

Product datasheet for **RG200223**

NDUFB9 (NM_005005) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NDUFB9 (NM_005005) 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: >RG200223 representing NM_005005
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGTTCCTGGCGTCGGGACCCTACCTGACCCATCAGCAAAGGTGTTGCGGCTTTATAAGCGGGCGC
 TACGCCACCTCGAGTCGTGGTCCAGAGAGACAAATACCGATACTTTGCTTGTGGATGAGAGCCCG
 GTTTGAAGAACATAAGAATGAAAAGGATATGGCGAAGGCCACCCAGCTGCTGAAGGAGGCCGAGGAAGAA
 TTCTGGTACCGTCAGCATCCACAGCCATACATCTTCCCTGACTCTCTGGGGCACCTCCTATGAGAGAT
 ACGATTGCTACAAGTCCAGAATGGTGTAGATGACTGGCATCCTTCTGAGAAGGCAATGTATCCTGA
 TTACTTTGCCAAGAGAGAACAGTGAAGAACTGCGGAGGAAAGCTGGGAACGAGAGGTTAAGCAGCTG
 CAGGAGGAAACGCCACCTGGTGGTCCTTAACTGAAGCTTTGCCCCCTGCCCGAAAGGAAGGTGATTGCG
 CCCACTGTGGTGGTATATTGTGACCAGACCCCGGAGCGGCCCATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG200223 representing NM_005005
 Red=Cloning site Green=Tags(s)

MAFLASGPYLTHQQKVLRLYKRALRHLESWCVQRDKYRYFAFLMRARFEEHKNEKDMAKATQLLKEAEEE
 FWYRQHPQPYIFPDSPGGTSYERYDCYKVPWCLDDWHPSEKAMYPDYFAKREQWKKLRRESWEREVKQL
 QEETPPGGPLTEALPPARKEGDLPLWYIVTRPRRPM

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_005005

ORF Size: 537 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_005005.3](#)

RefSeq Size: 740 bp

RefSeq ORF: 540 bp

Locus ID: 4715

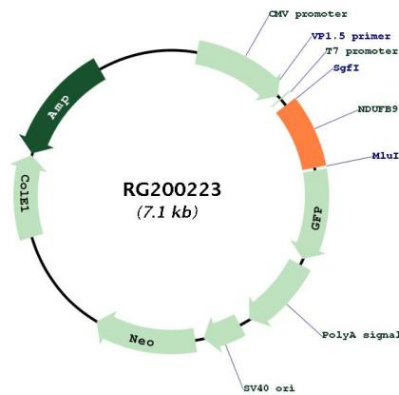
UniProt ID: [Q9Y6M9](#)

Cytogenetics: 8q24.13

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

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 RG200223