

Product datasheet for **MG200458**

Ndufa7 (NM_023202) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ndufa7 (NM_023202) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Ndufa7
Synonyms: 14.5kD; 14.5kDa; 2400007M02Rik; CI-B14.5a
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG200458 representing NM_023202
Red=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGTCCGCTACTCGCGTTATCCAAAAGCTGCGGAACCTGGCGTCTGGGCAAGACCTGCAGGCGAAGC
TACAGCTGCGCTACCAGGAGATCGCCAAGCGGACCCAGCCACCTCCGAACTCCCGTGGGCCCCAGTCA
CAAGCTGTCCAACAATTACTACTGTACTCGTGATGGCCGCGGGAAGTTGTGCCTCCCTCAATCATCATG
TCCTCACAAAAGGCCCTGGTGTCAAGCAAGGCCCGGAGAGTTCTGCAATGGCAGCCACTGAGAAGAAGG
CAGTGACACCTGCTCCTCCCATGAAGAGGTGGGAGCTGTCCAAGGACCAGCCATACCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG200458 representing NM_023202
Red=Cloning site **Green**=Tags(s)
MASATRVIQKLRNWSGQDLQAKLQLRYQEIAKRTQPPPKLPGVPSHKLNNYYCTRDGRREVPPSIIM
SSQKALVSGKAAESSAMAATEKKAVTPAPPMKRWELSKDQPYL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

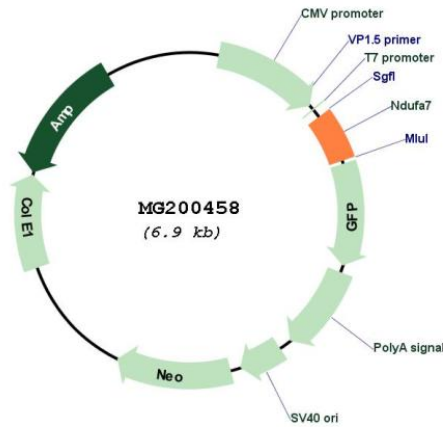


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Cloning Scheme:



Plasmid Map:



ACCN: NM_023202

ORF Size: 339 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_023202.4
RefSeq Size:	482 bp
RefSeq ORF:	342 bp
Locus ID:	66416
UniProt ID:	Q9Z1P6
Cytogenetics:	17 B1
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. Complex I has been biochemically separated into four fractions. The bovine ortholog of this protein has been reported to be part of the I-lambda fraction, which forms the extrinsic globular domain. In humans, deficiencies in complex I are associated with myopathies, encephalomyopathies, and neurodegenerative disorders. Pseudogenes of this gene are located on chromosomes 7 and 16. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2013]