

Product datasheet for **RG214816**

NDUFAF6 (NM_152416) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	NDUFAF6
Synonyms:	C8orf38; FRTS5; MC1DN17
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG214816 representing NM_152416
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCCTCCGCGCACGGCTCTGTCTGGGGGCCGTTGCGGCTTGGCATCCCCGGCCTGTGCTGCCGCC
GGCCGCCTCTGGGTCTGTACGCGCGCATGCGCGGCTGCCCGGGCCGGAGGTGTCTGGGCGGAGCGTGCC
TGCGGCCAGCGGACCGGGCGCCTGGGGCACTGACCACTACTGCCTGGAGCTGCTGCGAAACGGGATTAT
GAAGGTTATTTATGCTCCCTGCTGCTCCCTGCAGAATCCGAAGCTCTGTTTTGCACTGAGGGCCTTTA
ATGTGGAAGTGGCTCAGGTAAAGACTCAGTCTCTGAGAAAACAATTGGACTGATGCGAATGCAGTTTTG
GAAAAAACTGTGGAAGATATATACTGTGACAATCCACCACATCAGCCTGTGGCCATTGAACTATGGAAG
GCTGTTAAAGACATAATCTGACTAAAAGATGGCTTATGAAAATCGTCGATGAAAGAGAAAAAATCTGG
ATGACAAAGCATATCGTAATATCAAGGAAGTGGAAAATATGCTGAAAACACACAGAGCTCTCTTTTA
CTTAACACTAGAAATATTGGGTATAAAGGATCTTCATGCAGATCATGCTGCAAGTCATATTGAAAAAGCA
CAAGGCATTGTCACTTGCTTGAGAGCAACACCATATCATGGGAGCAGAAGAAAGGTGTTCTCTCCCATGG
ATATTTGTATGCTGCATGGTGTTCACAAGAGGACTTTCTACGGAGGAACCAAGATAAAAAATGTGAGAGA
TGTAATATATGACATTGCCAGTCAAGCACACTTGCACCTAAAGCATGCTAGGTCCTTTCACAAAAGTGT
CCTGTGAAAGCATTTCCTGCTTTTCTTCAGACGGTTTCTCTAGAGGACTTCTAAAGAAAATTACGCGAG
TGGATTTTGATATATCCACCCATCTTTACAGCAGAAGAATACATTACTTCCATTATATTTGTATATTCA
GTCATGGAGAAAAACATAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG214816 representing NM_152416
Red=Cloning site Green=Tags(s)

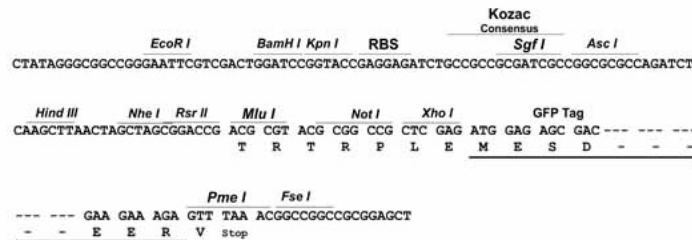
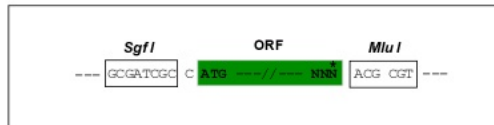
MAASAHGSVWGPLRLGIPGLCCRRPPLGLYARMRLPGPEVSGRSVAAASGPGAWGTDHYCLELLRKRKY
EGYLCSTLLPAESRSSVFALRAFNVLAQVKDSVSEKTIGLMRMQFWKKTVEDIYCDNPPHQPVAIELWK
AVKRHNLTKRWLMKIVDEREKNLDDKAYRNIKELENYAENTQSSLLYL TLEILGIKDLHADHAASHIGKA
QGIVTCLRATPYHGSRRKVFLPMDICMLHGVSQEDFLRRNQDKNVRDVIYDIASQAHHLKHARSFHKT
PVKAFFAFLQTVSLEDFLKKIQRVDFDIFHPSLQQKNTLLPLYLYIQSWRKY

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_152416

ORF Size: 999 bp

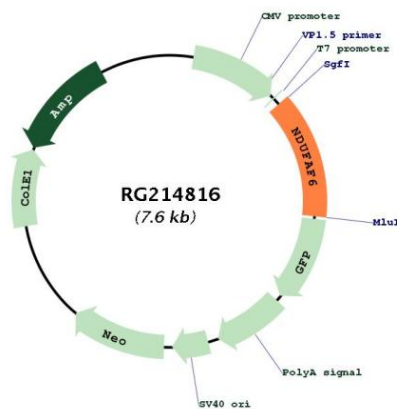
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<u>NM_152416.4</u>
RefSeq Size:	1808 bp
RefSeq ORF:	1002 bp
Locus ID:	137682
UniProt ID:	<u>Q330K2</u>
Cytogenetics:	8q22.1
Gene Summary:	This gene encodes a protein that localizes to mitochondria and contains a predicted phytoene synthase domain. The encoded protein plays an important role in the assembly of complex I (NADH-ubiquinone oxidoreductase) of the mitochondrial respiratory chain through regulation of subunit ND1 biogenesis. Mutations in this gene are associated with complex I enzymatic deficiency. [provided by RefSeq, Nov 2011]

Product images:



Circular map for RG214816