

Product datasheet for **RG235942**

NDUFB9 (NM_001278646) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NDUFB9 (NM_001278646) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: NDUFB9
Synonyms: B22; CI-B22; LYRM3; MC1DN24; UQOR22
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG235942 representing NM_001278646.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAGAGCCCGTTTGAAGAACAATAAGAATGAAAAGGATATGGCGAAGGCCACCCAGCTGCTGAAGGAG
GCCGAGGAAGAATTCTGGTACCGTCAGCATCCACAGCCATACATCTTCCCTGACTCTCTGGGGGCACC
TCCTATGAGAGATACGATTGCTACAAGTCCCAGAATGGTGCTTAGATGACTGGCATCCTCTGAGAAG
GCAATGTATCCTGATTACTTTGCCAAGAGAGAACAGTGAAGAACTGCGGAGGGAAAGCTGGGAACGA
GAGGTTAAGCAGCTGCAGGAGGAAACGCCACCTGGTGGTCCTTAACTGAAGCTTGGCCCTGCCCGA
AAGGAAGGTGATTTGCCCCACTGTGGTGTATATTGTGACCAGACCCCGGAGCGGCCCATG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG235942
Blue=ORF Red=Cloning site Green=Tag(s)

```
MRARFEEHKNEKMAKATQLLKEAEEEFWYRQHPQPYIFPDSPPGTSYERYDCYKVPWCLDDWHPSEK
AMYPDYFAKREQWKKLRRESWEREVKQLQEETPPGGPLTEALPPARKEGDLPLWWYIVTRPRRPM
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_001278646

ORF Size: 408 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_001278646.1](#), [NP_001265575.1](#)

RefSeq Size: 733 bp

RefSeq ORF: 411 bp

Locus ID: 4715

Cytogenetics: 8q24.13

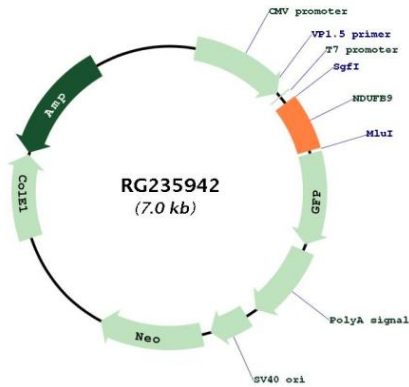
Protein Pathways: Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease

MW: 17 kDa

Gene Summary:

The protein encoded by this gene is a subunit of the mitochondrial oxidative phosphorylation complex I (nicotinamide adenine dinucleotide: ubiquinone oxidoreductase). Complex I is localized to the inner mitochondrial membrane and functions to dehydrogenate nicotinamide adenine dinucleotide and to shuttle electrons to coenzyme Q. Complex I deficiency is the most common defect found in oxidative phosphorylation disorders and results in a range of conditions, including lethal neonatal disease, hypertrophic cardiomyopathy, liver disease, and adult-onset neurodegenerative disorders. Pseudogenes of this gene are found on chromosomes five, seven and eight. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2015]

Product images:



Circular map for RG235942