

## **Product datasheet for MG224673**

## Ndufaf2 (NM\_001127346) Mouse Tagged ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

Product Name: Ndufaf2 (NM\_001127346) Mouse Tagged ORF Clone

Tag: TurboGFP Symbol: Ndufaf2

**Synonyms:** 1810058I14Rik; C86051; mimitin; Ndufa12I

Mammalian Cell Neomycin

Selection:

**Vector:** pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >MG224673 representing NM\_001127346
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

AAAGACAAAGTCAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG224673 representing NM\_001127346

Red=Cloning site Green=Tags(s)

MSWWSGVWRSVWSALSREVREHVGTDHLGNKYYYVAEYKNWRGQTIREKRIVEAANRKEVDYEAGDIPTE WEAWIRRTRKTPPTMEEILKNEKYREEIKIKSQDFYEKDKLGKETSEELLPSPTATQVKGHASAPYFGRE

 ${\tt EPSVAPTSTGKTFQPGSWTPEDGKRQSQ}$ 

TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-Mlul



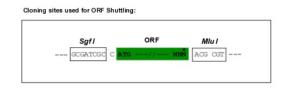
**OriGene Technologies, Inc.** 9620 Medical Center Drive, Ste 200

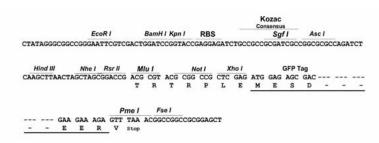
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

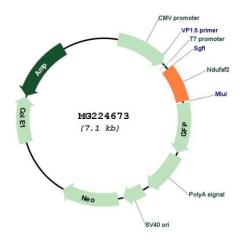


## **Cloning Scheme:**





## Plasmid Map:



**ACCN:** NM\_001127346

ORF Size: 504 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: <u>NM 001127346.1</u>, <u>NP 001120818.1</u>

 RefSeq Size:
 696 bp

 RefSeq ORF:
 507 bp

 Locus ID:
 75597

 UniProt ID:
 Q59|78

 Cytogenetics:
 13 D2.1

**Gene Summary:** Acts as a molecular chaperone for mitochondrial complex I assembly. 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]