

# **Product datasheet for RG203279**

## NDUFS7 (NM\_024407) Human Tagged ORF Clone

#### **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** NDUFS7 (NM\_024407) Human Tagged ORF Clone

Tag: TurboGFP Symbol: NDUFS7

Synonyms: CI-20; CI-20KD; MC1DN3; MY017; PSST

Mammalian Cell Neomycin

Selection:

Vector:

pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG203279 representing NM\_024407

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

**TACCGCAGG** 

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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### NDUFS7 (NM\_024407) Human Tagged ORF Clone - RG203279

**Protein Sequence:** >RG203279 representing NM\_024407

Red=Cloning site Green=Tags(s)

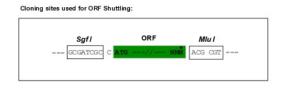
MAVLSAPGLRGFRILGLRSSVGLAVQARGVHQSVATDGPSSTQPALPKARAVAPKPSSRGEYVVAKLDDL VNWARRSSLWPMTFGLACCAVEMMHMAAPRYDMDRFGVVFRASPRQSDVMIVAGTLTNKMAPALRKVYDQ MPEPRYVVSMGSCANGGGYYHYSYSVVRGCDRIVPVDIYIPGCPPTAEALLYGILQLQRKIKRERRLQIW YRR

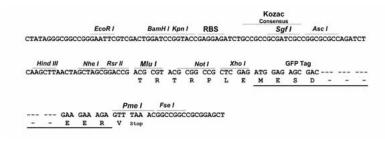
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

**Cloning Scheme:** 





**ACCN:** NM\_024407

ORF Size: 639 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: <u>NM 024407.3</u>, <u>NP 077718.2</u>

 RefSeq Size:
 787 bp

 RefSeq ORF:
 642 bp

 Locus ID:
 374291

 UniProt ID:
 075251

 Cytogenetics:
 19p13.3

**Domains:** oxidored\_q6

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

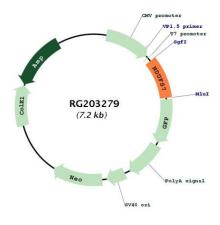
Parkinson's disease

**Gene Summary:** This gene encodes a protein that is a subunit of one of the complexes that forms the

mitochondrial respiratory chain. This protein is one of over 40 subunits found in complex I, the nicotinamide adenine dinucleotide (NADH):ubiquinone oxidoreductase. This complex functions in the transfer of electrons from NADH to the respiratory chain, and ubiquinone is believed to be the immediate electron acceptor for the enzyme. Mutations in this gene cause Leigh syndrome due to mitochondrial complex I deficiency, a severe neurological disorder that results in bilaterally symmetrical necrotic lesions in subcortical brain regions. [provided

by RefSeq, Jul 2008]

# **Product images:**



Circular map for RG203279