

Product datasheet for **RG201574**

NDUFB4 (NM_004547) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NDUFB4 (NM_004547) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: NDUFB4
Synonyms: B15; CI-B15
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG201574 representing NM_004547
Red=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGTTCCCAAAGTATAAGCCGTCGAGCCTGCGCACTCTGCCTGAGACCCTCGACCCAGCCGAATACA
ACATATCTCCGAAACCCGGCGGCGCAAGCCGAGCGTTGGCCATAAGAGCCCAGCTGAAACGAGAGTA
CCTGCTTCAGTACAACGATCCCAACCGCCGAGGGCTCATCGAAAATCCTGCCTTGCTTGGGCTAT
GCAAGAACAATAAATGTCTATCCTAATTCAGACCCACTCCTAAAACTCACTCATGGGAGCTCTGTGTG
GATTTGGGCCCTCATCTTCATTTATTATTATCAAACCTGAGAGGGATAGGAAAGAAAACTTATCCA
GAAGGAAAATTGGATCGAACATTTACCTCTCATAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG201574 representing NM_004547
Red=Cloning site **Green**=Tags(s)

MSFPKYKPSLRTLPELTPAEYNI SPETRRQAERLAIRAQLKREYLLQYNDPNRRGLIENPALLRWAY
ARTINVYPNFRPTPKNSLMGALCGFGLIFIYYIIKTERDRKEKLIQEGKLDRTFHLSY

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_004547

ORF Size: 387 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.

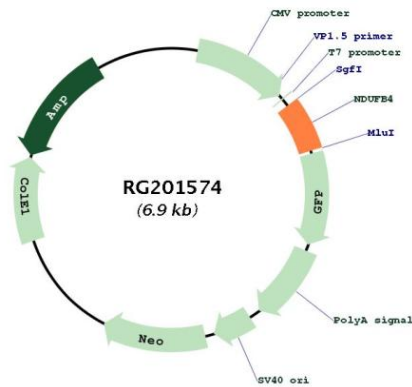
RefSeq: [NM_004547.6](#)

RefSeq Size: 541 bp

RefSeq ORF: 390 bp

Locus ID: 4710
UniProt ID: [O95168](#)
Cytogenetics: 3q13.33
Protein Families: Transmembrane
Protein Pathways: Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease
Gene Summary: This gene encodes a non-catalytic subunit of the multisubunit NADH:ubiquinone oxidoreductase, the first enzyme complex in the mitochondrial electron transport chain (complex I). Mammalian complex I is composed of 45 different subunits and transfers electrons from NADH to ubiquinone. [provided by RefSeq, Dec 2009]

Product images:



Circular map for RG201574