

Product datasheet for **RN210512**

Ndufs2 (NM_001011907) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ndufs2 (NM_001011907) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Ndufs2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN210512 representing NM_001011907 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCCCTCAGGGCTGTGTGCAGCCTCCGCGGTGTCGGGGCCAGGTGCTGCGGGCCGGTCTGGGA
TTCGCTGCGCGAGTCAGCCAGCAGAGGTGCTCGGCGATGGCAGCCAGATATAGAATGGCAGAGCAGTT
TTCGGGAGCTGTCATGTATCCCTCCAAGGAAACAGCCCACTGAAACCTCCTCCTTGAATGATGTGGAT
GTTTTGAAGGAGAAAGTGGTGACCAACGTGACCCTGAACCTTGGGCCCCAGCACCCAGCAGCTCATGGAG
TCCTGAGACTCGTGTGAATTGAGTGGAGAGATGGTGCGGAAATGTGACCCTCACATCGGGCTCTTACA
CCGAGGCACGGAGAAGCTCATCGAGTACAAGACCTATCTGCAGGCCCTTCCATATTTGACCGGTTGGAC
TATGTGTCCATGATGTGAATGAACAGGCGTATCACTAGCTGTGGAGAAGTTGCTAAACATCCAGCCTC
CTCCCCGGGCGCAGTGGATCCGAGTGCTCTTGGAGAGATCACACGATTTTAAACCATATCATGGCTGT
CACCACACATGCCCTGGACATTGGTGCCATGACGCCTTTCTTCTGGATGTTTGAAGAAAGGGAGAAGATG
TTCGAGTTCTATGAGCGGGTGTCTGGAGCCGATGCATGCTGCTTATATCCGACCAGGAGGAGTGCACC
AGGACCTACCTCTTGGGCTTATGGATGACATTTATGAATTTTCCAAGAACTTCTCTCTTCGGATTGATGA
GGTGGAGGAGATGCTGACCAACAATAGAATCTGGCGAAAATAGGACAGTGCACATTGGGGTTGTATCTGCA
GAAGATGCACTGAACTATGGATTCACTGGAGTGTGCTCCGAGGCTCAGGCATCCAGTGGGACTTGCAGGA
AGACCCAGCCATATGATGTTTACGACCAGGTGGAGTTTGTGTTCTATTGGTTCTCGAGGGGACTGCTA
CGATAGGTATCTGTGCTGTGGAAAGAGATGCGCCAGTCCCTTCGAATCATCGAACAGTGTCTGAACAAG
ATGCCCGCGGGGAGATCAAGTTGATGACGCCAAAGTGTCCCCACCTAAACGAGCAGAGATGAAGACGT
CCATGGAGTCACTAATTCATCACTTTAAGCTGTATACTGAGGGCTACCAAGTTCCTCCAGGAGCCACATA
CAGCCGATTGAAGCTCCTAAGGGCGAGTTTGGGGTGTACTTGGTATCTGATGGCAGCAGCCGACCTTAT
CGGTGTAAGATCAAGGCTCCCGGTTTGGCCACCTGGCAGGTTTGGACAAGATGTCTAAAGACACATGC
TGGCAGATGTCGTAGCCATCATAGGCACCCAGGATATTGTATTTGGAGAAATAGACCGATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001011907
Insert Size:	1392 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_001011907.1, NP_001011907.1</u>
RefSeq Size:	1612 bp
RefSeq ORF:	1392 bp
Locus ID:	289218
UniProt ID:	<u>Q641Y2</u>
Cytogenetics:	13q24
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]