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Product datasheet for RR210512

Ndufs2 (NM_001011907) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ndufs2 (NM_001011907) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ndufs2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR210512 representing NM_001011907 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCGGCCCTCAGGGCTGTGTGCAGCCTCCGCGGTGTCGGGGCCCAGGTGCTGCGGGCCGGGTCTGGGA TTCGTCTGCCGAGTCAGCCCAGCAGAGGTGCTCGGCGATGGCAGCCAGATATAGAATGGGCAGAGCAGTT TTCGGGAGCTGTCATGTATCCCTCCAAGGAAACAGCCCACTGGAAACCTCCTCCTTGGAATGATGTGGAT GTTTTGAAGGAGAAAGTGGTGACCAACGTGACCCTGAACTTTGGGCCCCAGCACCCAGCAGCTCATGGAG TCCTGAGACTCGTGCTGGAATTGAGTGGAGAGATGGTGCGGAAATGTGACCCTCACATCGGGCTCCTACA CCGAGGCACGGAGAAGCTCATCGAGTACAAGACCTATCTGCAGGCCCTTCCATATTTTGACCGGTTGGAC TATGTGTCCATGATGTGTAATGAACAGGCGTATTCACTAGCTGTGGAGAAGTTGCTAAACATCCAGCCTC CTCCCCGGGCGCAGTGGATCCGAGTGCTCTTTGGAGAGATCACACGGATTTTAAACCATATCATGGCTGT CACCACACATGCCCTGGACATTGGTGCCATGACGCCTTTCTTCTGGATGTTTGAAGAAAGGGAGAAGATG TTCGAGTTCTATGAGCGGGTGTCTGGAGCCCGTATGCATGCTGCTTATATCCGACCAGGAGGAGTGCACC AGGACCTACCTCTTGGGCTTATGGATGACATTTATGAATTTTCCAAGAACTTCTCTCTTCGGATTGATGA GGTGGAGGAGATGCTGACCAACAATAGAATCTGGCGAAATAGGACAGTCGACATTGGGGTTGTATCTGCA GAAGATGCACTGAACTATGGATTCAGTGGAGTGATGCTCCGAGGCTCAGGCATCCAGTGGGACTTGCGGA AGACCCAGCCATATGATGTTTACGACCAGGTGGAGTTTGATGTTCCTATTGGTTCTCGAGGGGACTGCTA CGATAGGTATCTGTGTCGTGTGGAAGAGATGCGCCAGTCCCTTCGAATCATCGAACAGTGTCTGAACAAG ATGCCGCCGGGGGAGATCAAGGTTGATGACGCCAAAGTGTCCCCACCTAAACGAGCAGAGATGAAGACGT CCATGGAGTCACTAATTCATCACTTTAAGCTGTATACTGAGGGCTACCAAGTTCCTCCAGGAGCCACATA CACCGCCATTGAAGCTCCTAAGGGCGAGTTTGGGGTGTACTTGGTATCTGATGGCAGCAGCCGACCTTAT CGGTGTAAGATCAAGGCTCCCGGTTTTGCCCACCTGGCAGGTTTGGACAAGATGTCTAAAGGACACATGC TGGCAGATGTCGTAGCCATCATAGGCACCCAGGATATTGTATTTGGAGAAATAGACCGA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

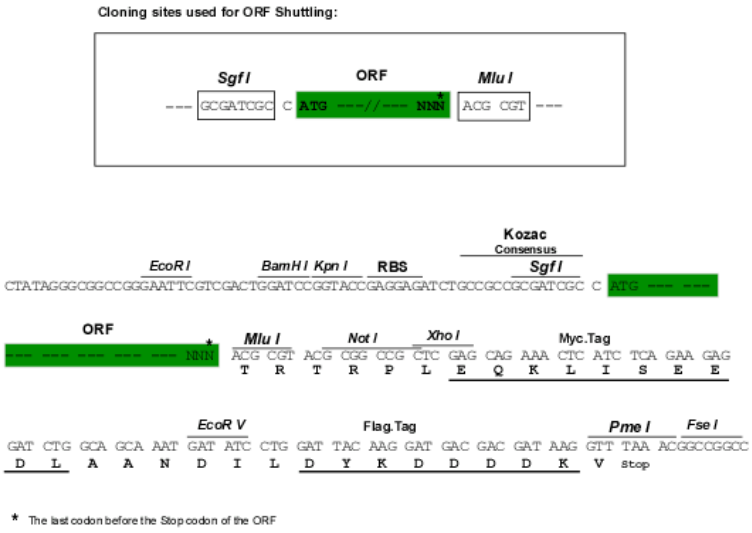
>RR210512 representing NM_001011907
Red=Cloning site Green=Tags(s)

MAALRAVCSLRGVGAQVLRAGSGIRLPSQPSRGARRWQPDIEWAEQFSGAVMYPSKETAHWKPPPWNDVD
VLKEKVVTNVTLNFGPQHPAAHGVLRLVLELSGEMVRKCDPHIGLLHRGTEKLIEYKTYLQALPYFDRLD
YVSMMCNEQAYSLAVEKLLNIQPPPRAQWIRVLFGEITRILNHIMAVTTHALDIGAMTPFFWMFEEREKM
FEFYERVSGARMHAAYIRPGGVHQDLPLGLMDDIYEFSKNFSLRIDEVEEMLTNNRIWRNRTVDIGVVSA
EDALNYGFSGVMLRGSGIQWDLRKTQPYDVYDQVEFDVPIGSRGDCYDRYLCRVEEMRQSLRIIEQCLNK
MPPGEIKVDDAKVSPPKRAEMKTSMESLIHHFKLYTEGYQVPPGATYTAIEAPKGEFGVYLVSDGSSRPY
RCKIKAPGFAHLAGLDKMSKGHMLADVVAIIGTQDIVFGEIDR

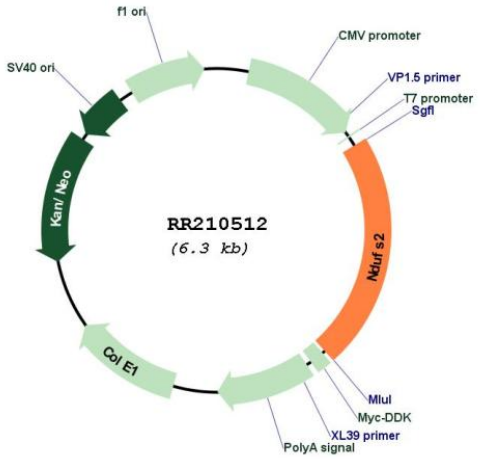
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001011907
ORF Size:	1389 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:	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_001011907.1, NP_001011907.1
RefSeq Size:	1612 bp
RefSeq ORF:	1392 bp
Locus ID:	289218
UniProt ID:	Q641Y2
Cytogenetics:	13q24
MW:	52.6 kDa
Gene Summary:	Core subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I) that is believed to belong to the minimal assembly required for 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]