

Product datasheet for **RG208941**

NDUFAB1 (NM_005003) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NDUFAB1 (NM_005003) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: NDUFAB1
Synonyms: ACP; ACP1; FASN2A; SDAP
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG208941 representing NM_005003
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGTCTCGTCTCTTTAGCCTATGTCAGCCGCTGCCCGCGCCTTTGCGCCGCTGCCCGGGTCC
GGATGCTGGCCGTGGCCCGCCTCTCAGCACCGCTCTCTGCTCCGCGGGACCCAGACGAGGCTCGGGAC
TTTGCAGCCGGCCTTAGTCTCGCGCAGGTTCTGGTAGAGTTACACAGTTGTGCCGCCAGTATAGCGAC
ATGCTCCTTTGACGTTAGAGGGCATCCAGGACCGTGTCTTTACGTATTGAAACTCTATGACAAGATTG
ACCCAGAGAAGCTTTCAGTAAATTCTATTTTATGAAAGACCTGGGCTTAGACAGTTTGACCAAGTGA
GATTATCATGGCCATGGAAGACGAATTTGGGTTTAAAATTCCTGATATAGATGCTGAAAAGTTAATGTGT
CCACAAGAAATTGTAGATTACATTGCAGATAAGAAGGATGTATATGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG208941 representing NM_005003
Red=Cloning site Green=Tags(s)
MASRVLSAYVSRPAAFAPLPRVRMLAVARPLSTALCSAGTQTRLGTLQPALVLAQVPGVRTQLCRQYSD
MPPLTLEGIQDRVLYVLKLYDKIDPEKLSVNSHFMKDLGLDSLQVEIIMAMEDEFGFEIPDIDAELKLMC
PQEIVDYIADKKDVYE

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_005003

ORF Size: 468 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_005003.3](#)

RefSeq Size: 804 bp

RefSeq ORF: 471 bp

Locus ID: 4706

UniProt ID: [O14561](#)

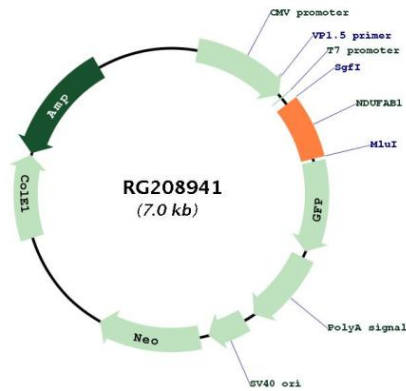
Cytogenetics: 16p12.2

Domains: pp-binding

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

Gene Summary: Carrier of the growing fatty acid chain in fatty acid biosynthesis (By similarity). Accessory and non-catalytic subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I), which functions in the transfer of electrons from NADH to the respiratory chain (PubMed:27626371).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG208941