

Product datasheet for **RG202529**

NDUFAF7 (NM_144736) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NDUFAF7 (NM_144736) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NDUFAF7
Synonyms:	C2orf56; MidA; PRO1853
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202529 representing NM_144736 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTGTACTGCTGAGGTCAGGTTTGGGGCCGTTGTGTGCCGTGGCGCGCGCAGCCATTCTTTTATTT
GGAGAGGGAAATACTTCAGCTCCGGGAATGAGCCTGCAGAAAACCCGGTGACGCCGATGCTGCGGCATCT
TATGTACAAAATAAAGTCTACTGGTCCCATCACTGTGGCCGAGTACATGAAGGAGGTGTTGACTAATCCA
GCCAAGGGTTATTATGTGTACCGTGACATGCTAGGCGAAAAAGGAGATTTCACTACTTCACCTGAAATAA
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CCCAGCAGAAGCCTTCATACAACATGACGAAACAAGGGATCATGTTGAAGTGTGCTGATGCTGGTGT
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AACAGCAGATCTAACAGCTGATGTGGAATTCAGTTATTTGCGAAGAATGGCACAGGAAAAAGTAGCCTCT
CTGGGCCCAATAAAACAACACATTTTTAAAAAATATGGGTATTGATGTCCGGCTGAAGGTTCTTTTAG
ATAAATCAATGAGCCATCAGTGAGGCAGCAGTTACTTCAAGGATATGATATGTTAATGAATCCAAAGAA
GATGGGAGAGAGATTTAACTTTTTTGCCTTGCTACCTCATCAGAGACTTCAAGGTGGAAGATATCAGAGG
AATGCACGTCAGTCAAAACCTTTGCATCCGTTGTAGCTGGGTTAGTGAAGTGGCTTGGCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >RG202529 representing NM_144736
 Red=Cloning site Green=Tags(s)

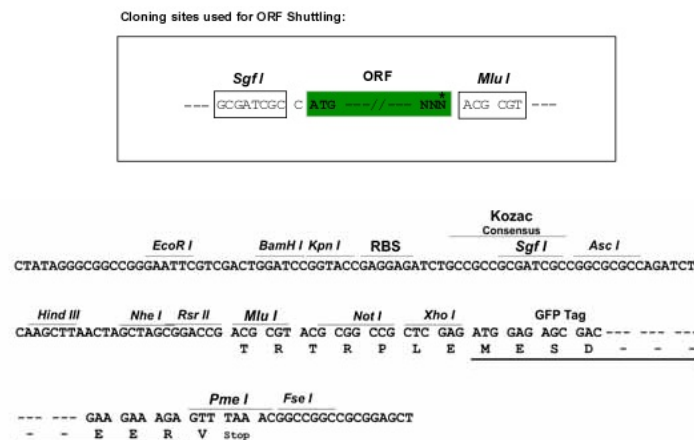
MSVLLRSGLGPLCAVARAAIPFIWRGKYFSSGNEPAENPVTPMLRHLMYKIKSTGPITVAEYMKEVLTNP
 AKGYYVYRDMLEKGDFTSPEISQIFGELLGIWFI SEWMATGKSTAFQLVELGPGRGTLVGDILRVFTQ
 LGSVLKNCDISVHLVEVSQKLSEIQALTLTKEKVPLERNAGSPVYMKGVTKSGIPI SWYRDLHDVPKGYS
 FYLAHEFFDVL PVHKFQKTPQGWREVFDIDPQVSDKLRFLAPSATPAEAFIQHDETRDHVEVCPDAGV
 IIEELSQRIALTGGAALVADYGHGDKTKDTFRGFCDHKLHDVLIAPGTADLTADVDFSYLRMRMAQKQVAS
 LGPIKQHTFLKNMGIDVRLKVLLDKSNEPSVRQQLLQGYDMLMNPCKMGERFNFFALLPHQRLQGGRYQR
 NARQSKPFASVVAGFSELAWQ

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_144736

ORF Size: 1323 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_144736.5](#)

RefSeq Size: 2205 bp

RefSeq ORF: 1326 bp

Locus ID: 55471

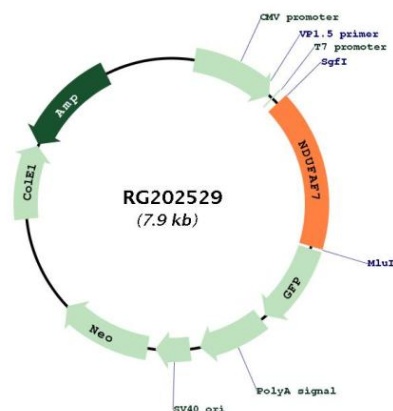
UniProt ID: [Q7L592](#)

Cytogenetics: 2p22.2

Domains: DUF185

Gene Summary: This gene encodes an assembly factor protein which helps in the assembly and stabilization of Complex I, a large multi-subunit enzyme in the mitochondrial respiratory chain. Complex I is involved in several physiological activities in the cell, including metabolite transport and ATP synthesis. The encoded protein is a methyltransferase which methylates Arg85 of a subunit of Complex I in the early stages of its assembly. A pseudogene related to this gene is located on chromosome 8. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2016]

Product images:



Circular map for RG202529