

## Product datasheet for **RG207108**

### NDUFS6 (NM\_004553) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** NDUFS6 (NM\_004553) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** NDUFS6  
**Synonyms:** CI-13kA; CI-13kD-A; CI13KDA; MC1DN9  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG207108 representing NM\_004553  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGGCGCGGATGACCTTCTGCCGGCTGCTGAACCGGTGTGGCGAGGCGGCGGAGCCTGCCCTGG  
 GCGCCAGGTGTTTCGGGGTGC GGCTCTCGCCGACCGGGGAGAAGGTCACGCACACTGGCCAGGTTTATGA  
 TGATAAAGACTACAGGAGAATTCGGTTTGTAGGTCGTAGAAAGAGGTGAATGAAAACCTTGCCATTGAT  
 TTGATAGCAGAGCAGCCCGTGAAGGAGGTGGAGACTCGGGTGTAGCGTGCATGGCGGCGGGGAGCTC  
 TTGGCCACCCAAAAGTGTATATAAACTTGACAAAGAAACAAAACCGGCACATGCGGTTACTGTGGCT  
 CCAGTTCAGACAGCACCACCAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG207108 representing NM\_004553  
 Red=Cloning site Green=Tags(s)  
 MAAAMTFCRLLNRCGEAARSLPLGARCFGVRVSPTEKVTHTGQVYDDKDYRRIRFVGRQKEVNENFAID  
 LIAEQPVSEVETRVIACDGGGALGHPKVYINLDKETKTGTCGYCGLQFRQH

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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Cloning Scheme:



ACCN: NM\_004553

ORF Size: 372 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.

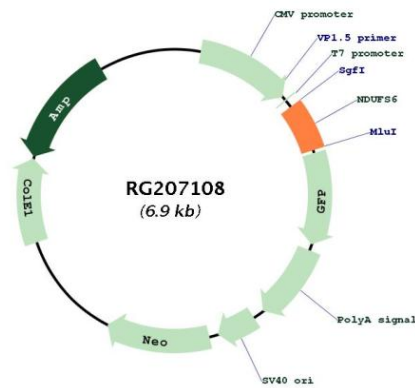
RefSeq: [NM\\_004553.6](#)

RefSeq Size: 750 bp

**RefSeq ORF:** 375 bp  
**Locus ID:** 4726  
**UniProt ID:** [O75380](#)  
**Cytogenetics:** 5p15.33  
**Protein Pathways:** Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease

**Gene Summary:** This gene encodes a subunit of the NADH:ubiquinone oxidoreductase (complex I), which is the first enzyme complex in the electron transport chain of mitochondria. This complex functions in the transfer of electrons from NADH to the respiratory chain. The subunit encoded by this gene is one of seven subunits in the iron-sulfur protein fraction. Mutations in this gene cause mitochondrial complex I deficiency, a disease that causes a wide variety of clinical disorders, including neonatal disease and adult-onset neurodegenerative disorders. [provided by RefSeq, Oct 2009]

**Product images:**



Circular map for RG207108