

## Product datasheet for **RG202915**

### NDUFV3 (NM\_021075) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NDUFV3 (NM_021075) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NDUFV3
Synonyms:	CI-9KD; CI-10k
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG202915 representing NM\_021075  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTGCCCCGTGTTTGTCTGCGCAAGGACGAGCCGGGCGCTGAAGACTATGCTCCAGGAAGCCAGG  
 TGTTTCGAGGACTTGCTTCTACGTTTCTTTGTCTGCGGAATCAGGGAAGAGTGAAGAGGTCAGCCACA  
 GAATTCCAAGAAGCAAAGTCCACCAAAAAATGTAGTGAAACCAAGGAGAGGGGCAAGCTCCTAGCCACC  
 CAGACAGCAGCTGAATTGTCTAAAACTTATCTTCACCCAGTTCTTACCCGCCAGCTGTGAATAAGGGCA  
 GGAAGGTAGTAGTCCCAGTCCCAGTGGCAGCGTGCTATTACAGATGAAGGGTTCCGAAATTTTGTG  
 AAGAAAGACTTTGGTAGAGTTTCCACAGAAAGTTCTGTCTCCATTAGAAAACAGGGCTCTGATTCAGAA  
 GCTCGTCAGGTGGTTCGAAAGTACGTCGCCTTCGTCTTCATCCTCGTCCAGCTCCTCTGATTCTGAAT  
 CTGATGATGAGGCTGACGTTTCAGAGGTCCTCCTCGAGTGGTGAGCAAAGGCAGAGGGGGCTTCGAAA  
 ACCAGAGGCTCTCATTCTTTGAAAACAGAGCCCCCGAGTTACAGTATCAGCAAAAGAGAAAACCTTG  
 CTGCAGAAAGCCGATGTGGACATTAAGTATCCAGAGAAGCCCCACCAGCCAAAGAAGAAAGGGTCCCTG  
 CTAAGCCATCAGAAGGCAGGGAATGCGAGACCAAAACCAATGCCAGATCTCAAGTAGATGAAGA  
 GTTTTTGAAGCAAAGTTAAAGGAAAAACAATTGCAGAAAACATTTAGATTAATGAAATAGATAAGAA  
 AGCCAAAAGCCATTTGAAGTTAAAGGACCTTACCTGTCCACACAAAATCAGGGTTGTCTGCGCCACCGA  
 AGGGCAGCCAGCGCCTGCTGTGTTGGCAGAAGAGGCCAGAGCAGAGGGGCGAGCTGCAAGCCAGTCTCC  
 TGGGGCGCAGAGGGGCTCTGGAAAAACCCGTGCCAGAGCCCCAGCGCAAGGCGGCCCTCCCTGCC  
 AGAAAGGAAACCTCAGGGACGCAGGGAATAGAAGGCCACCTGAAGGTTGGACAGGCAATCGTGAAGATC  
 AGATACCAAGCAATTTGAGACAGTTCCTGTTGAGAATAACCACGGTTTCCATGAAAAGACAGCAGC  
 GCTGAAGCTTGAGCCGAGGGCGAGGCCATGGAAGATGCAGCCGCGCCAGGGAACGACCCGAGGGCGCAC  
 CAGGAGCCAGCCAGTGCCTGTGAGCCGTTTGAACAACACTACCTACAAGAACCTGCAGCATCATGACT  
 ACAGCACGTACACCTTCTTAGACCTCAACCTCGAACTCTCAAATTCAGGATGCCTCAGCCCTCCTCAGG  
 CCGGGAGTCACCTCGACAC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG202915 representing NM\_021075  
 Red=Cloning site Green=Tags(s)

MAAPCLLRQGRAGALKTMLQEAQVFRGLASTVLSAESGKSEKQPPQNSKKQSPPKNVVEPKERKLLAT  
 QTAAELSKNLSPPSSYPYPAVNGRKRKVASPSPSGSVLFTDEGVPKFLSRKTLVEFPQKVLSPFRKQGS  
 ARQVGRKVTSPSSSSSSSSDSESDDEADVSEVTPRVVSKGRGGLRKPEASHSFENRAPRVTVSAKEKTL  
 LQKPHVDITDPEKPHQPKKKGSPAKPSEGRENARPKTTMPRSQVDEEFLKQSLKEKQLQKTFRLNEIDKE  
 SQKPFVKGPLPVHTKSLGAPPKGPAPAVLAEEARAEGQLQASPPGAAEGHLEKPVPEPQRKAAPPLP  
 RKETSGTQIEGHLKGGQAIVEDQIPPSNLETVPVENNHGFHEKTAALKLEAEGEAMEDAAAPGNDRGGT  
 QEPAPVPAEPFDNTTYKNLQHDYSTYFLDLNLELSKFRMPQPSSGRESRPH

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_021075

**ORF Size:** 1419 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.

**RefSeq:** [NM\\_021075.3](#), [NP\\_066553.3](#)

**RefSeq Size:** 2151 bp

**RefSeq ORF:** 1422 bp

**Locus ID:** 4731

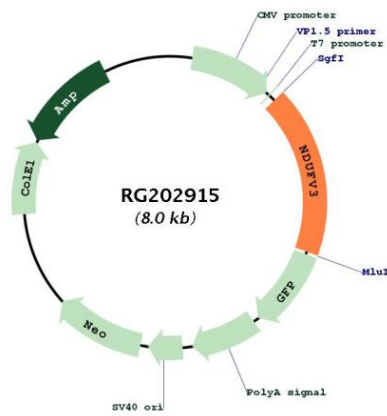
**UniProt ID:** [P56181](#)

**Cytogenetics:** 21q22.3

**Protein Pathways:** Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease

**Gene Summary:** The protein encoded by this gene is one of at least forty-one subunits that make up the NADH-ubiquinone oxidoreductase complex. This complex is part of the mitochondrial respiratory chain and serves to catalyze the rotenone-sensitive oxidation of NADH and the reduction of ubiquinone. The encoded protein is one of three proteins found in the flavoprotein fraction of the complex. The specific function of the encoded protein is unknown. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG202915