

## Product datasheet for MR205405

### Ndufa10 (NM\_024197) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ndufa10 (NM_024197) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ndufa10
Synonyms:	2900053E13Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205405 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCTTGAGGTTGCTGAGACTCGTCCCGGCGTCGGCTCCCAGCGCGGCCTCGCGCCGGAGCCAGC  
GCGTGGGACGAATTCATACCAAGTGTGACTGCAAGCTGAGGTATGGGCTTTGGCCGCAATTCCTGGTGA  
TAAGACAACCAAAAGCTGCATGAGTACAGCCGAGTGATAACAGTAGATGGGAACATATGCTCTGGGAAA  
AACAAGCTCGCAAAGGAGATCGCACAGCAACTAGGCATGAAGCACTACCCAGAAGCAGGGATACAGTACT  
CAAGCACCACCAGGCGATGGAAGGCCCTCGACATAGAGTTTGTGGCAGCTGTAGTTTAGAGAAATT  
TTATGATGATCCCAAGAGCAACGATGGCAACAGCTACCGCTGCAAGTCCGGCTGTATGCCAGCCGCTT  
CTTCAGTATGCAGATGCCCTGGAGCACCTGCTGAGCACAGGACAAGTGTGGTCTTGAGCGCTCCATCT  
ACAGTGACTTTGTCTTCCCTGGAGGCAATGTACAACCAGGGCTATATCCGAAAGCAGTGTGTGGACCACTA  
TAATGAAATTAAGCGGCTCACTCTCCCGGAGTACCTGCCACCACAGCAGTCACTATATCGATGTGCC  
GTGCCGGAGGTACAGAGCAGGATCCAGAAGAAAGGAGATCCACATGAAATGAAGGTCACTCTGCATC  
TCCAGGACATCGAGAATGCGTACAAGAAAACCTTCTCCCAAAATGAGTGAAATGTGTGAGGTGTTGGT  
GTACGATTCCTGGGAAGCTGAAGACCAACCAAGTGGTAGAGGACATTAATACCTTAAGTACAACAAA  
GGGCTTGGCTGAAACAGGACGACTGGACCTTCTACTACCTGCGGATGCTGGTTCCAGGATAAGACAGAAG  
TGCTGAATTACAGCACCATTCCGGTCTACCTCCAGAAAACACTATTGGAGCTCATCAGGGTAGCCGGAT  
CTACAACAGCTTCAGAGAGCTGCCAGGCCCAAGTATGCCCTGGGTACAATGCCAGGTGGGTGACAAG  
TGGATCTGGTGAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA



[View online »](#)

**Protein Sequence:** >MR205405 protein sequence  
 Red=Cloning site Green=Tags(s)

MALRLLRLVPASAPARGLAAGAQRVGRIHSTVHCKLRYGLLAAIILGDKTTKKLHEYSRVITVDGNICSGK  
 NKLAKELAQQLGMKHYPEAGIQYSSTTTGDRPLDIEFSGSCSLEKFYDDPKSNDGNSYRLQSWL YASRL  
 LQYADALEHLLSTGQGVVLSIYSDVFLEAMYNQGYIRKQCVDHYNEIKRLTLPEYLPPHAVIYIDVP  
 VPEVQSRIQKKGDPHEMKVTSAYLQDIENAYKKTFLLPKMSEMCEVLVYDSWEAEDPTKVVEDIEYLKYNK  
 GPWLKQDDWTFHYLRMLVQDKTEVLNYYTIPVYLPEITIGAHQGSRIYNSFRELPGRYAPGYNAEVGDK  
 WIWLK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_024197

**ORF Size:** 1068 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\\_024197.1](#), [NP\\_077159.1](#)

**RefSeq Size:** 1222 bp

**RefSeq ORF:** 1068 bp

**Locus ID:** 67273

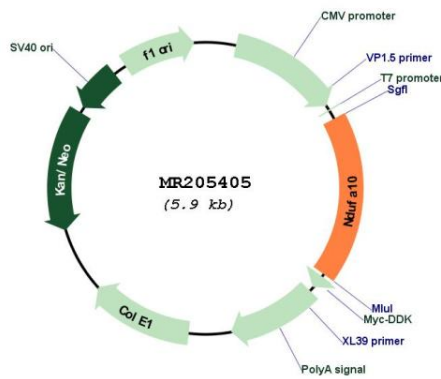
**UniProt ID:** [Q99LC3](#)

**Cytogenetics:** 1 D

**MW:** 40.6 kDa

**Gene Summary:** 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.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR205405