

Product datasheet for **RG217754**

NDUF3 (NDUFAF3) (NM_199073) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NDUF3 (NDUFAF3) (NM_199073) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: NDUFAF3
Synonyms: 2P1; C3orf60; E3-3; MC1DN18
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG217754 representing NM_199073
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTACATCGACAGCTACAACAGCCGGCTTCATGATAAACGGAAACCGCGTGCTCGGCCCTGCGCTC
TGCTCCCGCACTCGGTGGTGCAGTGAACGTGGGATCCCACCAGGACATCACCGAAGACAGCTTTCCCT
CTTCTGGTTGCTGGAGCCCCGGATAGAGATCGTGGTGGTGGGACTGGAGACCGGACCGAGAGGCTGCAG
TCCCAGGTGCTTCAAGCCATGAGGCAGCGGGCATTGCTGTGGAAGTGCAGGACACGCCCAATGCCTGTG
CCACCTTCAACTCCTGTGTGATGAAGCCGAGTAAGTGGAGCTGCTCTCATCCCTCCACCAGGAGGAC
TCACTTACATCTTTGGCCAAGCTGCTCAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG217754 representing NM_199073
Red=Cloning site Green=Tags(s)
MYIDSYNSRGMINGNRVLGPCALLPHSVVQWNVGSHQDITEDSFSLFWLLEPRIEIVVVGTDGDRTERLQ
SQVLQAMRQRGIAVEVQDTPNACATFNFLCHEGRVTGAALIPPPGGTSLTSLGQAAQ

TRTRPLE - GFP Tag - V

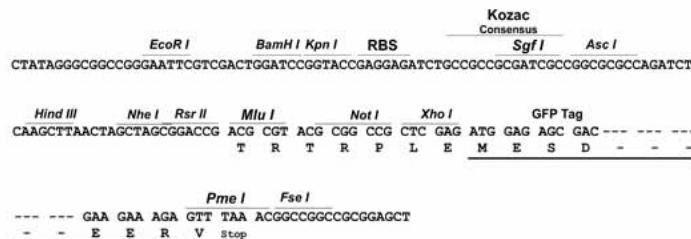
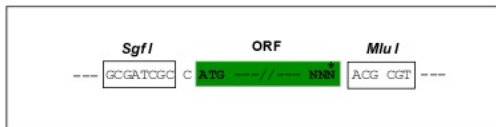
Restriction Sites: Sgfl-MluI



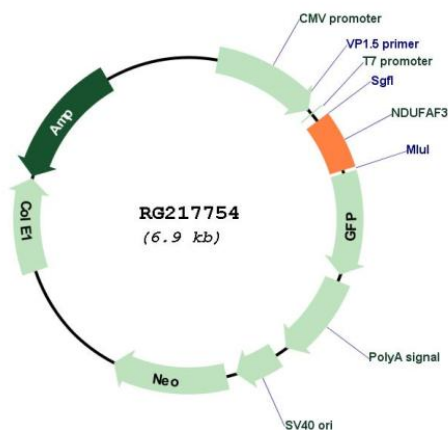
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Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_199073

ORF Size: 381 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_199073.1</u> , <u>NP_951047.1</u>
RefSeq Size:	1021 bp
RefSeq ORF:	384 bp
Locus ID:	25915
Cytogenetics:	3p21.31
Gene Summary:	This gene encodes a mitochondrial complex I assembly protein that interacts with complex I subunits. Mutations in this gene cause mitochondrial complex I deficiency, a fatal neonatal disorder of the oxidative phosphorylation system. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2009]