

Product datasheet for **RG236114**

NDUFB8 (NM_001284368) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NDUFB8 (NM_001284368) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NDUFB8
Synonyms:	ASHI; CI-ASHI; MC1DN32
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG236114 representing NM_001284368. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTACTATAGGGCCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGACCAAGGACATGTTCCCGGGCCCTATCCTAGGACCCAGAAGAACGGGCCGCCGCCCAAGAAG
TATAATATGCGTGTGGAAGACTACGAACCTTACCCGGATGATGGCATGGGGTATGGCGACTACCCGAAG
CTCCCTGACCGCTCACAGCATGAGAGATCCATGGTATAGCTGGGACCAGCCGGGCCTGAGGTTGAAC
TGGGGTGAACCGATGCACTGGCACCTAGACATGTACAACAGGAACCGTGTGGATACATCCCCACACCT
GTTTCTTGGCATGTCATGTGTATGCAGCTCTTCGGTTTCCTGGCTTTCATGATATTCATGTGCTGGGTG
GGGACGTGTACCCTGTCTACCAGCCTGTGGACCAAAGCAGTATCCTTACAATAATCTGTACCTGGAA
CGAGGCGGTGATCCCTCAAAGAACCAGAGCGGGTGGTTCACTATGAGATC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG236114
Blue=ORF Red=Cloning site Green=Tag(s)

```
MTKDMFPGYPRTPEERAAAKKYNMRVEDYEPYPDDGMGYGDYPKLPDRSQHERDPWYSWDQPGLRLN
WGEPMHWHLDMYNRNRVDTSPTPVSWHVMCMQLFGFLAFMIFMCVWGDVYPVYQPVGPKQYPYNNLYLE
RGGDPSKEPERVVHYEI
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPYSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: SgfI-MluI

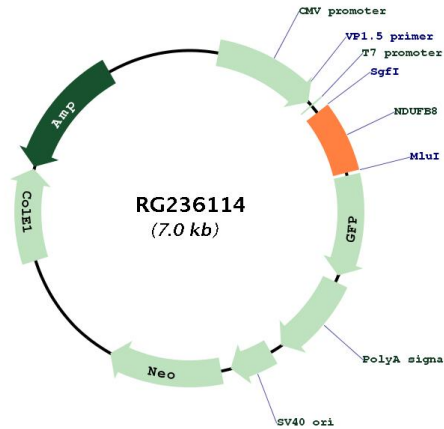


[View online »](#)

Cloning Scheme:



Plasmid Map:



ACCN: NM_001284368

ORF Size: 465 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).
RefSeq:	NM_001284368.1 , NP_001271297.1
RefSeq Size:	667 bp
RefSeq ORF:	468 bp
Locus ID:	4714
UniProt ID:	O95169
Cytogenetics:	10q24.31
Protein Families:	Transmembrane
Protein Pathways:	Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease
MW:	18.9 kDa
Gene Summary:	Accessory subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I), that is believed not to be involved in catalysis. Complex I functions in the transfer of electrons from NADH to the respiratory chain. The immediate electron acceptor for the enzyme is believed to be ubiquinone.[UniProtKB/Swiss-Prot Function]