

Product datasheet for **RG221209**

NDUFA6 (NM_002490) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NDUFA6 (NM_002490) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: NDUFA6
Synonyms: B14; CI-B14; LYRM6; MC1DN33; NADHB14
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG221209 representing NM_002490
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGAAAAGACATTCGCCCGGGTCCGCACGCGCTGCTTGCAAAGGGTGGGGTTGTGGAGTGGATGCT
TTGGCAAGATGGCGGGGAGCGCGTCCGCCAAGCTACTTCTACCGCCAGCACCTTCGTGAAGCCATTTT
CAGTCGGGACATGAACGAGGCCAAGCGGAGGTGCGCGAGCTCTACCGCGCTGGTATCGGGAGGTGCCG
AACACTGTGCACCAATTCAGCTGGACATCACTGTGAAAATGGGACGGGATAAAGTCCGAGAAATGTTTA
TGAAGAATGCCCATGTACAGACCCAGGGTGGTTGATCTTCTGGTCATTAAGGGAAAGATCGAACTGGA
AGAAACAATTAAGTATGGAAGCAGCGGACACATGTTATGCGGTTCTTCCATGAAACAGAAGCGCCAAGG
CCAAAGGATTTCTATCCAAGTTCTATGTTGGCCACGATCCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG221209 representing NM_002490
Red=Cloning site Green=Tags(s)

MKDIRPRSARAACKGVGLWSGCFGKMGSGVRQATSTASTFVKPIFSRDMNEAKRRVRELYRAWYREVP
NTVHQFQLDITVKMGRDKVREMFMKNAHVTDPRVVDLLVIKKGIELEETIKVWKQRTHVMRFFHETEAPR
PKDFLSKFYVGHDP

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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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:	<ol style="list-style-type: none">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:	<u>NM_002490.4</u>
RefSeq Size:	1202 bp
RefSeq ORF:	387 bp
Locus ID:	4700
UniProt ID:	<u>P56556</u>
Cytogenetics:	22q13.2
Protein Pathways:	Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease
Gene Summary:	This gene encodes a member of the LYR family of proteins that contain a highly conserved tripeptide (LYR) motif near the N-terminus. The encoded protein is an accessory subunit of NADH: ubiquinone oxidoreductase (Complex I), which is the largest enzyme of the mitochondrial membrane respiratory chain. Complex I functions in electron transfer from NADH to the respiratory chain. [provided by RefSeq, Oct 2016]