

Product datasheet for **RG201988**

NDUFB3 (NM_002491) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NDUFB3 (NM_002491) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: NDUFB3
Synonyms: B12; CI-B12; MC1DN25
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG201988 representing NM_002491
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCCATGAACATGGACATGAGCATGGACATCATAAAATGGAACCTCCAGATTATAGACAATGGAAGA
 TAGAAGGGACACCATTAGAACTATCCAGAAGAAGCTGGCTGCAAAGGGCTAAGGGATCCATGGGGCCG
 CAATGAAGCTTGGAGATACATGGGTGGCTTTGCAAAGAGTGTTCCTTTCTGATGTATTCTTTAAAGGA
 TTCAAATGGGGATTTGCTGCATTTGTGGTAGCTGTAGGAGCTGAATATTACCTGGAGTCCCTGAATAAAG
 ATAAGAAGCATCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

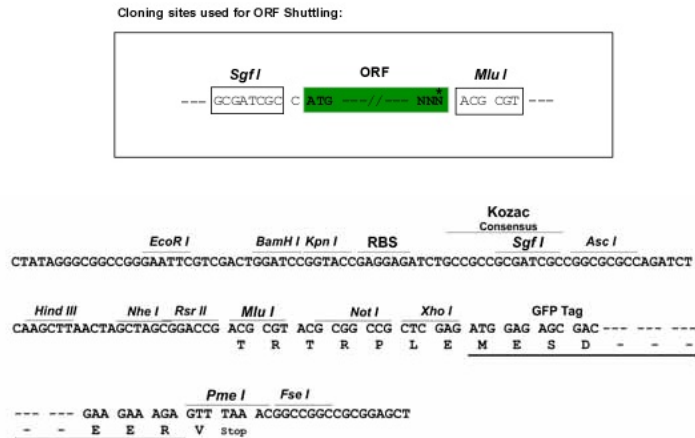
Protein Sequence: >RG201988 representing NM_002491
 Red=Cloning site Green=Tags(s)
 MAHEHGHEGHKME L P D Y R Q W K I E G T P L E T I Q K K L A A K G L R D P W G R N E A W R Y M G G F A K S V S F S D V F F K G
 F K W G F A A F V V A V G A E Y Y L E S L N K D K K H H

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_002491

ORF Size: 294 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.

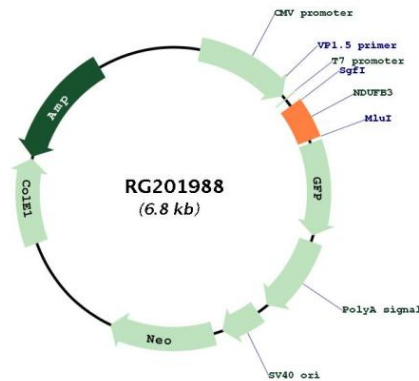
RefSeq: [NM_002491.3](#)

RefSeq Size: 693 bp

RefSeq ORF: 297 bp

Locus ID: 4709
UniProt ID: [O43676](#)
Cytogenetics: 2q33.1
Protein Families: Transmembrane
Protein Pathways: Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease
Gene Summary: This gene encodes an accessory subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I) which is the first enzyme in the electron transport chain of mitochondria. This protein localizes to the inner membrane of the mitochondrion as a single-pass membrane protein. Mutations in this gene contribute to mitochondrial complex 1 deficiency. Alternative splicing results in multiple transcript variants encoding the same protein. Humans have multiple pseudogenes of this gene. [provided by RefSeq, Mar 2012]

Product images:



Circular map for RG201988