

Product datasheet for **MG201450**

Ndufa8 (NM_026703) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ndufa8 (NM_026703) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Ndufa8
Synonyms: 0610033L03Rik; AW261656
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201450 representing NM_026703
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGGGATAGTGGAGCTGCCAACTCTGGAAGAGCTGAAAGTGGAGGAGGTGAAAGTCAGCTCAGCTG
TGCTTAAAGCTGCCGCCATCACTATGGGGCTCAGTGCATAAAACCAATAAGGAGTTTATGCTGTGCCG
CTGGGAAGAGAAGGACCAAGGCGCTGCCTGAAGGAGGCAAGCTGGTCAACGGCTGTGCCGTAACCTC
TTCAGGCAGATAAAGAGTCACTGTGCGGAGCCTTTCACAGAGTACTGGACTTGCCTTGATTACTCCAACA
TGCAGCTGTTTCGTCAGTCCCGCCAGCAGCAGGCAAAGTTTGACCAGTGTGTGCTGGACAACTGGGCTG
GGTGAAGCCGGACCTGGGGCAGTTGTCTAAGGTCACCAAAGTGAAAACAGATCGTCTTTGCCAGAGAAT
CCTTATCACTCAAGAGCAAGGCCAGAGCCCAACCTGTGATTGAAGGGGATCTGAAACCCGCCAAGCAGC
GCACCCGCTTTTTTTCTGGACCGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201450 representing NM_026703
Red=Cloning site Green=Tags(s)

MPGIVELPTLEELKVEEVKVVSSAVLKAAAHYGAQCDKTNKEFMLCRWEEKDPRRCLKEGKLVNGCALNF
FRQIKSHCAEPFTEYWTCLDYSNMQLFRHCRQQQAKFDQCVLDKLGWVRPDLGQLSKVTKVKTDRLPEN
PYHSRARPEPNPVEGDLKPAKHGTRFFFWTV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

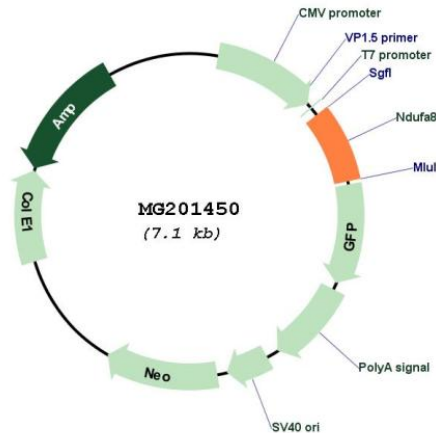


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Cloning Scheme:



Plasmid Map:



ACCN: NM_026703

ORF Size: 516 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:	<u>NM_026703.3</u>
RefSeq Size:	739 bp
RefSeq ORF:	519 bp
Locus ID:	68375
UniProt ID:	<u>Q9DCJ5</u>
Cytogenetics:	2 B
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]