

Product datasheet for **RR212663**

Ndufa9 (NM_001100752) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ndufa9 (NM_001100752) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ndufa9
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR212663 representing NM_001100752
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCGGCCCGCCGTCGCTTTCCAGTTGTTAGAGCGCTTCCAATGTCACGTCCTGCCATTTCTGCAGCAG
CCACATCTGTGTCTGCAGCTCATCCCATCGCCAGCTTACCATGCTGTCATACCTCATGGGAAAGGTGG
CCGCTCATCCGTCAGTGGAGTTGTGCCACCGTTCGGAGCAACAGGCTTCTGGGTCGATACGTTGTC
AACCATCTTGGACGAATGGGGTCACAAGTGATCATACCATATCGGTGCGATATATATGACACCATGCACC
TTCGTCTAATGGGTGACCTGGGCCAGCTTATCTTTCTGGAGTGGGATGCTCGAGACAAGGATTCTATCAG
GAAAGCAGTGCAGCACAGCAATGTGGTCATCAATCTCATTGGGCGGGAGTGGGAGACCAGAACTTTGAT
TTTGAGGATGTTTTGTGAATATCCTCGAGCAATAGCTCAGGCATCCAAGGAAGCTGGGTTGAGAGAT
TCATTCATGTCTCACACTTGAATGCCAGTATGAAGAGTTCTGCTAAGTCACTGAGAAGCAAGGCAGTGGG
AGAGAAGGAAGTGAAGTGTGTTTCTGATGCCATCATACGACCATCTGACATGTTTCGGAAGGGAG
GACAGGTTCTCAACCACTTTGCAAATTATCGTTGGTTTCTTGTGTGCCTCTCGTTTCTTTGGGCTTTA
AGACAGTGAACAACCAGTATATGTTGCAGATGTTTCCAAGGGATTGCTAACCGGACTAAAAATCCAGA
TGCCATAGGAAAAACCTTTGCCTTACCAGGCAAAATCGGTACCTGCTCTTCCACTTGGTGAAGTACATC
TTTGGCATGACCCACAGGACCTTATCCCTTACCCTTGGCCACGGTTTGTGTATAGCTGGATTGGCAGAC
TCTTCGGGCTGAGTCCATTTGAGCCCTGGACAACAAAGGACAAGGTGGAGCGGATACATATCTCAGATGT
GATGGCGACCGACCTGCCCGGCTGGAAGATCTTGGCGTTCAGCCACACCCTGGAGCTCAAGTCCATC
GAGGTGCTCCGGCGACATCGCACTTACCCTGGCTGTCTTCTGAGATCGAGGAAACCAAGCTGCCAAGA
CAGTCAACTAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR212663 representing NM_001100752
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MAAAVRFQVVRALPMSRPAISAAATSVFCSSSHRQLHHAVIPHGKGRSSVSGVVATVFGATGFLGRYVV
 NHLGRMGSQVIIPYRCDIYDTMHLRLMGDLGQLIFLEWDARDKDSIRKAVQHSNVVINLIGREWETRNFD
 FEDVFNIPRAIAQASKEAGVERFIHVSHLNASMKSSAKSLRSKAVGEKEVRTVFPDAIIIRPSDMFGRE
 DRFLNHFANYRWFLAVPLVSLGFKTVKQPYYVADVSKGIANATKNPDAIGKTFAFGTGPNRYLLFHLVKYI
 FGMTHRTFIPYPLPRFVYVSWIGRLFGLSPFEPWTTKDKVERIHISDVMATDLPGLLEDLGVQPTPLELKSI
 EVLRRHRTYRWLSSEIEETKPAKTVNY

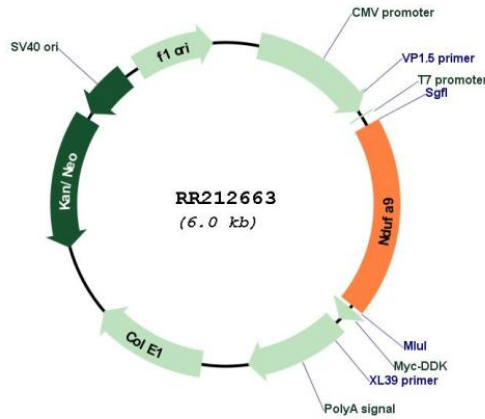
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001100752

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_001100752.1 , NP_001094222.1
RefSeq Size:	1289 bp
RefSeq ORF:	1134 bp
Locus ID:	362440
UniProt ID:	Q5BK63
Cytogenetics:	4q42
MW:	42.6 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]