

## Product datasheet for **RG235698**

### NDUFA5 (NM\_001282421) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** NDUFA5 (NM\_001282421) 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:** >RG235698 representing NM\_001282421.  
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCCTTACCGGACCACTGGCCTTGTTGGGATTGGCTGTGTGCAATACTCCTCACGAGAGGCTAAGAATA
TTGTACACAAAGATTCTTGATGTTCTTGAGGAAATCCCTAAAAATGCAGCATATAGAAAGTACAGAA
CAGATTACAAATGAGAAGCTGGCTATGGTTAAAGCGGAACCAGATGTTAAAAAATTAGAAGACCACTT
CAAGGCGGTCAATTAGAAGAGGTATTCTTCAGGCTGAACATGAATAAATCTGGCAAGAAAAATGAGG
GAATGAAACTATGGGAGCCATTAGTGAAGAGCCTCCTGCCGATCAGTGAAATGGCCAATA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

**Protein Sequence:** >Peptide sequence encoded by RG235698  
Blue=ORF Red=Cloning site Green=Tag(s)

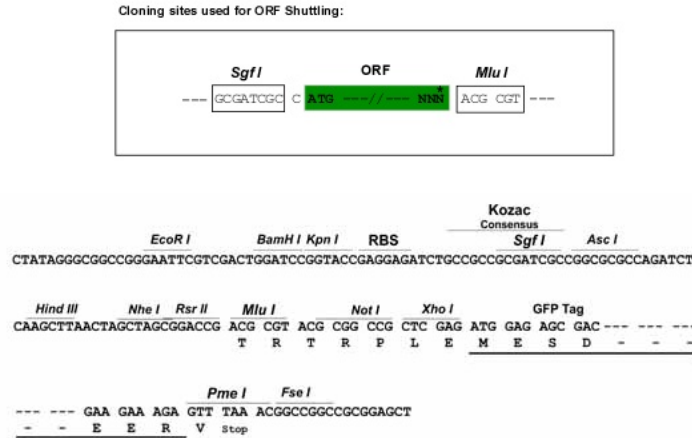
```
MPYRRTGLVGLAVCNTPHERLRILYTKILDVLEEIPKNAAYRKYTEQITNEKLMVKAEPDVKKLEDQL
QGGQLEEVILQAEHELNLARKMREWKLEPLVEEPPADQWKWPI
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:** SgfI-MluI

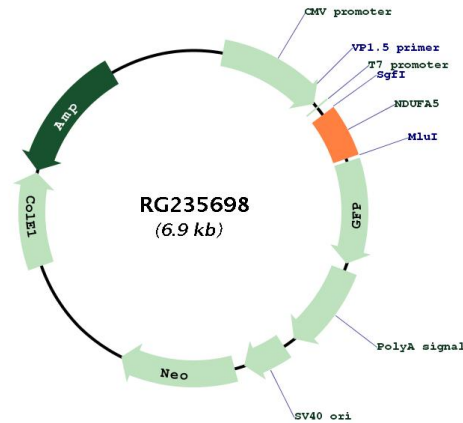


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_001282421

ORF Size: 339 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](#)

<b>OTI Annotation:</b>	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>	<a href="#">NM_001282421.2</a> , <a href="#">NP_001269350.1</a>
<b>RefSeq Size:</b>	5610 bp
<b>RefSeq ORF:</b>	342 bp
<b>Locus ID:</b>	4698
<b>UniProt ID:</b>	<a href="#">Q16718</a>
<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>	13.7 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]