

## Product datasheet for **MR215988**

### Coq6 (NM\_172582) Mouse Tagged ORF Clone

#### Product data:

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



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**ORF Nucleotide Sequence:**

>MR215988 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGGCCCGCATTGGCTCCATGGCAGGCTTGTCTGCGTTGCTGGTGGAGTTCGCGCAGCTCGCAG  
 CCAGAGGAGGCCGCTAGTTGCCAGCCAGCGATGGGCGGGCTCCTCGGCAGACACCGTGTACGACGTGGT  
 GGTGTCAGGAGGAGCCCTAGTGGCTCTGCCATGGCTTGTGCCTTAGGACATGATATCACTTTTCATGAC  
 AAGAAAATCCTGTTGCTGGAGGCGGGTCCAAAGAAAGCCCTGGAGAACTGTGAGAGACTTACAGCAACA  
 GAGTCAGCTCCATATCCCTGGCTCCACAACCCTGCTCAGCAGTTTTGGTGCATGGGACCACATCTGCAA  
 TATGCGCTGCAAAGCCTCCGGAGGATGCAGGTGTGGACTCCTGCTCAGAGGCCTTGATAATGTTGAC  
 AGGGACAACCTGGATGACATGGCTATATAGTGGAAAATGACGTCATCATGTATGCCCTCACAAACAGC  
 TGGAGGCTGTGGCAGATCGAGTGAAGTTCTCTATGAGAGCAAAGCTGTTGGCTATTCTGGCCTGGTGC  
 ATTTTCCATGGCAGACTCCAGCCCTTGGGTCCATATTACCCTAGGTGATGGCAGTACCCTCCAGACCAAA  
 CTGTTGATTGGTCTGATGGGCACAAGTCAGGAGTGAGGCAAGCTGCTGGGATCCAGAATGTCAGCTGGA  
 AGTACGACCAGTCTGCTGTGGTGGCCACTCTCCAATTATCAGAGGCCACAGAAAACAATGTAGCCTGGCA  
 GAGATTTCTTCCCTCTGGGCCTATTGCTGCTGCCGCTCTCGGATACCTTGAGCTCCTTGGTCTGGTCC  
 ACATCACACGAGCATGCAGCAGAGCTGGTCAGCATGGATGAGGAAGAATTCGTGGATGCCATCAACTCTG  
 CCTTTTGGAGTGATGTTACCACACAGACTTCGTCGACTCTGCCAGGCCATGGTGCGCCATGCTGTGCG  
 CCTTCTGAAGCCCACTAAGGTCTCAGCCCGTCACTGCCCAAGTATAGCCAAGGTGGATGCTAAAAGC  
 AGAGCCCTCTTCTCTGGGCTGGGACATGCTGCTGAGTACGTCGGCCTCGGGTGGCCCTCATTGGTG  
 ATGCAGCCACAGAATCCACTCGCGGCAAGGTGTCAACATGGGCTTCGGGGATATTTCCAGCTT  
 GGTTTCATCATCTCAGTACAGCAGCCTTCAATGGGAAGGACTTAGGCTCCATGAGCCACCTCACAGTTAT  
 GAGACAGACAGACAGCGTCATAACTGCTCTCCTGGCTGCTACTGACCTGTTGAAAAGGCTCTACTCTA  
 CCAGTGCCACTCCCTCGTGTCTCAGGACTGGGGCTTGACAGGCCACGAACGCAGTGTCTCTCTCAA  
 AGAACAGATTATGGCCTTTGCGAGCAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR215988 protein sequence  
 Red=Cloning site Green=Tags(s)

MAARIGSMAGLLCVRWWSSAQLAARGGPLVASQRWAGSSADTVYDVVVS GGGLVGSAMACALGHDIFHFD  
 KKILLLEAGPKKALEKLESETYSNRVSSISPGSTLLSSF GAWDHICNMCKAFRRMQVWDSCSEALIMFD  
 RDNLDDMGYIVENDVIMYALTKQLEAVADRVKVLYESKAVGYSWPGAFSMADSSPWVHITLGDGSLQTK  
 LLIGADGHKSGVRQAAGIQVSWKYDQSAVVATLHLSEATENNVAVQRFLPSGPIALLPLSDTLSSLVWS  
 TSHEHAAELVSMDEEEFVDAINS FWSVDVHHTDFVDSASAMVRHAVALLKPTKVSARQLPPSIKVDKAS  
 RALFPLGLGHAAEYVRPRVALIGDAAHRIHPLAGQGVNMGFGDISSLVHHLSTAAFNGKDLGMSHLTGY  
 ETRQRHNTALLAATDLLKRLYSTATPLVLLRWTWGLQATNAVSPLEQIMAFASK

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_172582

**ORF Size:** 1431 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).

- 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

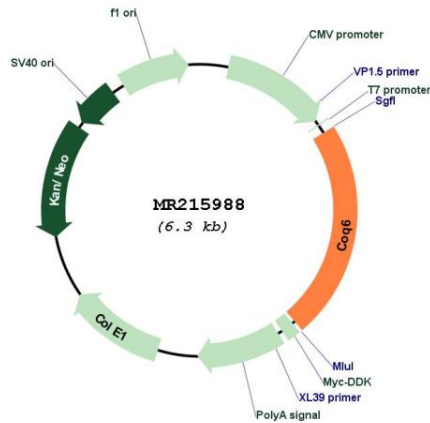
**UniProt ID:** [Q8R1S0](#)

**Cytogenetics:** 12 D1

**MW:** 51.4 kDa

**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]

**Product images:**



Circular map for MR215988