

Product datasheet for **RG200061**

NDUFA8 (NM_014222) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NDUFA8 (NM_014222) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: NDUFA8
Synonyms: CI-19KD; CI-PGIV; MC1DN37; PGIV
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG200061 representing NM_014222
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCGGGATAGTGGAGCTGCCACTCTAGAGGAGCTGAAAGTAGATGAGGTGAAAATTAGTTCTGCTG
 TGCTTAAAGCTGCGGCCATCACTATGGAGCTCAATGTGATAAGCCCAACAAGGAATTTATGCTCTGCCG
 CTGGGAAGAGAAAGATCCGAGGCGGTGTTAGAGGAAGGCAAAGTGGTCAACAAGTGTGCTTTGGACTTC
 TTTAGGCAGATAAACGTCCTGTGCAGAGCCTTTACAGAATATTGGACTTGCATTGATTATACTGGCC
 AGCAGTTATTTTCGTCCTGTGCAAAACAGCAGGCAAAGTTTGACGAGTGTGTGCTGGACAACTGGGCTG
 GGTGCGGCCTGACCTGGGAGAAGTGTCAAAGGTCACCAAAGTGAAAACAGATCGACCTTTACCGGAGAAT
 CCCTATCACTCAAGACCAAGACCGGATCCAGCCCTGAGATCGAGGGAGATCTGCAGCCTGCCACACATG
 GCAGCCGCTTTTATTTCTGGACCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG200061 representing NM_014222
 Red=Cloning site Green=Tags(s)

MPGIVELPTLEELKVDEVKISSAVLKAAAHYGAQCDKPNKEFMLCRWEEKDPRRCLEEGKLVNKCALDF
 FRQIKRHCAEPFTEYWTCIDYTGQQLFRHCRKQQAQKDFCEVLDKLGWVRPDLGELSKVTKVKTDRLPEN
 PYHSRPRPDPSPETIEGDLQPATHGSRFYFWTK

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_014222

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).

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_014222.1](#)

RefSeq Size: 859 bp

RefSeq ORF: 519 bp

Locus ID: 4702

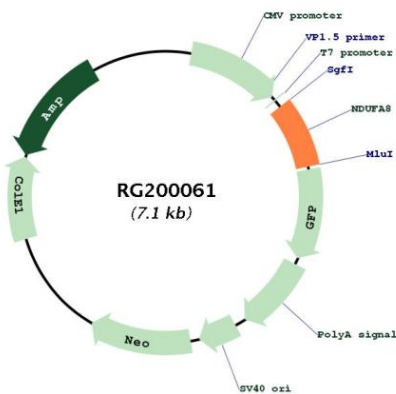
UniProt ID: [P51970](#)

Cytogenetics: 9q33.2

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

Gene Summary: The protein encoded by this gene belongs to the complex I 19 kDa subunit family. Mammalian complex I is composed of 45 different subunits. This protein has NADH dehydrogenase activity and oxidoreductase activity. It plays an important role in transferring electrons from NADH to the respiratory chain. The immediate electron acceptor for the enzyme is believed to be ubiquinone. Alternative splicing of this gene results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Dec 2015]

Product images:



Circular map for RG200061