

## Product datasheet for **RC235942**

### **NDUFB9 (NM\_001278646) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** NDUFB9 (NM\_001278646) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** NDUFB9  
**Synonyms:** B22; CI-B22; LYRM3; MC1DN24; UQOR22  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC235942 representing NM\_001278646  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

**ATGAGAGCCCGTTTGAAGAACATAAGAATGAAAAGGATATGGCGAAGGCCACCCAGCTGCTGAAGGAGG**  
**CCGAGGAAGAATTCTGGTACCGTCAGCATCCACAGCCATACATCTCCCTGACTCTCTGGGGGCACCTC**  
**CTATGAGAGATACGATTGCTACAAGTCCAGAATGGTGCTTAGATGACTGGCATCCTTCTGAGAAGGCA**  
**ATGTATCCTGATTACTTTGCCAAGAGAGAACAGTGAAGAACTGCGGAGGAAAGCTGGGAACGAGAGG**  
**TTAAGCAGCTGCAGGAGAAACGCCACCTGGTGGTCTTTAACTGAAGCTTTGCCCCCTGCCGAAAGGA**  
**AGGTGATTTGCCCCACTGTGGTGGTATATTGTGACCAGACCCCGGGAGCGGCCCATG**

**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT**  
**ACAAGGATGACGACGATAAGGTTTAA**

**Protein Sequence:** >RC235942 representing NM\_001278646  
**Red=Cloning site Green=Tags(s)**  
  
MRARFEEHKNEKDMAKATQLLKEAEEEFWYRQHPQPYIFPDSPPGGTSYERYDCYKVPWCLDDWHPSEKA  
MYPDYFAKREQWKLRRESWEREVKQLQEETPPGGPLTEALPPARKEGDLPLWWYIVTRPRRPM

**TRTRPLEQKLI SEEDLAANDILDYKDDDDKV**

**Restriction Sites:** Sgfl-MluI



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<b>OTI Annotation:</b>	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_001278646.1</a></u> , <u><a href="#">NP_001265575.1</a></u>
<b>RefSeq Size:</b>	733 bp
<b>RefSeq ORF:</b>	411 bp
<b>Locus ID:</b>	4715
<b>Cytogenetics:</b>	8q24.13
<b>Protein Pathways:</b>	Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease
<b>MW:</b>	17 kDa
<b>Gene Summary:</b>	The protein encoded by this gene is a subunit of the mitochondrial oxidative phosphorylation complex I (nicotinamide adenine dinucleotide: ubiquinone oxidoreductase). Complex I is localized to the inner mitochondrial membrane and functions to dehydrogenate nicotinamide adenine dinucleotide and to shuttle electrons to coenzyme Q. Complex I deficiency is the most common defect found in oxidative phosphorylation disorders and results in a range of conditions, including lethal neonatal disease, hypertrophic cardiomyopathy, liver disease, and adult-onset neurodegenerative disorders. Pseudogenes of this gene are found on chromosomes five, seven and eight. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2015]