

Product datasheet for **RN211896**

Coq6 (NM_001011983) Rat Untagged Clone

Product data:

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



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Fully Sequenced ORF: >RN211896 representing NM_001011983
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGCCCGCATTGGCCCATGGCAGGTTTGTCTGTGTTTCGCTGGTGGAGTACCGCGCAACTTGCAG
 CCAGAGGAGGCCACTAGTTGCCTGTCCGGCATGGACGAGCTCCTCGACAGACTCCGTGTACGATGTGGT
 GGTGTCAGGAGGAGGCATGGTGGCTCTGCCATGGCTTGTGCCTGGGACATGATATCACTTTTCATGAC
 AAGAAAATCCTATTGCTGGAAGCGGGTCCGAAGAAAACCTGGAGAACTGTGAGAACTTACAGCAACA
 GAGTCAGTCCATATCCCTGGCTCCACAACCTTCTCAGCAGTTTTGGTGCATGGGACCACATCTGCAA
 TATGCGTTGCAAAGCCTCCGGCGGATGCAGGTTTGGGACTCCTGCTCAGAGGCCTTGATAATGTTGAC
 AAGATAACTGGATGACATGGCTATATAGTGGAAAATGACGTCATCATGCACGCCATACCAAGCAGC
 TGGAGGCGGTGGCAGATCGAGTGAAGTTCTCTACGAGAGCAAAGCTGTTGGCTATGCCTGGCCTGGTCC
 ATTTTCCTTGGCAGACTCCAGCCCTTGGGTCCATATTACCCTAGGTGATGGCAGCACCTCCAGACCAAG
 CTGTTGATTGGTCTGATGGCCACAACCTCAGGAGTGAGGCAAGCTGCTGGGATCCAGAATGTTGGCTGGA
 ACTACGACCAGTCTGCTGTGGTGGCCACTCTCCACTTATCAGAGGCCACAGAAAACAATGTAGCCTGGCA
 GAGATTTCTTCCCTCTGGGCCTATTGCTGCTGCCGCTCTCAGATACCTGAGTTCCTTGGTGTGGTCC
 ACGTCACATGCCATGCAGCCGAGCTGGTCAGCATGCATGAGGAAGAGTTCGTGGATGCCATCAACTCGG
 CCTTTTGGAGTGATGTTCAACACACAGACTTCGTCGACTCAGCTAGTGCCATGGTGCACCATGCTGTCG
 CCTTCTGAAGCCCACTAAGGTCTCCGCCCGCAGCTGCCCCAAGCGTAGCCAAGGTGGATGCCAAGAGC
 AGAGCCCTCTTTCCTCTGGGGCTGGGACATGCTGCTGAGTACGTCGGCCTCGGGTGGCCCTCATCGGTG
 ATGCAGCCACAGAGTCCATCCACTTGCAGGACAAGGTGTCAACATGGGTTTCGGGGATATTTCCAGCTT
 GATTCATTATCTCAGTACAGCAGCCTTCAATGGCAAGGACTTAGGCTCCATGAGCCACCTCAGAGGCTAT
 GAAACAGACCACAGCGTCATAATACTGCTCTTCTGGCTGCTACTGACCTGCTGAAAAGGCTCTACTCTA
 CCAGTACCACTCCGCTAGTGTGCTCAGGACCTGGGGCCTGCAGGCCACTAATGCAGTGTCTCTCTCAA
 AGAACAGATTATGGCCTTGGCAGTAGA**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001011983
- Insert Size:** 1431 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).
- 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:	<u>NM_001011983.1, NP_001011983.1</u>
RefSeq Size:	1762 bp
RefSeq ORF:	1431 bp
Locus ID:	299195
UniProt ID:	<u>Q68FU7</u>
Cytogenetics:	6q31
Gene Summary:	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]