

## Product datasheet for RN211428

### Ndufs4 (NM\_001025146) Rat Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ndufs4 (NM\_001025146) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Ndufs4  
**Synonyms:** Aqdq  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN211428 representing NM\_001025146  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGGGCGTCTCAATGTCAGTGTGCTGAGACAGGCGTTGTTGAGGCAAAGGGCAGTAGCTACAGCTG  
 CGGTTCCGTCGAGAGTTCATCCAGTTGTTGAACACATCGACATGGAAGCTGGCAGACGGCCAAAC  
 TCGGGACACCCAGCTTATAACAGTTGATGAGAACTGGATGTTACTCCTCTAACTGGTGTCCAGAAGAG  
 CACATCAAACCAGAAAGGTCAGAACTTTGTTCTGCTCGCAATAACATGCAGTCTGGAGTAAACAACA  
 CGAAGAAATGGAAGATGGAGTTTGATACAGAGAGAGATGGGAAAATCCTTTGATGGGTTGGGCATCAAC  
 GGCCGATCCCCTCTCAACATGGTTCTCACCTTCAGTGCCAAAGAAGATGCGGTTGCCTTTGAGAAAAG  
 CATGGATGGAGCTATGACGTGGAAGGGAGGAAGTTCCGAAACCAAGTCCAAGTCTTACGGTGCAAACT  
 TTTCTTGGAAACAAAAGAACAAGAGTGTCTACAAAATAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001025146  
**Insert Size:** 528 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).



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<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>NM_001025146.1, NP_001020317.1</u>
<b>RefSeq Size:</b>	1512 bp
<b>RefSeq ORF:</b>	528 bp
<b>Locus ID:</b>	499529
<b>UniProt ID:</b>	<u>Q5XIF3</u>
<b>Cytogenetics:</b>	2q14
<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]