGGACTGCTA
 CGATAGGTACCTGTGTCGTGGAGGAGATGCGCCAGTCCCTGCGAATCATTGAGCAGTGTCTGAACAAG
 ATGCCTCCCGGGGAGATCAAGGTTGATGACGCCAAAGTGTCCCCACCGAAGCGAGCAGAGATGAAGACGT
 CCATGGAGTCACTAATTCATCACTTTAAGCTGTATACAGAGGGCTACCAAGTTCCAGGAGCCACATA
 TACTGCCATTGAAGCTCCTAAGGGAGAGTTTGGGGTATACTTGGTATCCGATGGCAGCAGCCGCCCTTAT
 CGGTGTAAGATCAAGGCTCCCGTTTTGCCACCTGGCTGGTTTGGACAAGATGTCTAAGGGACACATGT
 TGGCAGATGTCGTGGCCATCATAGGTACCCAGGATATTGTGTTCCGAGAAATAGACCGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207399 representing NM_153064
 Red=Cloning site Green=Tags(s)

MAALRALRCLRGVGPVLRPGSGIRLPSQPSRGARQWQPDIEWAEQFSGAVMYPKETAHWKPPPWNVDV
 ILKEKAVTNMTLNFQPQHPAAHGVRLVLELSGEMVRKCDPHIGLLHRGTEKLEIEKTYLQALPYFDRLD
 YVSMCNEQAYSIAVEKLLNIQPPRAQWIRVLFGEITRILNHIMAVTTHALDIGAMTPFFWMFEEREK
 MPPGEIKVDDAKVSPKRAEMKTSMESLIHHFKLYTEGYVPPGATYTAIEAPKGEFGVYLVSDGSSRPY
 RCKIKAPGFAHLAGLDKMSKGHMLADVVAIIGTQDIVFGEIDR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

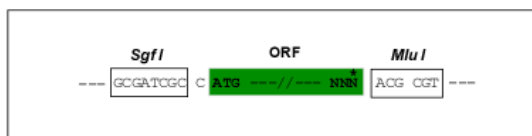
https://cdn.origene.com/chromatograms/mm9081_f12.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



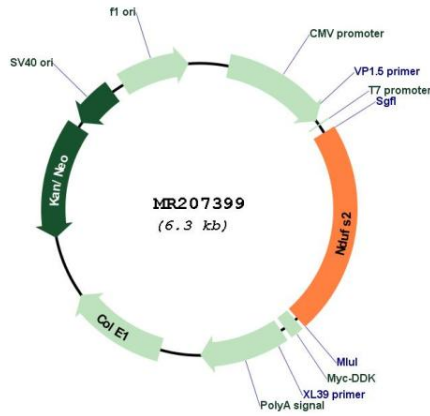
* The last codon before the Stop codon of the ORF

- ACCN: NM_153064
- ORF Size: 1389 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_153064.5](#), [NP_694704.1](#)
- RefSeq Size: 1623 bp
- RefSeq ORF: 1392 bp
- Locus ID: 226646
- UniProt ID: [Q91WD5](#)
- Cytogenetics: 1 H3

MW: 52.6 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.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207399