

Product datasheet for RC236258

NDUFB8 (NM_001284367) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NDUFB8 (NM_001284367) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: NDUFB8
Synonyms: ASHI; CI-ASHI; MC1DN32
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC236258 representing NM_001284367
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGTGGCCAGGGCCGGGTCTTGGGAGTCCAGTGGCTGCAAAGGGCATCCCGAACGTGATGCCGC
 TGGCGCACGGACAGCCTCCACATGACCAAGGACATGTTCCCGGGCCCTATCCTAGGACCCAGAAGA
 ACGGGCCCGCCGCCAAGAAGTATAATATGCGTGTGGAAGACTACGAACCTTACCGGATGATGGCATG
 GGGTATGGCGACTACCGAAGCTCCCTGACCGCTCACAGCATGAGAGAGATCCATGGTATAGCTGGGACC
 AGCCGGGCTGAGGTTGAACTGGGTGAACCGATGCACTGGCACCTAGACATGTACAACAGGAACCGTGT
 GGATACATCCCCACACCTGTTTCTTGGCATGTATGTATGCAGCTCTTCGGTTTCTGGCTTTCATG
 ATATTCATGTGCTGGGTGGGGACGTGTACCCTGTCTACCAGCCTGTGTGTAGGCACCACTTCTCTTACA
 ATTTAGGCTTCTCTCTGCCTTGGGC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC236258 representing NM_001284367
 Red=Cloning site Green=Tags(s)

MAVARAGVLGVQWLQRASRNVMLGARTASHMTKDMFPGPYPRTPPEERAAAAKYNMRVEDYEPYPDDGM
 GYGDYPKLPDRSQHERDPWYSWDQPLRLNWGEPMHWHLDMYNRNRVDTSPTPVSWHVMCMQLFGFLAFM
 IFMCWVGDVYPVYQPVCRHHFSYNLGFLSALG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

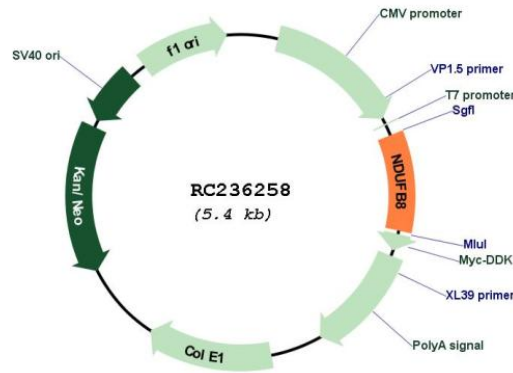


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001284367

ORF Size: 516 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:	<u>NM_001284367.1</u> , <u>NP_001271296.1</u>
RefSeq Size:	968 bp
RefSeq ORF:	519 bp
Locus ID:	4714
UniProt ID:	<u>O95169</u>
Cytogenetics:	10q24.31
Protein Families:	Transmembrane
Protein Pathways:	Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease
MW:	20.5 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]