

Product datasheet for **MG207399**

Ndufs2 (NM_153064) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ndufs2 (NM_153064) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ndufs2
Synonyms:	CI-49kD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG207399 representing NM_153064
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGCCCTGAGGGCGCTGCGCTGCCTCCGTGGGGTCCGAGCCCCGGTCTGCGGCCCGGGTCTGGGA
 TCCGCTTGCCAAAGTCAGCCACGACAGAGGTCTCGGCAGTGGCAGCCAGATATTGAATGGCAGAGCAGTT
 TTCGGGAGCTGTCATGTACCCCTCCAAGGAAACAGCCCACTGAAACCTCCTCCTTGAATGATGTGGAC
 ATTTTGAAGGAAAAAGCGGTGACCAACATGACCCTGAACTTTGGGCCACGACCCAGCAGCCACGGAG
 TCCTGAGACTCGTCTGGAAGTGGAGAGATGGTGCAGAAATGTGACCCTCACATCGGGCTCTGCA
 CCGAGGCACGGAGAAGCTCATTGAGTACAAGACCTATCTGCAGGCCCTTCCATACTTTGACCGGTTGGAC
 TATGTGTCCATGATGTGTAATGAACAGGCCTATTCGATAGCTGTGGAGAAGTTGCTAAACATCCAACCTC
 CTCTCGGGCACAGTGGATCCGAGTCTCTTTGGAGAGATCACACGGATTTTAAACCATATCATGGCTGT
 CACCACACATGCCCTGGACATCGGTGCCATGACTCCTTTCTTCTGGATGTTTGAAGAAAGAGAGAAGATG
 TTCGAGTTCTATGAGCGGGTGTCTGGGGCCCGGATGCACGCGGCGTATATCCGACCTGGAGGAGTGACC
 AGGACCTACCTCTTGGGCTTCTGGATGACATTTATGAGTTTTCCAAGAACTTCTCTCTTCGGATTGATGA
 GGTGGAGGAGATGCTGACCAACAATAGAATCTGGCGAAATAGGACAGTGCACATTGGGGTTGTAACAGCG
 GAAGACGCACTTAACTATGGATTCAGTGGGGTGTGCTCCGAGGCTCAGGCATCCAGTGGGACTTGGCGA
 AGACCCAGCCCTATGACGTTTACGACAGGTGGAGTTTGTATGTTCTATCGGTTCTCGAGGGGACTGCTA
 CGATAGGTACCTGTGTCGTGGAGGAGATGCCAGTCCCTGCGAATCATTGAGCAGTGTCTGAACAAG
 ATGCCTCCCGGGGAGATCAAGGTTGATGACGCCAAAGTGTCCCCACCGAAGCGAGCAGAGATGAAGACGT
 CCATGGAGTCACTAATTCATCACTTTAAGCTGTATACAGAGGGCTACCAAGTTCCCTCAGGAGCCACATA
 TACTGCCATTGAAGCTCCTAAGGGAGAGTTTGGGGTATACTTGGTATCCGATGGCAGCAGCCGCCCTTAT
 CGGTGTAAGATCAAGGCTCCCGTTTTGCCACCTGGCTGGTTTGGACAAGATGTCTAAGGGACACATGT
 TGGCAGATGTCGTGGCCATCATAGGTACCCAGGATATTGTGTTCCGAGAAATAGACCGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207399 representing NM_153064
 Red=Cloning site Green=Tags(s)

MAALRALRCLRGVGPVLRPGSGIRLPSQPSRGARQWQPDIEWAEQFSGAVMYPKETAHWKPPPWNDVD
 ILKEKAVTNMNLNFGPQHAAHGVLRVLELSEGMVRKCDPHIGLLHRGTEKLEIYKTYLQALPYFDRLD
 YVSMCNEQAYSIAVEKLLNIQPPRAQWIRVLFGEITRILNHIMAVTTHALDIGAMTPFFWMFEEREKM
 FEFYERVSGARMHAAYIRPGGVHQDLPLGLLDDIYEFKSNFSLRIDEVEEMLTNNRIWRNRTVDIGVVTA
 EDALNYGFSGVMLRSGIQWDLRKTQPYDVYDQVEFDVPIGSRGDCYDRYLCRVEEMRQSLRIIEQCLNK
 MPPGEIKVDDAKVSPPKRAEMKTSMESLIHHFKLYTEGYVPPGATYTAIEAPKGEFGVYLVSDGSSRPY
 RCKIKAPGFAHLAGLDKMSKGHMLADVVAIIGTQDIVFGEIDR

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


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: 1606 bp

RefSeq ORF: 1392 bp

Locus ID: 226646

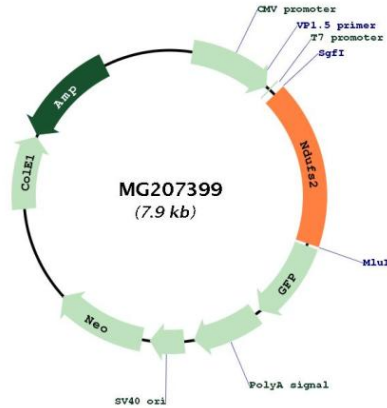
UniProt ID: [Q91WD5](#)

Cytogenetics: 1 H3

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 MG207399