

## Product datasheet for **MG202618**

### Ndufs7 (NM\_029272) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ndufs7 (NM_029272) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ndufs7
Synonyms:	1010001M04Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202618 representing NM_029272 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGCGCTGGCGGCTCCTGGCCTGCTCTGTACGGATCCTGGGTCTGCGCACAGCACAGGTCCAGC  
TGCAGAGTTCATCAGAGTGTAGCCACTGAGGGCCGAGCCGAGCCCAAGCCGAGCCTGAGCAGCAC  
ACAGTCTGCTGTGTCCAAGGCTGGAGCTGGAGCCGTGGTCCCAAGCTCTCTCATCTTCCCGAAGCCGG  
GCTGAGTATGTGGTGACCAAGCTGGATGACCTCATCAACTGGGCACGCCGAGCTCCCTGTGGCCTATGA  
CCTTCGGCCTGGCGTGTGTGCCGTGGAGATGATGCACATGGCTGCGCCGCGCTATGACATGGACCCTT  
CGGTGTGGTGTCCGTGCCAGTCCGCGCCAGGCTGATGTGATGATTGTAGCTGGCAGCTTACCAACAAG  
ATGGCCCCCGCGCTCCGAAAGGTGTACGACCAGATGCCCGAACCCGCTATGTGGTGTCCATGGGGAGCT  
GTGCCAATGGCGGTGGCTACTACCACTACTCCTACTCGTTGTTTCGTGGCTGTGACCCGATTGTGCCAGT  
GGACATCTATGTGCCAGGCTGCCCGCCACGGCCGAAGCACTCCTTTATGGCATCTTGCAGCTGCAACGG  
AAGATCAAGCGTGAACAGAAGCTGAAGATCTGGTACCGCAGG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG202618 representing NM\_029272  
Red=Cloning site Green=Tags(s)

MAALAAPGLLSVRILGLRRTAQVQLRRVHQSVATEGPPSPSPSPSL SSTQSAVSKAGAGAVPKLSHLPRSR  
 AEYVVTKLDDLINWARRSSLWPMTFGLACCAVEMMHMAAPRYMDRFVVFRASPRQADVMI VAGTLTNK  
 MAPALRKVYDQMPPEPRYVVMGSCANGGGYYHYSYSVVRGCDRIVPVDIYVPGCPPTAEALLYGILQLQR  
 KIKREQLKLIWYRR

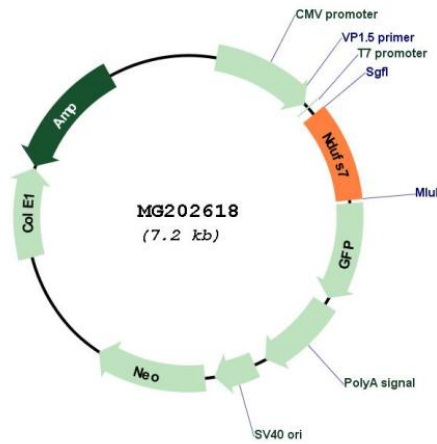
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_029272

**ORF Size:** 672 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_029272.4</a>
<b>RefSeq Size:</b>	759 bp
<b>RefSeq ORF:</b>	675 bp
<b>Locus ID:</b>	75406
<b>UniProt ID:</b>	<a href="#">Q9DC70</a>
<b>Cytogenetics:</b>	10 39.72 cM
<b>Gene Summary:</b>	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]