

## Product datasheet for MR202436

### Coq7 (NM\_009940) Mouse Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Coq7 (NM\_009940) Mouse Tagged ORF Clone  
 Tag: Myc-DDK  
 Symbol: Coq7  
 Synonyms: clk-1  
 Mammalian Cell Selection: Neomycin  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 ORF Nucleotide Sequence: >MR202436 representing NM\_009940  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGGATCGCC

ATGAGCGCCCGCGGAGCCATAGCGGCTGCTTCCGTGGGACGCCTGCGCACTGGTGTCCGGAGGCCCTTCT  
 CAGAGTATGGAAGAGGCCTCATCATCAGGTGTACAGTTCGGGGATGACCTTAGACAATATTAACCGGGC  
 AGCCGTGGATCGAATAATTCGGGTGGATCACGCTGGTGAATATGGAGCAAACCGCATCTATGCAGGGCAA  
 ATGGCCGTGCTCGGTCGGACCAAGTGTGGCCCTGTCATTACAGAAAATGTGGGATCAAGAGAAGAACCATT  
 TGA AAAAGTTCAACGAGTTGATGATTGCATTACAGGTCCGACCTACGGTTTTGATGCCCTTGTGGAACGT  
 GGCAGGCTTGGCCTGGGGCAGGAACTGCCTTGTGGGAAGGAAGGAGCAATGGCCTGCACCGTGGCC  
 GTAGAAGAGTCTATCGCTAATCACTACAACAACAGATCCGCATGCTGATGGAAGAGGACCTGAGAAGT  
 ATGAGGAGCTGCTGCAGGTCAAGCAGTTTCGCGATGAGGAGCTTGAACACCACGATACAGGCCTGGA  
 CCATGACGCAGAGCTGGCTCCCGGTATGCCTTGTGAAGAGGATTATCCAGGCCGGATGCAGTGCAGCC  
 ATATATTTATCAGAAAGTTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR202436 representing NM\_009940  
 Red=Cloning site Green=Tags(s)

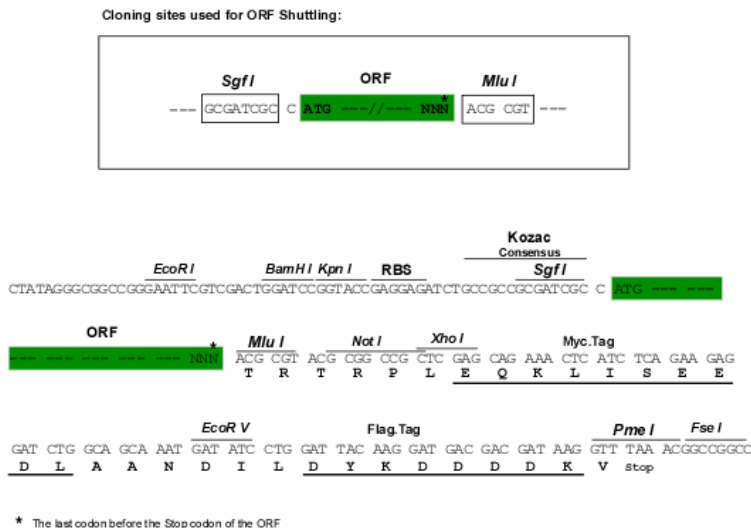
MSAAGIAAAASVGRRLRTGVRRPFSEYGRGLIIRCHSSGMTLDNINRAAVDRIIRVDHAGEYGANRIYAGQ  
 MAVLGRTSVGPVIQKMWQEKHNLKFFNELMIAFRVRPTVLMPLWNVAGFALGAGTALLGKEGAMACTVA  
 VEESIANHYNNQIRMLMEEDPEKYEELLQVIKQFRDEELEHHDGLDHDHAELAPAYALLKRIIQAGCSAA  
 IYLSERF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9057\\_d01.zip](https://cdn.origene.com/chromatograms/mm9057_d01.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_009940

**ORF Size:** 651 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\\_009940.3](#), [NP\\_034070.1](#)

**RefSeq Size:** 944 bp

**RefSeq ORF:** 654 bp

**Locus ID:** 12850

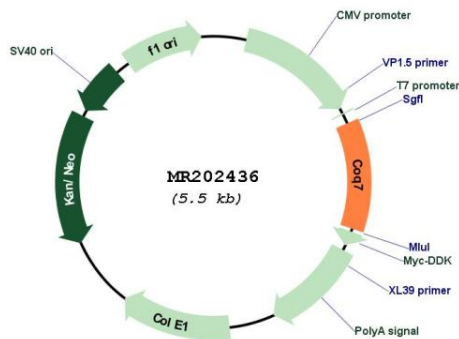
**UniProt ID:** [P97478](#)

**Cytogenetics:** 7 63.44 cM

**MW:** 24 kDa

**Gene Summary:** Catalyzes the hydroxylation of 2-polyprenyl-3-methyl-6-methoxy-1,4-benzoquinol (DMQH2) during ubiquinone biosynthesis. Has also a structural role in the COQ enzyme complex, stabilizing other COQ polypeptides (By similarity). Involved in lifespan determination in a ubiquinone-independent manner (PubMed:19478076).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR202436