

Product datasheet for **RG203464**

NDUFA9 (NM_005002) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NDUFA9 (NM_005002) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NDUFA9
Synonyms:	CC6; CI-39k; CI39k; COQ11; MC1DN26; NDUFS2L; SDR22E1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203464 representing NM_005002 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCTGCCGACAATCCCGGGTTGTCCGGTCTGTCAATGTCACGTTCTGCCATTACTGCAATAG
CCACATCTGTGTGTACGGCCACCCTGTCCGAGTTCATCATGCCCTCATGCCCTATGGGAAAGGTGG
ACGTTCTCAGTCAGTGGGATTGTGGCCACTGTGTTGGAGCAACAGGATTCCTGGGGCGATATGTTGTC
AACCACCTTGACGCATGGGTACAGGTAATCATACCCTATCGGTGTGATAAATATGACATCATGCACC
TTCGTCCCATGGGTGACCTGGCCAGCTTCTGTTTCTGGAATGGGACGCGAGAGATAAAGATTCTATCCG
ACGAGTAGTACAACACAGCAATGTGGTCAATCTTATTGGACGAGACTGGGAAACAAAACTTTGAT
TTTGAGGATGTTTTGTGAAGATTCCCCAAGCAATTGCTCAACTGTCCAAGGAAGCTGGAGTTGAAAAAT
TCATTCATGTTTCACATCTGAATGCGAATATTAAGGCTCTTCTAGATATTTGAGAAATAAGGCTGTTGG
AGAGAAAGTAGTGAAGATGCAATTCGGAAAGCCATTATCGTAAAGCCGTCGGACATCTTTGGAAGAGAG
GATAGATTCCTAATCTTTGCAAGTATGCATCGGTTGGTCTATACCCCTTGTTTCTTTGGGCTGGA
AGACAGTTAAACAACCAGTATATGTCGTAGATGTCAAAGGAATTGTTAATGCAGTTAAGGATCCTGA
TGCCAAATGGGAAATCCTTTGCTTTGCTTGGTCCAGTCCGTACCTCTTTCCACCTGGTGAAGTACATC
TTTGCTGGCTCACAGATTGTTCTCCATCCCTTGGCCTTTTGCCTATCGATGGGTAGCAAGAG
TCTTTGAAATAAGCCATTTGAGCCCTGGATAACAAGGATAAAGTGGAGCGGATGCACATCACAGACAT
GAAATTGCCTCACCTGCCTGGCTTAGAAGACCTTGGTATTCAGGCAACACCCTGGAACCTCAAGGCCATT
GAGGTGCTGCGGCGTCATCGCACTTACCCTGGCTGTCTGCTGAAATTGAGGATGTGAAGCCGGCCAAGA
CCGTCAACATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG203464 representing NM_005002
 Red=Cloning site Green=Tags(s)

MAAAAQSRVVRVLSMSRSAITAIATSVCHGPPCRQLHHALMPHGKGRSSVSGIVATVFGATGFLGRYVV
 NHLGRMGSQVIIPYRCDKYDIMHLRPMGDLGQLLFLEWDARDKDSIRRVVQHSNVVINLIGRDWETKNFD
 FEDVFKIPQAIQLSKEAGVEKFIHVSHLNANIKSSSRYLNRKAVGEKVVRDAFPEAIIVKPSDIFGRE
 DRFLNSFASMHRFGPIPLGSLGWKTVKQPYYVVDVSKGI VNAVKDPDANGKSFVFGPSRYLLFHLVKYI
 FAVAHRLFLPFPLPLFAYRWVARVFEISPFEPWITRDKVERMHIITDMKLPPLGLEDLGIQATPLELKAI
 EVLRRHRTYRWLSAEIEDVKPAKTVNI

TRTRPLE - GFP Tag - V

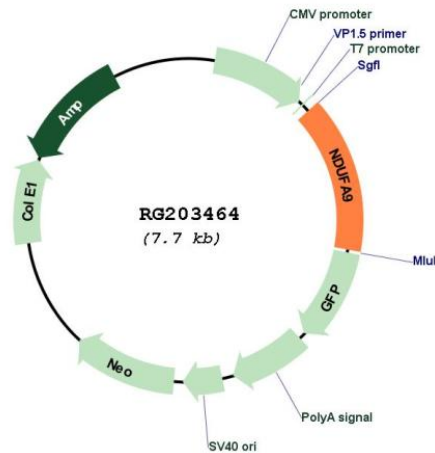
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_005002

ORF Size:	1131 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:	<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:	NM_005002.5
RefSeq Size:	1334 bp
RefSeq ORF:	1134 bp
Locus ID:	4704
UniProt ID:	Q16795
Cytogenetics:	12p13.32
Protein Pathways:	Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease
Gene Summary:	The encoded protein is a subunit of the hydrophobic protein fraction of the NADH:ubiquinone oxidoreductase (complex I), the first enzyme complex in the electron transport chain located in the inner mitochondrial membrane. A pseudogene has been identified on chromosome 12. [provided by RefSeq, May 2010]