

Product datasheet for **RG229505**

NDUFC1 (NM_001184991) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NDUFC1 (NM_001184991) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: NDUFC1
Synonyms: KFYI
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG229505 representing NM_001184991
Red=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCCGTCCGCTTGCTGCGTCCCCTTTCCCGGCTGCTGGCCCCGCCAGGCTCCCGAGCGGCCCTT
CAGTGCATCAAAGTTCTACGTGCGAGAGCCGCCGAATGCCAACCTGACTGGCTGAAAGTTGGTTTAC
CTTGGGCACCACTGTCTTCTTGTGGATCTATCTCATCAAACAACAATGAAGATATTTTAGAGTACAAA
AGAAGAAATGGGCTGGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG229505 representing NM_001184991
Red=Cloning site **Green**=Tags(s)

MAPSALLRPLSRLLAPARLPSGPSVRSKFYVREPPNAKPDWLKVGFTLGTTVFLWIYLIKQHNEDILEYK
RRNGLE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

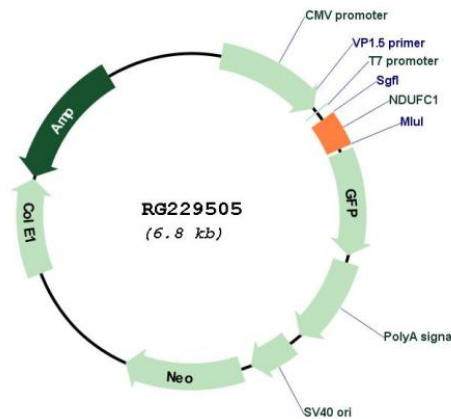


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001184991

ORF Size: 228 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:	<ol style="list-style-type: none">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:	<u>NM_001184991.1</u> , <u>NP_001171920.1</u>
RefSeq Size:	1198 bp
RefSeq ORF:	231 bp
Locus ID:	4717
UniProt ID:	<u>O43677</u>
Cytogenetics:	4q31.1
Protein Pathways:	Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease
Gene Summary:	The encoded protein is a subunit of the NADH:ubiquinone oxidoreductase (complex I), the first enzyme complex in the electron transport chain located in the inner mitochondrial membrane. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2010]