

Product datasheet for MR228537

Ndufs8 (NM_001271443) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Ndufs8 (NM_001271443) Mouse Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Ndufs8
 Synonyms: BC021616; Cl-23kD; TYKY
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 ORF Nucleotide Sequence: >MR228537 representing NM_001271443
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGTATCGCCTGAGCTCATCAATGCTGCCACGGGCCTTGGCCCAGGCCATGCGCACAGGACATCTTAATG
 GACAAAGCCTTCATAGCAGCGCAGTGGCGGCAACGTACAAGTATGTGAATAAGAAGGAACAGGAGTCTGA
 GGTGGACATGAAGTCCGCAACTGACAATGCAGCTCGGATTCTGATGTGGACAGAAGTCACTCCGAGGACTG
 GGCATGACCCTAAGTTACCTCTTTCGAGAGCCTGCCACCATCACTACCCCTTTGAGAAGGGCCCACTGA
 GTCCGCGCTTCCGTGGGAGCATGCACTGCGCCGCTACCCATCTGGAGAGGAGCGTTGCATTGCCTGCAA
 ACTCTGTGAGGCCATCTGTCCTGCACAGGCCATCACCATTTGAGGCTGAGCCAAGAGCCGATGGCAGCCGC
 CGAACGACACGCTATGACATCGACATGACCAAGTGATCTACTGTGGTTTCTGCCAGGAAGCCTGCCTG
 TTGATGCCATTGTGGAGGGCCCAACTTCGAGTTCTCCACCGAGACACAGGAGTTGCTGTACAACAA
 GGAGAAGCTACTCAACAATGGAGACAAGTGGGAGGCCGAGATCGCTGCCAACATCCAGGCTGACTACCTG
 TACCGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR228537 representing NM_001271443
Red=Cloning site Green=Tags(s)

MYRLSSSMLPRALAQAMRTGHLNGQSLHSSAVAATYKYVKNKEQESEVDMKSATDNAARILMWTELIRGL
 GMTLSYLFREPATINYPFEKGPLSPFRFGEHALRRYPSGEERCIACKLCEAICPAQAITIEAEPRADGSR
 RTTRYDIDMTKCIYCGFCQEACPVDIAIVEGPNFEFSTETHEELLYNKEKLLNNGDKWEAIEAANIQADYL
 YR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001271443

ORF Size: 636 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_001271443.1](#), [NP_001258372.1](#)

RefSeq Size: 814 bp

RefSeq ORF: 639 bp

Locus ID: 225887

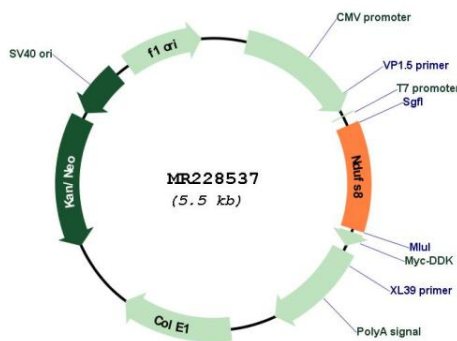
UniProt ID: [Q8K3J1](#)

Cytogenetics: 19 A

MW: 24 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 (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR228537