

## Product datasheet for **RG236258**

### NDUFB8 (NM\_001284367) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** NDUFB8 (NM\_001284367) 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:** >RG236258 representing NM\_001284367.  
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCGGTGGCCAGGGCCGGGTCTTGGGAGTCCAGTGGCTGCAAAGGGCATCCCGAACGTGATGCCG
CTGGGCGCACGGACAGCCTCCACATGACCAAGGACATGTTCCCGGGCCCTATCCTAGGACCCAGAA
GAACGGGCGCCGCCCAAGAAGTATAATATGCGTGTGGAAGACTACGAACCTTACCCGGATGATGGC
ATGGGGTATGGCGACTACCCGAAGCTCCCTGACCGCTCACAGCATGAGAGAGATCCATGGTATAGCTGG
GACCAGCCGGCCTGAGTTGAACTGGGTGAACCGATGCACTGGCACCTAGACATGTACAACAGGAAC
CGTGTGGATACATCCCCACACCTGTTTCTTGGCATGTCATGTGTATGCAGCTCTTCGGTTTCCTGGCT
TTCATGATATTCATGTGCTGGGTGGGGACGTGTACCCTGTCTACCAGCCTGTGTGTAGGCACCCTTC
TCTTACAATTTAGGCTTTCTCTGCTGCTTGGGC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

**Protein Sequence:** >Peptide sequence encoded by RG236258  
Blue=ORF Red=Cloning site Green=Tag(s)

```
MAVARAGVLGVQWLQRASRNVMLPLGARTASHMTKDMFPGYPRTPEERAAAACKYNMRVEDYEPYPDDG
MGYGDYPLKPDRSQHERDPWYSWDQPGLRLNWGEPMHWHLDMYNRRVDTSPTPVSWHVMMQFLGFLA
FMIFMCWVGDVYPVYQVCRHHFSYNLGFLSALG
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLVHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_001284367

**ORF Size:** 516 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).

**RefSeq:** [NM\\_001284367.1](#), [NP\\_001271296.1](#)

**RefSeq Size:** 968 bp

**RefSeq ORF:** 519 bp

**Locus ID:** 4714

**UniProt ID:** [O95169](#)

**Cytogenetics:** 10q24.31

**Protein Families:** Transmembrane

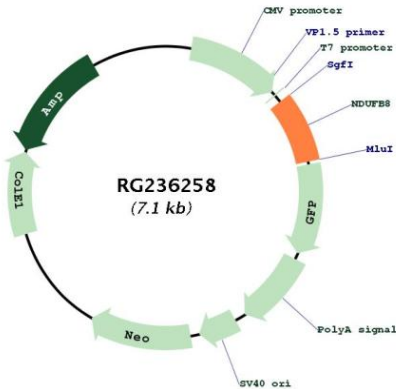
**Protein Pathways:** Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease

**MW:** 20.5 kDa

**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 RG236258