

Product datasheet for **MG201799**

Ndufb5 (NM_025316) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ndufb5 (NM_025316) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Ndufb5
Synonyms: 0610007D05Rik; AU015782; CI-SGDH; SGDH
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201799 representing NM_025316
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGCCATGAGCCTGCTGCAGCGGGCTTCGGTCTCCGCGCTGACAGCGCTGTCTTGCCGCCGCGCTG
 GTCCTAGACTCGGAGTCGGAAGTTTTCTCAGCGGAGCTTCCGAAGACTGTCGCTCCTGTGCGGCACAG
 TGGGGACCATGGCAAGAGACTGTTGTCGTCGCAAGCCTCTTTATACTATGACGCTCGCTTCTTGAGGTTA
 ATGAAATCTACCTTATGTTGACTGGGATCCCAGTTATAATTGGCATAAACTGGTGAACATATTTATTG
 GTGAAGCCGAGCTTGCAAAAATCCAGAAGGCTACATCCCTGAACACTGGGAGTATTACAAGCATCCGAT
 ATCAAGATGGATCGCCCGAATTTCTATGATGGCCCTGAAAAGAACTACGAGAAAACCCTGGCTATCCTC
 CAGATTGAATCTGAAAAGGCTGAGTTACGGTTAAAGGAGCAGGAAGTTCGAAGGCTGATCGGTGCCCGAG
 GTGATGGACCCTGGTATCAATTTCCAACCCTGAAAAGGAGTTCAATTGATCATTCTCAAAGGCAACTCC
 TGACAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201799 representing NM_025316
 Red=Cloning site Green=Tags(s)

MAAMSLLRASVSALTALSCRAGPRLGVGSFLTRSFPKTVAPVRHSGDHGKRLFVVKPSLYYDARFLRL
 MKFYLMLTGIPVIGITLVNIFIGEAELAEIPEGYIPEHWEYKHPISRWIARNFYDGPEKNYEKTLAIL
 QIESEKAE LRLKEQEVRRMLMRARGDGPWYQFPTPEKEFIDHSPKATPDN

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

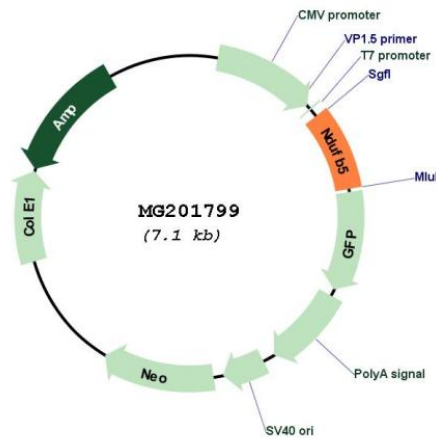


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Cloning Scheme:



Plasmid Map:



ACCN: NM_025316

ORF Size: 567 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_025316.2](#), [NP_079592.2](#)

RefSeq Size: 999 bp

RefSeq ORF: 570 bp

Locus ID: 66046

UniProt ID: [Q9CQH3](#)

Cytogenetics: 3 A3

Gene Summary: Accessory subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I), that is believed not to be involved in 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]