

Product datasheet for **MG203147**

Ndufv2 (NM_028388) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Ndufv2 (NM_028388) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Ndufv2 |
| Synonyms: | 2900010C23Rik |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >MG203147 representing NM_028388 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTCTCCTTGGCGCTGCGGGCCAGGGCGACCGCCTCGCTGCTCAGTGGGAAGACATGCAAGGAATT
TGCATAAGACAGCAGTGCACAATGGTGTGGAGGAGCCTTATTTGTGCATAGAGATACTCCTGAGAATAA
CCCAGATACTCCATTTGATTTACACCAGAAACTATAAGAGGATAGAGGCAATAGTAAAAACTACCCA
GAAGGGCATCAAGCCGCTGCTGTGCTTCCAGTCTGGATCTCGCCAAAGGCAGAATGGATGGCTACCTA
TCTCCGCTATGAACAAGTGGCTGAAGTTTACAAGTACCTCCAATGAGAGTATATGAAGTAGCACTTT
TTATACAATGTATAATCGAAAGCCAGTTGGGAAGTACCATATCCAGGTCTGCACTACTACACCTTGCATG
CTGCGAGATTCTGACAGCATATTGGAGACCTTCAGAGAAAGCTTGAATAAAGTTGGAGAGACTACAC
CTGACAACTTTTCACTCTTATAGAAGTGAATGTTTAGGGCCTGTGTAATGCACCGATGGTTCAAAT
AAATGACAACACTATGAGGATCTGACACCAAGGATATTGAAGAGATTATTGATGAACCTCAAAGCTGGA
AAAGTTCCCAAACCAGGGCCAAGGAGTGCCGCTTCTGTTGTGAGCCAGCTGGAGGCCTTACTTCTTTGA
CTGAACCACCAAAGGACCTGGCTTTGGTGTGCAAGCAGGCCTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >MG203147 representing NM_028388
Red=Cloning site Green=Tags(s)

MFSLALRARATGLAAQWGRHARNLHKTAVHNGAGGALFVHRDTPENNPDPDFDTPENYKRIEAIKVNYP
 EGHQAAAVLPVLDLAQRQNGWLPISAMNKVAEVLQVPPMRVYEVATFYTMYNRKPVGKYHIQVCTTTPCM
 LRSDSILETLQRKLGIKVGETTPDKLFTLIEVECLGACVNAPMVQINDNYYEDLTPKDIEEIIIDELKAG
 KVPKPGPRSGRFCCPEAGGLTSLTEPPKPGFGVQAGL

TRTRPLE - GFP Tag - V

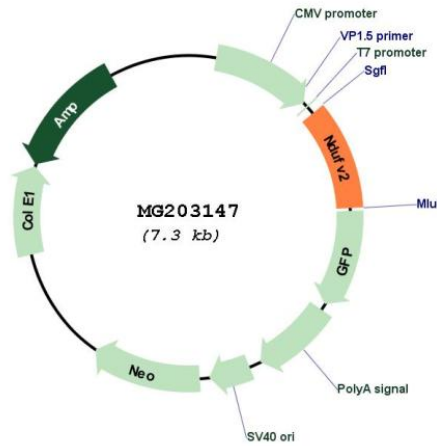
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_028388

ORF Size: 744 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: | <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: | NM_028388.3 , NP_082664.1 |
| RefSeq Size: | 1474 bp |
| RefSeq ORF: | 747 bp |
| Locus ID: | 72900 |
| UniProt ID: | Q9D6J6 |
| Cytogenetics: | 17 E1.1 |
| Gene Summary: | This gene encodes a subunit of the NADH-ubiquinone oxidoreductase (complex I) enzyme, which is a large, multimeric protein. It is the first enzyme complex in the mitochondrial electron transport chain and catalyzes the transfer of electrons from NADH to the electron acceptor ubiquinone. The proton gradient created by electron transfer drives the conversion of ADP to ATP. This gene is a core subunit and is conserved in prokaryotes and eukaryotes. The bovine ortholog of this protein has been characterized and is reported to contain an iron-sulfur cluster, which may be involved in electron transfer. In humans mutations in this gene are implicated in Parkinson's disease, bipolar disorder, schizophrenia, and have been found in one case of early onset hypertrophic cardiomyopathy and encephalopathy. A pseudogene of this gene is located on chromosome 3. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jun 2013] |