

Product datasheet for **RG207387**

Mimitin (NDUFAF2) (NM_174889) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mimitin (NDUFAF2) (NM_174889) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: NDUFAF2
Synonyms: B17.2L; MC1DN10; mimitin; MMTN; NDUFA12L
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG207387 representing NM_174889
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGTTGGTCTCAGGATTTGTTCCGCGCCTTGTGGAGATCGCTGTCAAGGGAAGTGAAGGAGCACGTGG
 GCACGGACCAATTCGGGAACAAATACTACTACATCCCAGTACAAGAACTGGAGAGGACAACTATTTCG
 AGAGAAAAGAATTGTAGAAGCAGCAAATAAAAAAGAAGTAGACTATGAAGCAGGGGATATCCAACAGAA
 TGGGAAGCTTGGATTAGAAGAACAAGAAAGACTCCACCTACTATGGAGGAAATACTAAAGAATGAAAAAC
 ACAGAGAAGAAATCAAAATAAAAAGCCAAGATTTTATGAAAAAGAAAACTCCTTAGTAAAGAGACCAG
 TGAGGAACTCCTGCCTCCACCAGTTCAAATCAAATTAAGGCCATGCCTCTGCTCCATACTTTGGAAG
 GAAGAACCCTCAGTGGCTCCAGCAGCACTGGTAAAACCTTTCAGCCAGGATCCTGGATGCCACGAGATG
 GCAAGAGCCACAATCAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG207387 representing NM_174889
 Red=Cloning site Green=Tags(s)

MGWSQDLFRALWRSLSREVKHEVGTDFGNKYYYIPQYKNWRQTIREKRIVEAANKKEVDYEAGDIPT
 WEAWIRTRKTPPTMEEILKNEKHREEIKIKSQDFYEKEKLLSKETSEELLPPPVTQIKGHASAPYFGK
 EEPVAPSTGKTFQPGSWMPRDGKSHNQ

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

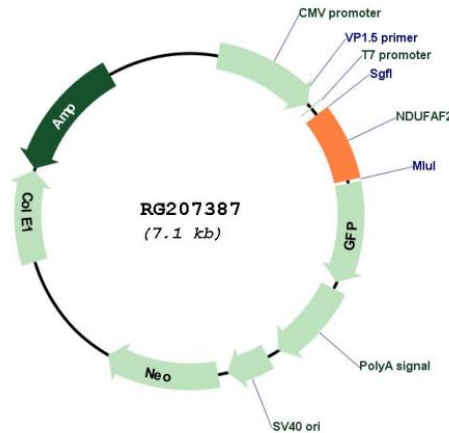


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Cloning Scheme:



Plasmid Map:



ACCN: NM_174889

ORF Size: 507 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_174889.5</u>
RefSeq Size:	650 bp
RefSeq ORF:	510 bp
Locus ID:	91942
UniProt ID:	<u>Q8N183</u>
Cytogenetics:	5q12.1
Gene Summary:	NADH:ubiquinone oxidoreductase (complex I) catalyzes the transfer of electrons from NADH to ubiquinone (coenzyme Q) in the first step of the mitochondrial respiratory chain, resulting in the translocation of protons across the inner mitochondrial membrane. This gene encodes a complex I assembly factor. Mutations in this gene cause progressive encephalopathy resulting from mitochondrial complex I deficiency. [provided by RefSeq, Jul 2008]