

Product datasheet for **RG201166**

NDUFB8 (NM_005004) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NDUFB8 (NM_005004) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: NDUFB8
Synonyms: ASHI; CI-ASHI; MC1DN32
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG201166 representing NM_005004
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGTGGCCAGGGCCGGGTCTTGGGAGTCCAGTGGCTGCAAAGGGCATCCCGAACGTGATGCCGC
 TGGGCGCACGGACAGCCTCCCACATGACCAAGGACATGTTCCCGGGCCCTATCCTAGGACCCAGAAGA
 ACGGGCCCGCCGCCAAGAAGTATAATATGCGTGTGGAAGACTACGAACCTTACCCGGATGATGGCATG
 GGGTATGGCGACTACCCGAAGCTCCCTGACCGCTCACAGCATGAGAGAGATCCATGGTATAGCTGGGACC
 AGCCGGGCTGAGGTTGAACTGGGTGAACCGATGCACTGGCACCTAGACATGTACAACAGGAACCGTGT
 GGATACATCCCCACACCTGTTTCTTGGCATGTATGTATGCAGCTCTTCGGTTTCCTGGCTTTCATG
 ATATTCATGTGCTGGGTGGGGACGTGTACCCTGTCTACCAGCCTGTGGGACCAAAGCAGTATCCTTACA
 ATAATCTGTACCTGGAACGAGCGGTGATCCCTCAAAGAACCAGAGCGGGTGGTTCACTATGAGATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG201166 representing NM_005004
 Red=Cloning site Green=Tags(s)

MAVARAGVLGVQWLQRASRNVMLGARTASHMTKDMFPGYPRTPEERAAAAKKYNMRVEDYEPYPDDGM
 GYGDPKLPDRSQHERDPWYSWDQPGLRLNWGPEMHWLDMYNNRNRVDTSPTPVSWHVMCMQLFGFLAFM
 IFMCWVGDVYPVYQPVGPKQYPYNNLYLERGGDPSKEPERVVHYE I

TRTRPLE - GFP Tag - V

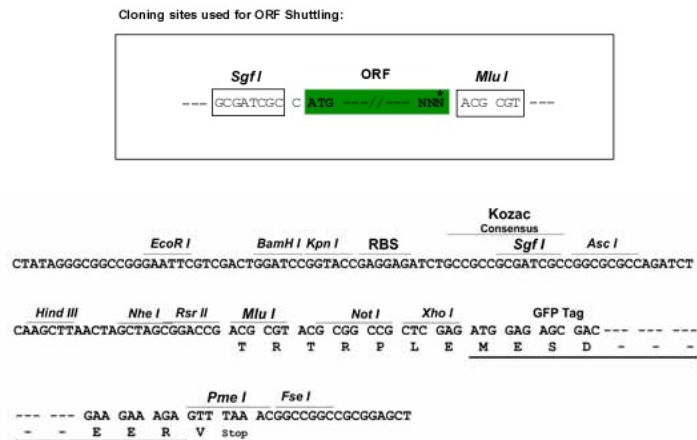
Chromatograms: https://cdn.origene.com/chromatograms/ja2796_b03.zip



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005004

ORF Size: 558 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_005004.4](#)

RefSeq Size: 686 bp

RefSeq ORF: 561 bp

Locus ID: 4714

UniProt ID: [O95169](#)

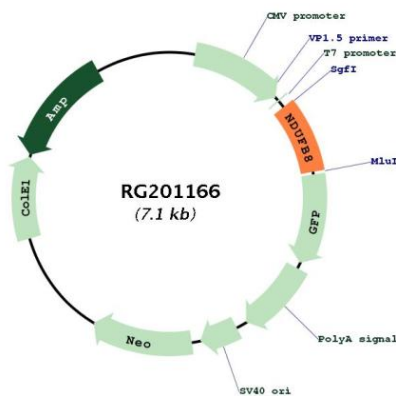
Cytogenetics: 10q24.31

Protein Families: Transmembrane

Protein Pathways: Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease

Gene Summary: Accessory subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I), that is believed not to be involved in 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]

Product images:



Circular map for RG201166