

## Product datasheet for **RG233254**

### NDUFB3 (NM\_001257102) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** NDUFB3 (NM\_001257102) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** NDUFB3  
**Synonyms:** B12; CI-B12; MC1DN25  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG233254 representing NM\_001257102  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCCATGAACATGGACATGAGCATGGACATCATAAAATGGAACCTCCAGATTATAGACAATGGAAGA  
TAGAAGGGACACCATTAGAACTATCCAGAAGAAGCTGGCTGCAAAGGGCTAAGGGATCCATGGGCGG  
CAATGAAGCTTGGAGATACATGGTGGCTTTGCAAAGAGTGTTCCTTTCTGATGTATTCTTTAAAGGA  
TTCAAATGGGGATTTGCTGCATTTGTGGTAGCTGTAGGAGCTGAATATTACCTGGAGTCCCTGAATAAAG  
ATAAGAAGCATCAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG233254 representing NM\_001257102  
Red=Cloning site Green=Tags(s)  
MAHEHGHEGHKMELPDYRQWKIEGTPLETIQKKLAAKGLRDPWGRNEAWRYMGGFAKSVSFDVFFKG  
FKWGFAAFVVAVGAEYYLESLNKDKKHH

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

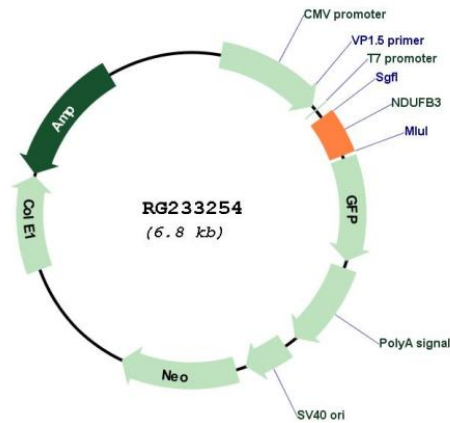


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_001257102

ORF Size: 294 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>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>                                    |
| <b>RefSeq:</b>                | <u><a href="#">NM_001257102.2</a></u>  |
| <b>RefSeq Size:</b>           | 793 bp   |
| <b>RefSeq ORF:</b>            | 297 bp   |
| <b>Locus ID:</b>              | 4709   |
| <b>UniProt ID:</b>            | <u><a href="#">O43676</a></u>  |
| <b>Cytogenetics:</b>          | 2q33.1   |
| <b>Protein Families:</b>      | Transmembrane  |
| <b>Protein Pathways:</b>      | Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease  |
| <b>Gene Summary:</b>          | This gene encodes an accessory subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I) which is the first enzyme in the electron transport chain of mitochondria. This protein localizes to the inner membrane of the mitochondrion as a single-pass membrane protein. Mutations in this gene contribute to mitochondrial complex 1 deficiency. Alternative splicing results in multiple transcript variants encoding the same protein. Humans have multiple pseudogenes of this gene. [provided by RefSeq, Mar 2012] |