

## Product datasheet for MR204460

### Coq9 (BC036386) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Coq9 (BC036386) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Coq9
Synonyms:	2310005O14Rik; C78387
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204460 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGCAGACAGCAGCCGTGTCTGGTGTCTCGGCCGCTTGGGCTGGAGGCTCCTGCAGCTGCGGTGCC  
TGCCCGTGGCCCGCTGCCGACCAGCTCTGGTGCCACGTGCCTTCCACACTGCCGTGGGGTTCCGGTCTTC  
AGAAGAGCAGAAGCAGCAGCCTCCCACTTCTTCTCAGCAGCATTCTGAGACACAGGGCCCGAGTTT  
TCCCGTCCACCCCGAGGTACACAGACCAGAGTGGAGAGGAGGAAGAGGACTATGAGAGTGAGGAGCAGC  
TACAGCACCGCATCTTGACAGCAGCCCTAGAGTTTGTGCCTGCCATGGCTGGACTGCAGAGGCCATTGC  
CGAAGGAGCCAGTCCTTGGGTCTCTCCAGCGCAGCAGCCAGCATGTTTGGGAGCGATGGCAGTGAGCTG  
ATTCTTCACTTTGTGACCCAGTGAATGCTCGCCTCAACCAGGTGCTGGAAGAGGAGCAGAAGCTGGTGC  
AACTGGGCCAGGCAGAGAAGAGGAAGACAGACCAGTTCCTGAGGGATGCAGTGGAAACCAGACTGAGAAT  
GCTGATCCCTACATTGAGCACTGGCCCGGCCCTCAGCATCTCCTGCTCCCTCACAACATCCCACCC  
AGCCTGAACCTTGCTCACCAGCATGGTGGATGACATGTGGCATTACGCTGGGGACCACTCCACTGACTTTA  
ACTGGTACACCCCGCGTGCAGTGTGGTGGCATCTACAACACAACAGAGCTGGTATGATGCAGGATTC  
CTCCCCAGACTTTGAAGATACTTGGCGCTTCTGGAAAACCGGATTAATGATGAATGAACATGGGCCAC  
ACGGCTAAGCAGGTGAAGTCCACGGGAGAGGCACTGGTGAAGGACTGATGGGTGCAGCGGTACAGCTCA  
AGAACCTGACGGGTCTAAACCAGCGTCGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR204460 protein sequence  
Red=Cloning site Green=Tags(s)

MAATAAVSGVLGRLGWRLQLRCLPVARCRPALVPRAFHTAVGFRSSEEQKQPPHSSSQHSETQGPEF  
 SRPPPRYTDQSGEEEEEDYESEEQLQHRILTAALFVPAHGWTAEIAEGAQSLGLSSAAASMFSGDSEL  
 ILHFVTQCNARLNQVLEEEQKLVLGQAEKRKTDQFLRDAVETRLRMLIPYIEHWPRALSILLPHNIPP  
 SLNLLTSMVDDMWHYAGDQSTDFNWTTRAVLAGIYNTTELVMQDSSPDFEDTWRFLNRIINDAMMNGH  
 TAKQVKSTGEALVQGLMGAAVTLKNLTGLNQRR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** BC036386

**ORF Size:** 939 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:** [BC036386](#), [AAH36386](#)

**RefSeq Size:** 1717 bp

**RefSeq ORF:** 941 bp

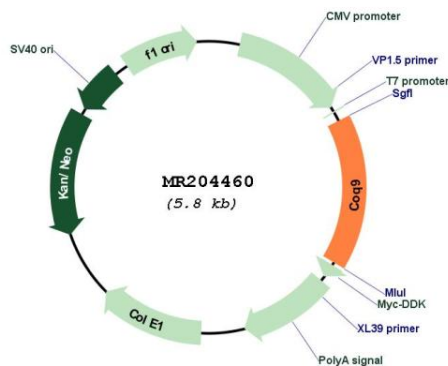
**Locus ID:** 67914

**Cytogenetics:** 8 C5

**MW:** 35.1 kDa

**Gene Summary:** Lipid-binding protein involved in the biosynthesis of coenzyme Q, also named ubiquinone, an essential lipid-soluble electron transporter for aerobic cellular respiration (PubMed:25339443). Binds a phospholipid of at least 10 carbons in each acyl group. May be required to present its bound-lipid to COQ7 (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR204460