

Product datasheet for **RR204770**

Ndufv1 (NM_001006972) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ndufv1 (NM_001006972) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ndufv1
Synonyms:	MGC94599
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR204770 representing NM_001006972
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTAGCAGCACGGCATTCTCGGCGGGTTCGGTCCCGTGCGGGTATCTGTGCGTCTCAGCAGCGGCA
 CGACAGCACCCAAGAAAACCTCATTGGCTCGCTGAAGGATGAAGACCGGATCTTACCAACCTGTATGG
 GCGCCATGACTGGAGGCTGAAGGGTGCCAGAGCGGGGTGATTGGTACAAGACAAGGAGATCCTGCTG
 AAGGGGCTGACTGGATCTGGGTGAAATGAAGACATCGGGTTACGGGGCCGTGGTGGTCTGGCTTCC
 CCACTGGCCTCAAATGGAGCTTTATGAATAAGCCCTCGGATGGCAGGCCCAAGTACCTGGTGGTGAATGC
 TGACGAGGGTGAAGCCGACCTGAAGGACCGAGAGATCATGCGCCATGACCCTACAAGCTGGTGGAA
 GGCTGCCTGGTGGGAGGCCGGCCATGGGGGCCGGGCTGCCTATATCTACATCCGAGGGGAATTCTACA
 ATGAGGCCCTCAAATTTGAGGTAGCTATCCGAGAGGCCTATGAAGCAGGTCTGATTGGCAAAAATGCCTG
 TGAATCTGATTATGATTTTGTGTTTGTGGTGCCTGGGGCTGGGGCTACATCTGTGGAGAAGAGACT
 GCGCTTATTGAGTCCATTGAAGGCAAGCAGGAAAGCCACGCCTGAAGCCGCCCTTCCAGCAGATGTGG
 GAGTATTTGGATGCCCCACAACCTGTGGCAATGTGGAGACGGTGGCTGTGTCCCCACCATCTGCCGTCCG
 TGGCGGCACCTGGTTTGGCTGGCTTTGGCCGAGAACGCAACTCAGGTACCAAACCTGTTCAACATCTCTGGC
 CATGTCAACCACCCCTGCACTGTGGAGGAAGAGATGTCTGTGCCACTCAAAGAAGTATTGAGAAACATG
 CTGGTGGTGTCTTAGGTGGCTGGGACAACCTCCTTGTGTGATTCTGGTGGCTCATCCACTCCACTGAT
 CCCCAAATCTGTGTGTGAGACAGTGTGATGGACTTTGATGCCCTGGTGCAGGCTCAGACGGGCCTGGGC
 ACAGTGCGGTTATTGTTATGAACAGCTCGACAGACATTGTGAAAGCCATCGCTCGTCTCATTGAGTTCT
 ACAAGCATGAGAGCTGTGGCCAGTGCACCCCGTCCGGGAGGGCGTTGATTGGATGAACAAGGTGATGGC
 CCGATTTGTGAAGGGGGATGCCCGGCCAGCTGAGATCGACTCCCTGTGGGAGATCAGCAAGCAGATAGAA
 GGCCACACCATTTGTGCTCTGGGTGATGGGGCCGCTGGCCAGTACAGGGTCTGATCCGACATTTCCGGC
 CCGAGCTTGGAGATCGGATGCAACGATTTGCCAGCAGCACCAGGCCAGGCAGGCGGCTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR204770 representing NM_001006972
 Red=Cloning site Green=Tags(s)

MLAARHFLGGSVPVRVSVRLSSGTTAPKTSFGSLKDEDRIFTNLYGRHDWRLKGAQRRGDWYKTEILL
 KGPDWILGEMKTSGLRGRGGAGFPTGLKWSFMNKPSDGRPKYL VVNADEGEPGCKDREIMRHPHKLVE
 GCLVGGGRAMGARAAYIYIRGEFYNEASNLQVAIREAYEAGLIGKNACDSYDFDFVVRGAGAYICGEET
 ALIESIEGKQKPRPKPPFPADVGVFGPPTVANVETVAVSPTICRRGGTWFAGFGRENSGKLFNISG
 HVNHPCTVEEEMSVPLKELIEKHAGGVLGGWDLNLLAVIPGGSSTPLIPKSVCEVLMDFDALVQAQTGLG
 TAAVIVMNSSTDIVKAIARLIEFYKHESCGQCTPCREGVDWMNKVMARFVKGDARPAEIDSLWEISKQIE
 GHTICALGDGAAPVQGLIRHFRPELEDRMQRFAQQHQARQAAS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001006972

ORF Size: 1392 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_001006972.1](#), [NP_001006973.1](#)

RefSeq Size: 1506 bp

RefSeq ORF: 1395 bp

Locus ID: 293655

Cytogenetics: 1q43

MW: 50.7 kDa