

## Product datasheet for **RR211428**

### **Ndufs4 (NM\_001025146) Rat Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ndufs4 (NM\_001025146) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Ndufs4  
**Synonyms:** Aqdq  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR211428 representing NM\_001025146  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCGGGCGTCTCAATGTCAGTGTCTGCTGAGACAGCGTTGTTGAGGCAAAGGGCAGTAGCTACAGCTG  
CGGTTTCCGTCGAGAGTTCATCCAGTTGTTGAACACATCGACATGGAAGCTGGCAGACGGCCAAAC  
TCGGGACACCCAGCTTATAACAGTTGATGAGAACTGGATGTTACTCCTCTAACTGGTGTCCAGAAGAG  
CACATCAAACCAGAAAGGTCAGAATCTTTGTTCTGCTCGCAATAACATGCAGTCTGGAGTAAACAACA  
CGAAGAAATGGAAGATGGAGTTTGATACAGAGAGAGATGGGAAAATCCTTTGATGGGTTGGGCATCAAC  
GGCCGATCCCCTCTCAACATGGTTCTCACCTCAGTGCCAAAGAAGATGCGGTTGCCTTTGAGAAAAG  
CATGGATGGAGCTATGACGTGGAAGGGAGGATTCGAAACCAAGTCCAAGTCTTACGGTGCAAACT  
TTTCTTGGAAACAAAAGAACAAGAGTGTCTACAAA

**ACGCGT**ACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR211428 representing NM\_001025146  
Red=Cloning site Green=Tags(s)

MAAVSMSVSLRQALLRQAVATAAVSVCRVPSRLNLTSTWKLADGQTRDTQLITVDEKLDVTPLTGVPEE  
HIKTRKVRIFVPARNMQSGVNNTKKWKMEFDTRERWENPLMGWASTADPLSNMVLTFSAKEDAVAF AEK  
HGWSYDVEGRKVPKPKSKSYGANFSWNKRTRVSTK

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

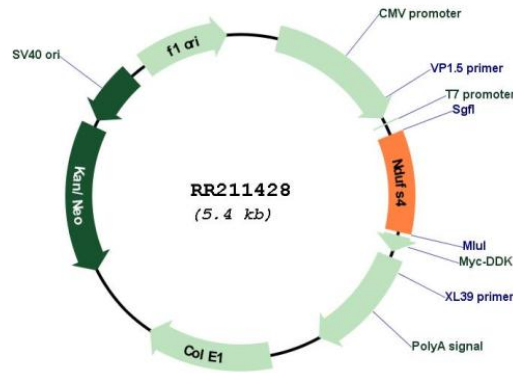


[View online »](#)

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001025146

ORF Size: 525 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001025146.1</a></u> , <u><a href="#">NP_001020317.1</a></u>
<b>RefSeq Size:</b>	1512 bp
<b>RefSeq ORF:</b>	528 bp
<b>Locus ID:</b>	499529
<b>UniProt ID:</b>	<u><a href="#">Q5XIF3</a></u>
<b>Cytogenetics:</b>	2q14
<b>MW:</b>	19.7 kDa
<b>Gene Summary:</b>	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]