OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RN212687

Ndufs1 (NM_001005550) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ndufs1 (NM_001005550) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Ndufs1
Synonyms:	MGC93795
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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Fully Sequenced ORF:

>RN212687 representing NM_001005550
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTAAGGATACCTGTAAAAAGGGCCTTGATAGGCCTTTCTAAGTCTCCTAAAGGATATGTTCGATCAA
CTGGCACAGCAGCAAGTAACTTGATTGAAGTATTTGTTGATGGTCAGTCTGTCATGGTGGAACCAGGAAC
CACTGTCCTGCAGGCCTGCGAGAAGGTTGGCATGCAAATCCCTCGATTCTGTTACCATGAAAGGTTGTCT
GTAGCTGGAAATTGCAGGATGTGCCTGGTAGAGATTGAGAAAGCTCCAAAGGTTGTTGCTGCTTGTGCTA
TGCCTGTTATGAAGGGCTGGAATATCCTGACAAACTCAGAAAAATCTAAGAAAGCCAGAGAAGGTGTGAT
GGAGTTTTTATTAGCAAATCACCCATTGGATTGTCCTATTTGTGACCAGGGAGGTGAATGTGATCTACAG
GACCAGTCCATGATGTTTGGAAGTGATAGGAGCCGATTTCTAGAGGGGAAGCGTGCTGTGGAGGACAAGA
ACATTGGGCCCCTGGTAAAGACCATCATGACTAGATGCATACAGTGTACCCGCTGCATCAGGTTTGCAAG
TGAAATTGCAGGAGTAGATGATTTGGGAACAACGGGGAGAGGAAATGACATGCAAGTTGGAACATACATT
GAGAAAATGTTCATGTCTGAACTGTCTGGGAACATCATTGATATCTGCCCTGTCGGGGCCCTAACCTCTA
AGCCTTATGCCTTTACTGCCCGGCCTTGGGAAACAAGAAAGACAGAGTCCATTGATGTAATGGATGCAGT
GGGAAGTAACATTGTGGTTAGCACAAGAACTGGAGAGGTAATGAGGATTTTGCCAAGAATGCATGAAGAT
ATTAATGAAGAATGGATCTCTGATAAAACCAGATTTGCCTATGATGGACTGAAACGGCAAAGACTTACCG
AACCAATGGTCAGAAATGAAAAGGGGCTTTTAACTTATACCTCCTGGGAAGATGCACTCTCTCGTGTAGC
TGGAATGTTACAGAGTTTTGAAGGCAAGGCTGTGGCAGCAATTGCAGGTGGCTTGGTGGATGCTGAAGCC
TTGGTAGCTCTGAAAGATTTGCTTAATAAAGTTGACTCTGACACCTTATGCACTGAAGAGATCTTCCCCA
ATGAAGGAGCTGGCACAGATTTACGTTCCAATTATCTTCTCAATACCACAATTGCCGGTGTGGAAGAAGC
AGATGTTGTTCTTCTAGTTGGTACAAATCCACGTTTTGAGGCACCGCTGTTTAATGCTAGAATCAGAAAG
AGCTGGCTGCATAATGACTTAAAAGTGGCCCTAATAGGCAGTCCAGTAGACCTCACTTACAGATACGACC
ATCTAGGAGACTCTCCCAAAATTCTGCAAGACATTGCTTCAGGGAATCATGAATTCAGCAAGGTCTTAAA
CGCAGCTAAAAAACCAATGGTGGTTTTAGGCAGTTCTGCACTCCAGAGAGATGATGGGGCAGCAATTCTT
GCAGCTGTGTCCAGCATTGCACAAAAGATTCGGGTGGCAAGTGGTGCTGCTGCAGAGTGGAAAGTTATGA
ATATTCTGCATAGGATTGCAAGCCAGGTAGCTGCTTTGGACCTTGGCTATAAACCTGGGGTAGAAGCAAT
TAGGAAGAACCCACCCAAACTGCTGTTTCTTCTGGGAGCAGATGGAGGTTGTATCACCCGGCAGGACTTG
CCAAAGGATTGTTTCATTGTTTATCAAGGACATCATGGTGATGTTGGTGCTCCCATAGCTGATGTTATTC
TCCCAGGGGCTGCTTACACAGAAAAGTCTGCTACTTACGTCAATACTGAGGGCAGAGCTCAACAAACCAA
AGTAGCAGTGACACCTCCTGGCTTGGCAAGAGAAGACTGGAAAATCATAAGAGCTCTCTCTGAGATTGCA
GGTATCACTCTCCCATATGATACTCTGGATCAAGTGAGAAACCGTCTCGGAGAAGTCTCTCCTAACCTGG
TTCGATATGATGATGTTGAAGAAGCTAATTACTTTCAACAAGCAAGTGAGCTTGCCAAGCTAGTAGACCA
GGAATTTCTTGCTGACCCACTGGTTCCACCTCAGCTAACTATAAAAGACTTCTATATGACAGATTCAATT
AGCAGAGCCTCACAGACAATGGCCAAGTGTGTCAAAGCCGTCACAGAAGGCGCTCAGGCAGTAGAGGAGC
CATCCATATGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001005550

Insert Size: 2184 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:	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_001005550.1, NP_001005550.1
RefSeq Size:	2519 bp
RefSeq ORF:	2184 bp
Locus ID:	301458
UniProt ID:	Q66HF1
Cytogenetics:	9q32
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 (By similarity). This is the largest subunit of complex I and it is a component of the iron-sulfur (IP) fragment of the enzyme. It may form part of the active site crevice where NADH is oxidized (By similarity). [UniProtKB/Swiss-Prot Function]