

Product datasheet for MR224673

Ndufaf2 (NM_001127346) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ndufaf2 (NM_001127346) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ndufaf2
Synonyms: 1810058I14Rik; C86051; mimitin; Ndufa12l
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR224673 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGCTGGTGGTCCGGTGTGTGGCGCTCTGTTTGGAGCGCCTTGTCAGGGAGGTGAGGGAGCACGTGG
 GCACGGACCATCTGGGGAACAAATACTACTACGTCGCCGAGTACAAGAACTGGAGAGGGCAGACTATTTCG
 AGAGAAAAGGATTGTAGAAGCAGCGAACAGAAAAGAGGTAGACTATGAAGCAGGAGACATCCCAACCGAG
 TGGGAAGCATGGATTAGAAGAACAAGGAAGACTCCACCCACTATGGAGGAAATACTAAAGAATGAAAAGT
 ACAGAGAAGAAATTTAAATAAAAAGCCAAGATTTTATGAAAAAGATAAACTCGGTAAGAAACCCAGTGA
 AGAACTCTGCCTTACCTACTGCAACTCAAGTTAAAGGGCACGCCTCTGCCCCGATTTTGAAGGGAA
 GAGCCCTCAGTGGCTCCCACCAGCACTGGCAAGACTTTTCAGCCAGGGTCTGGACGCCAGAAGATGGCA
 AAAGACAAAGTCAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR224673 protein sequence
 Red=Cloning site Green=Tags(s)

MSWWSGVRSVWSAL SREVREHVGTDHLGNKYYYYAEYKNWRGQTIREKRIVEAANRKEVDYEAGDIPTE
 WEAWIRTRKTPPTMEEILKNEYREEIKIKSQDFYEKDKLGKETSELLPSPTATQVKGHASAPYFGRE
 EPSVAPTSTGKTFQPGSWTPEDGKRQSQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



Cloning Scheme:


ACCN: NM_001127346

ORF Size: 507 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_001127346.1](#), [NP_001120818.1](#)

RefSeq Size: 696 bp

RefSeq ORF: 507 bp

Locus ID: 75597

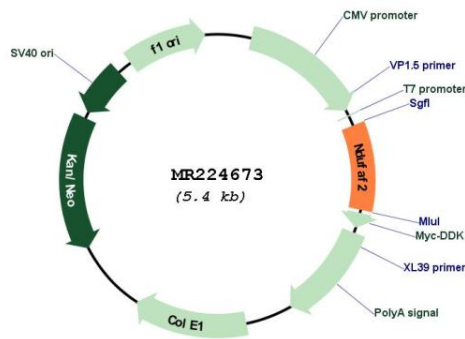
UniProt ID: [Q59J78](#)

Cytogenetics: 13 D2.1

MW: 19.6 kDa

Gene Summary: Acts as a molecular chaperone for mitochondrial complex I assembly. 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]

Product images:



Circular map for MR224673