

## Product datasheet for **RG236348**

### NDUFA5 (NM\_001291304) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NDUFA5 (NM_001291304) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NDUFA5
Synonyms:	B13; CI-13kB; CI-13KD-B; NUFM; UQOR13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG236348 representing NM_001291304. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGGGTTTGACCTTGTGTCCAGGCTGGTTTCAAACCTCTGAGTTCGAGCAATCTACCCACCTTCAA
AGTGTGGGATCACAGATATTTTACCATTACAATATAGATGGAGATTTTCATCTATTAATAAAAGATGT
TCTCTATTCACAAATGGAAATGGAGCAACAGTACACAATTTCTGCCCCAGAATTCATGGCTGGTGCAGA
TGGAAATATTGGCATAGTTCAGAGGAGTTAAAGGACTCACCCAGGCCGTACAGCTGAGGCTAAGAATA
TTGTACACAAAGATTCTTGATGTTCTTGAGGAAATCCCTAAAAATGCAGCATATAGAAAGTATACAGAA
CAGATTACAAATGAGAAGCTGGCTATGGTTAAAGCGGAACCAGATGTTAAAAAATTAGAAGACCAACTT
CAAGGCGGTCAATTAGAAGAGGTGATTCTTCAGGCTGAACATGAACTAAATCTGGCAAGAAAAATGAGG
GAATGGAAACTATGGGAGCCATTAGTGAAGAGCCTCCTGCCGATCAGTGGAATGGCCAATA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence:	>Peptide sequence encoded by RG236348 Blue=ORF Red=Cloning site Green=Tag(s)
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MGFDLVVQAGFKLLSSSNLPTLQSVGITDILPLQYRWRFSINKRCSLFTNGNGATVHNFCPRIHWCR
WKYWHSSRGVKGLTQAVQLRLRILYTKILDVLEEIPKNAAYRKYTEQITNEKLMVKAEPDVKKLEDQL
QGGQLEEVILQAEHELNLARKMREWKLWEPLVEEPPADQWKWPI
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLVHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
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Restriction Sites:	SgfI-MluI
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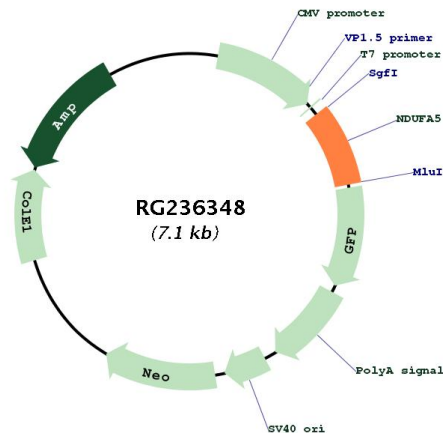


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_001291304

ORF Size: 546 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.

<b>Components:</b>	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).
<b>RefSeq:</b>	<u>NM_001291304.1, NP_001278233.1</u>
<b>RefSeq Size:</b>	5776 bp
<b>RefSeq ORF:</b>	549 bp
<b>Locus ID:</b>	4698
<b>Cytogenetics:</b>	7q31.32
<b>Protein Pathways:</b>	Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease
<b>MW:</b>	21.7 kDa
<b>Gene Summary:</b>	This nuclear gene encodes a conserved protein that comprises the B13 subunit of complex I of the mitochondrial respiratory chain. The encoded protein localizes to the inner mitochondrial membrane, where it is thought to aid in the transfer of electrons from NADH to ubiquinone. Alternative splicing results in multiple transcript variants. There are numerous pseudogenes of this gene on chromosomes 1, 3, 6, 8, 9, 11, 12, and 16. [provided by RefSeq, Apr 2014]