

Product datasheet for **RG200534**

NDUFA7 (NM_005001) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NDUFA7 (NM_005001) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: NDUFA7
Synonyms: B14.5a; CI-B14.5a
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG200534 representing NM_005001
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGTCCGCCACCCGTCTCATCCAGCGGCTGCGGAAC TGGCGTCCGGGCATGACCTGCAGGGGAAGC
TGCAGCTACGCTACCAGGAGATCTCCAAGCGAACTCAGCCTCCTCCCAAGCTCCCTGTGGGTCTAGCCA
CAAGCTCTCCAACAATTACTATTGCACTCGCGATGGCCGCGGAATCTGTGCCCCCTTCCATCATCATG
TCGTGCGAGAAGGCGCTGGTGTGAGGCAAGCCAGCAGAGAGCTCTGCTGTAGCTGCCACTGAGAAGAAGG
CGGTGACTCCAGCTCTCCATAAAGAGGTGGGAGCTGTCTCGGACCAGCCTTACCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG200534 representing NM_005001
Red=Cloning site Green=Tags(s)
MASATRLIQRLRNWASGHDLQGLQLRYQEISKRTQPPPKLPVGP SHKLSNNYYCTRDGRRESVPPSIIM
SSQKALVSGKPAESSAVAATEKKAVTPAPPIKRWELSSDQPYL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_005001

ORF Size: 339 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.

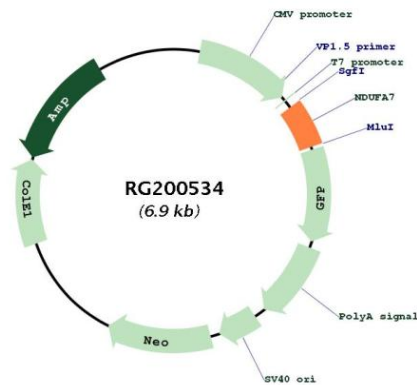
RefSeq: [NM_005001.5](#)

RefSeq Size: 531 bp

RefSeq ORF: 342 bp

Locus ID: 4701
UniProt ID: [O95182](#)
Cytogenetics: 19p13.2
Protein Pathways: Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease
Gene Summary: This gene encodes a subunit of NADH:ubiquinone oxidoreductase (complex I), which is a multiprotein complex located in the inner mitochondrial membrane. Complex I functions in the transfer of electrons from NADH to the respiratory chain. [provided by RefSeq, Mar 2011]

Product images:



Circular map for RG200534