NDUFA8 cDNA Clone – NADH Dehydrogenase

PRODUCT OVERVIEW

Product Name	NDUFA8, cDNA Clone
Full Product Name	NDUFA8
Product Gene Name	NDUFA8 cdna clone
Product Synonym Names	CI-19KD; CI-PGIV; PGIV
Sequence	Nucleotide Sequence: ATGCCGGGGA TAGTGGAGCT GCCCACTCTA GAGGAGCTGA AAGTAGATGA GGTGAAAATT AGTTCTGCTG TGCTTAAAGC TGCGGCCCAT CACTATGGAG CTCAATGTGA TAAGCCCAAC AAGGAGTTTA TGCTCTGCCG CTGGGAAGAG AAAGATCCGA GGCGGTGTTT AGAGGAAGGC AAACTGGTCA ACAAGTGTGC TTTGGACTTC TTTAGGCAGA TAAAACGTCA CTGTGCAGAG CCTTTTACAG AATATTGGAC TTGCATTGAT TATACTGGCC AGCAGTTATT TCGTCACTGT CGCAAACAGC AGGCAAAGTT TGACGAGTGT GTGCTGGACA AACTGGGCTG GGTGCGGCCT GACCTGGGAG AACTGTCAAA GGTCACCAAA GTGAAAACAG ATCGACCTTT ACCGGAGAAT CCCTATCACT CAAGACCAAG ACCGGATCCC AGCCCTGAGA TCGAGGGAGA TCTGCAGCCT GCCACACATG GCAGCCGCTT TTATTTCTGG ACCAAGTAA< br> Tra nslation Sequence: MPGIVELPTL EELKVDEVKI SSAVLKAAAH HYGAQCDKPN KEFMLCRWEE KDPRRCLEEG KLVNKCALDF FRQIKRHCAE PFTEYWTCID YTGQQLFRHC RKQQAKFDEC VLDKLGWVRP DLGELSKVTK VKTDRPLPEN PYHSRPRPDP SPEIEGDLQP ATHGSRFYFW TK
Form/Format	Lyophilized
Preparation and Storage	Store the plasmid at -20 degree C.
OMIM	603359
3D Structure	ModBase 3D Structure for P51970
Species	Human
Chromosome Location	9q33.2
OMIM Reference Number	603359
cDNA Size	519bp
Vector Description	This shuttle vector contains the complete ORF. It is inseted Nde I to Xho I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.
Vector	(puc19-derived cloning vector)
Preparation Before Usage	1. Centrifuge at 7000rpm for 1 minute. 2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA. Each tube contains approximately 10ug of lyophilized plasmid.
Product Categories/Family for NDUFA8 cdna clone	Signal Transduction
Related Product Information for NDUFA8 cdna clone	NDUFA8 belongs to the complex I 19 kDA subunit family. Mammalian complex I is composed of 45 different subunits. This has NADH dehydrogenase activity and oxidoreductase activity. It plays an important role in transfering electrons from NADH to the respiratory chain. The immediate electron acceptor for the enzyme is believed to be ubiquinone.
Other Notes	Small volumes of NDUFA8 cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for NDUFA8 purchase	MBS200791 is a cDNA clone targeting NDUFA8.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NDUFA8. It may not necessarily be applicable to this product.

NCBI GI #	7657369
NCBI GeneID	4702
NCBI Accession #	NP_055037.1
UniProt Primary Accession #	P51970
UniProt Related Accession #	P51970
GenBank Nucleotide #	NM_014222.2
NCBI Official Full Name	NADH dehydrogenase
NCBI Official Synonym Full Names	NADH:ubiquinone oxidoreductase subunit A8
NCBI Official Symbol	NDUFA8
NCBI Official Synonym Symbols	PGIV; CI-19KD; CI-PGIV
UniProt Protein Name	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 8
UniProt Synonym Protein Names	Complex I-19kD; CI-19kD; Complex I-PGIV; CI-PGIV; NADH-ubiquinone oxidoreductase 19 kDa subunit
Protein Family	NADH dehydrogenase
UniProt Gene Name	NDUFA8
UniProt Synonym Gene Names	CI-19kD; CI-PGIV
UniProt Entry Name	NDUA8_HUMAN
NCBI Protein Information	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 8
NCBI Summary for NDUFA8	The protein encoded by this gene belongs to the complex I 19 kDa subunit family. Mammalian complex I is composed of 45 different subunits. This protein has NADH dehydrogenase activity and oxidoreductase activity. It plays an important role in transfering electrons from NADH to the respiratory chain. The immediate electron acceptor for the enzyme is believed to be ubiquinone. Alternative splicing of this gene results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Dec 2015]
UniProt Comments for NDUFA8	NDUFA8: 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. Belongs to the complex I NDUFA8 subunit family. Protein type: Mitochondrial; Energy Metabolism - oxidative phosphorylation; EC 1.6.5.3; EC 1.6.99.3; Oxidoreductase Chromosomal Location of Human Ortholog: 9q33.2 Cellular Component: mitochondrion; mitochondrial inner membrane; mitochondrial intermembrane space; mitochondrial respiratory chain complex I Molecular Function: NADH dehydrogenase (ubiquinone) activity; protein complex binding Biological Process: cellular metabolic process; mitochondrial electron transport, NADH to ubiquinone
Research Articles on NDUFA8	**1.** Intra-molecular disulfide bridges and the inter-membrane space localization of three Cx(9)C-containing subunits in human: NDUFS5, NDUFB7 and NDUFA8, are proposed.
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