

Product datasheet for **MC216552**

Coq6 (NM_172582) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Coq6 (NM_172582) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Coq6
Synonyms:	5930427M12Rik; AW742344
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC216552 representing NM_172582
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGCCCGCATTGGCTCCATGGCAGGCTTGTCTGCGTTGCTGGTGGAGTTCGCGCAGCTCGCAG
 CCAGAGGAGGCCGCTAGTTGCCAGCCAGCGATGGGCGGGCTCCTCGGCAGACACCGTGTACGACGTGGT
 GGTGTCAGGAGGAGCCCTAGTGGCTCTGCCATGGCTTGTGCCTTAGGACATGATATCACTTTTCATGAC
 AAGAAAATCCTGTTGCTGGAGGCGGGTCCAAGAAAGCCCTGGAGAACTGTGAGAGACTTACAGCAACA
 GAGTCAGCTCCATATCCCCTGGCTCCACAACCCTGCTCAGCAGTTTTGGTGCATGGGACCACATCTGCAA
 TATGCGCTGCAAAGCCTCCGGAGGATGCAGGTGTGGACTCCTGCTCAGAGGCCTTGATAATGTTGAC
 AGGGACAACCTGGATGACATGGCTATATAGTGGAAAATGACGTCATCATGTATGCCCTCACAAACAGC
 TGGAGGCTGTGGCAGATCGAGTGAAGTTCTCTATGAGAGCAAAGCTGTTGGCTATTCTGGCCTGGTGC
 ATTTTCCATGGCAGACTCCAGCCCTTGGGTCCATATTACCCTAGGTGATGGCAGTACCCTCCAGACCAAA
 CTGTTGATTGGTCTGATGGGCACAAGTCAGGAGTGAGGCAAGCTGCTGGGATCCAGAATGTCAGCTGGA
 AGTACGACCAGTCTGCTGTGGTGGCCACTCTCCAATTATCAGAGGCCACAGAAAACAATGTAGCCTGGCA
 GAGATTTCTTCCCTCTGGGCCTATTGCTGCTCCCGCTCTCGGATACCTTGAGCTCCTTGGTCTGGTCC
 ACATCACACGAGCATGCAGCAGAGCTGGTCAGCATGGATGAGGAAGAATTCGTGGATGCCATCAACTCTG
 CCTTTGGAGTGATGTTCAACACACAGACTTCGTGACTCTGCCAGCGCCATGGTGCGCCATGCTGTGCG
 CCTTCTGAAGCCCACTAAGGTCTCAGCCCGTCACTGCCCAAGTATAGCCAAGGTGGATGCTAAAAGC
 AGAGCCCTCTTCTCTGGGCTGGGACATGCTGCTGAGTACGTCGGCCTCGGGTGGCCCTCATTGGTG
 ATGCAGCCACAGAAATCCACTCCGCGGACAAGGTGTCAACATGGGCTTCGGGGATATTTCCAGCTT
 GGTTTCATCATCTCAGTACAGCAGCCTCAATGGGAAGGACTTAGGCTCCATGAGCCACCTCACAGGTTAT
 GAGACAGACAGACAGCTCATAACTGCTCTCCTGGCTGCTACTGACCTGTTGAAAAGGCTCTACTCTA
 CCAGTGCCACTCCCCTCGTGTCTCAGGACCTGGGGCTTGACAGGCCACGAACGCAGTGTCTCTCTCAA
 AGAACAGATTATGGCCTTTGCGAGCAA**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_172582

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: [NM_172582.3](#), [NP_766170.2](#)

RefSeq Size: 1602 bp

RefSeq ORF: 1431 bp

Locus ID: 217707

UniProt ID: [Q8R1S0](#)

Cytogenetics: 12 D1

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]