

Product datasheet for **RG231597**

NDUFC2 (NM_001204054) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NDUFC2 (NM_001204054) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: NDUFC2
Synonyms: B14.5b; CI-B14.5b; HLC-1; NADHDH2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG231597 representing NM_001204054
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATCGCACGGCGGAACCCAGAACCCCTTACGGTTTCTGCCGGATGAGGCCCGGAGCCTGCCCCGCCCA
AGCTGACCGACCCGCGGCTCCTCTACATCGGCTTCTGGGCTACTGCTCCGGCCTGATTGATAACCTAAT
CCGGCGGAGGCCGATCGCGACGGCTGGTTGCATCGCCAGCTTCTATATATTACGGCCTTTTTTTTGTCT
GGATATTATCTTGAAAACCTGAAGCTTATGCTAATCTGTATGTTGACACCTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG231597 representing NM_001204054
Red=Cloning site Green=Tags(s)

MIARRNPEPLRFLPDEARSLPPPKLTDPRLLYIGFLGYCSGLIDNLIARRRPIATAGLHRQLLYITAFFFA
GYLVKLEAYANLYVDTL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

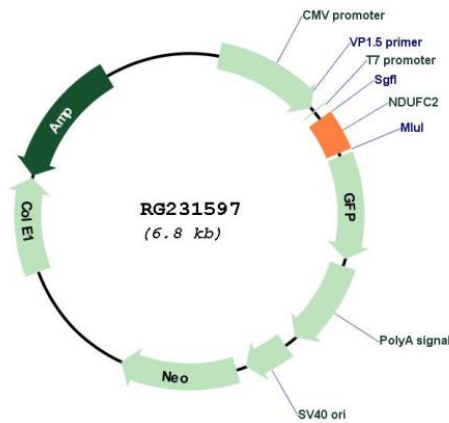


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001204054

ORF Size: 264 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:	NM_001204054.2
RefSeq Size:	2284 bp
RefSeq ORF:	267 bp
Locus ID:	4718
UniProt ID:	O95298
Cytogenetics:	11q14.1
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]