

## Product datasheet for **RR211896**

### Coq6 (NM\_001011983) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Coq6 (NM_001011983) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Coq6
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR211896 representing NM\_001011983  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCGGCCCGCATTGGCCCATGGCAGGTTTGTCTGTGTTTCGCTGGTGGAGTACCGCGCAACTTGCAG  
 CCAGAGGAGGCCACTAGTTGCCTGTCGGCGATGGACGAGCTCCTCGACAGACTCCGTGTACGATGTGGT  
 GGTGTCAGGAGGAGGCATGGTGGCTCTGCCATGGCTTGTGCCTTGGGACATGATATTCATTTTCATGAC  
 AAGAAAATCCTATTGCTGGAAGCGGGTCCGAAGAAAACCTGGAGAACTGTGAGAACTTACAGCAACA  
 GAGTCAGTCCATATCCCTTGGCTCCACAACCTTCTCAGCAGTTTTGGTGCATGGGACCACATCTGCAA  
 TATGCGTTGCAAAGCCTCCGGCGGATGCAGGTTTGGGACTCCTGCTCAGAGGCCTTGATAATGTTGAC  
 AAGATAACTGGATGACATGGCTATATAGTGGAAAATGACGTCATCATGCACGCCATACCAAGCAGC  
 TGGAGGCGGTGGCAGATCGAGTGAAGTTCTCTACGAGAGCAAAGCTGTTGGCTATGCCTGGCCTGGTCC  
 ATTTTCTTGGCAGACTCCAGCCCTTGGGTCCATATTACCCTAGGTGATGGCAGCACCTCCAGACCAAG  
 CTGTTGATTGGTCTGATGGCCACAACCTCAGGAGTGAGGCAAGCTGCTGGGATCCAGAATGTTGGCTGGA  
 ACTACGACCAGTCTGCTGTGGTGGCCACTCTCCACTTATCAGAGGCCACAGAAAACAATGTAGCCTGGCA  
 GAGATTTCTTCCCTCTGGGCCTATTGCTGCTGCCGCTCTCAGATACCTGAGTTCCTTGGTGTGGTCC  
 ACGTCACATGCCATGCAGCCGAGCTGGTCAGCATGCATGAGGAAGAGTTCGTGGATGCCATCAACTCGG  
 CCTTTTGGAGTGATGTTACCACACAGACTTCGTCGACTCAGCTAGTCCATGGTGCACCATGCTGTGCG  
 CCTTCTGAAGCCCACTAAGGTCTCCGCCCGCAGCTGCCCCAAGCGTAGCCAAGGTGGATGCCAAGAGC  
 AGAGCCCTCTTCTCTGGGCTGGGACATGCTGCTGAGTACGTCGGCCTCGGGTGGCCCTCATCGGTG  
 ATGCAGCCACAGAGTCCATCCACTTGCAGGACAAGGTGTCAACATGGGCTTCGGGGATATTTCCAGCTT  
 GATTCATTATCTCAGTACAGCAGCTTCAATGGCAAGGACTTAGGCTCCATGAGCCACCTCACAGGCTAT  
 GAAACAGACCACAGCGTCATAATACTGCTCTTCTGGCTGCTACTGACCTGCTGAAAAGGCTCTACTCTA  
 CCAGTACCACTCCGCTAGTGTGCTCAGGACCTGGGGCCTGCAGGCCACTAATGCAGTGTCTCTCTCAA  
 AGAACAGATTATGGCCTTGGCAGTAGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR211896 representing NM\_001011983  
 Red=Cloning site Green=Tags(s)

MAARIGPMAGLLCVRWWSTAQLAARGGPLVACRRWTSSTDSVYDVVVSGGGMVGSAMACALGHDHIFHD  
 KKILLLEAGPKKLEKLESETYSNRVSSISLGSSTLLSSFAGWDHICNMRCKAFRRMQVWDCSEALIMFD  
 KDNLDDMGYIVENDVIMHAITKQLEAVADRKVLYESKAVGYAWPGPFLADSSPWVHITLGDGSLQTK  
 LLIGADGHNSGVRQAAGIQNVGWNVDQSAVVATLHLSEATENNVAVQRFLPSGPIALLPLSDTLSSLVWS  
 TSHAAAEELVSMHEEFVDAINSFAFWSVHHTDFVDSASAMVHHAVALLKPTKVSARQLPPSVAKVDAKS  
 RALFPLGLGHAAEYVRPRVALIGDAHRVHPLAGQGVNMGFGDISSLIHYLSTAAFNGKDLGSMShLTGY  
 ETRDRHNTALLAATDLLKRLYSTSTPLVLLRTWGLQATNAVSPKLEQIMAFASR

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

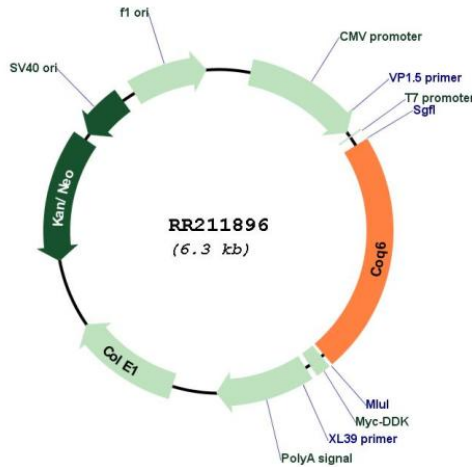
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001011983

ORF Size: 1428 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).

<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_001011983.1, NP_001011983.1</u>
<b>RefSeq Size:</b>	1762 bp
<b>RefSeq ORF:</b>	1431 bp
<b>Locus ID:</b>	299195
<b>UniProt ID:</b>	<u>Q68FU7</u>
<b>Cytogenetics:</b>	6q31
<b>MW:</b>	51.5 kDa
<b>Gene Summary:</b>	FAD-dependent monooxygenase required for the C5-ring hydroxylation during ubiquinone biosynthesis. Catalyzes the hydroxylation of 3-polyprenyl-4-hydroxybenzoic acid to 3-polyprenyl-4,5-dihydroxybenzoic acid. The electrons required for the hydroxylation reaction may be funneled indirectly from NADPH via a ferredoxin/ferredoxin reductase system to COQ6.[UniProtKB/Swiss-Prot Function]