

Product datasheet for **RG224571**

NDUFB1 (NM_004545) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NDUFB1 (NM_004545) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: NDUFB1
Synonyms: CI-MNLL; CI-SGDH; MNLL
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG224571 representing NM_004545
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGATTTGCTGGCGTCACCCCTCTGCTCCGTGCGGGCGCGGAATGGCAGGTCCCAGGTCGCAGCTTC
 CACTGGCGCGGGTTGAGTTCCTGTTGCCCTTGGTCTCGGGTTCGCTGTAGGCGCTGAGGCTGCAGCTAT
 CATGGTGAACCTACTTCAGATTGTGCGGGACCACTGGGTTTCATGTTCTTGTCCCTATGGGATTTGCATT
 GGATGTTATTTAGACAGAAAGAGTGATGAACGGCTAACTGCCTCCGGAACAAGAGTATGTTATTTAAA
 GGAATTGCAACCCAGTGAAGAAGTTACCTGGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG224571 representing NM_004545
 Red=Cloning site Green=Tags(s)
 MICWRHPSAPCGRGEWQVPRSQLPLARVEFPVALGLGVAVGAEAAAIMVNLLQIVRDHWHVHLVPMGFVI
 GCYLDRKSDERLTAFRNKSMLFKRELQPSEEVTK

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_004545

ORF Size: 315 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:

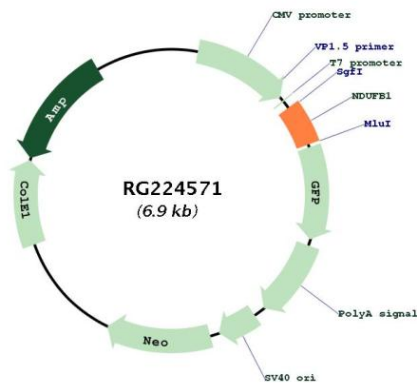
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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_004545.3](#), [NP_004536.2](#)

RefSeq Size: 433 bp

RefSeq ORF: 177 bp

Locus ID: 4707
UniProt ID: [O75438](#)
Cytogenetics: 14q32.12
Protein Families: Transmembrane
Protein Pathways: Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease
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 RG224571