

## Product datasheet for **RC210466**

### COQ5 (NM\_032314) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	COQ5 (NM_032314) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	COQ5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC210466 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGCCCCGGGAGCTGTGCCCTATGGAGCTATTGCGGCCGTGGGTGGTCCGGGGCATGCGGGGCT  
GCCAGCTCCTCGGGCTTCGTAGCTCTTGGCCCGGGGACCTACTAAGTGCTCGGCTCTTGCCCAAGAGAA  
GCGGGCAGCGAAACGCACTTTGGGTTTGAGACTGTGTGGAAGAGGAGAAGGGGGCAAAGTCTATCAG  
GTGTTTAAAAGTGTGGCTAAGAAGTATGATGTGATGAATGATATGATGAGTCTTGGTATCCATCGTGT  
GGAAGGATTTGCTGCTCTGGAAGATGCACCCGCTTCTGGGACCCAGCTGCTTGATGTTGCTGGAGGCAC  
AGGTGACATTGCATTCGGTTCCCTAATTATGTTCACTCCAGCATCAGAGAAAACAGAAGAGGAGTGA  
AGGGCCCAACAAAATTTATCCTGGGAAGAAATTGCCAAAGAGTACCAGAATGAAGAAGATTCCCTGGGCG  
GGTCTCGTGTGCTGGTGTGACATCAACAAGGAGATGCTAAAGGTTGGAAGCAGAAAGCCTTGCTCA  
AGGATACAGAGCTGGACTTGCATGGGTATTAGGAGATGCTGAAGAAGTGCCTTTGATGATGACAAGTTT  
GATATTTACACCATTGCCTTTGGGATCCGGAATGTCACACACATTGATCAGGCACTCCAGGAAGCTCATC  
GGGTGCTGAAACCAGGAGGACGGTTTCTCTGTCTGGAATTTAGCCAAGTGAACAATCCCCTCATATCCAG  
GCTTTATGATCTATATAGCTTCCAGGTCATCCCTGTCTGGGAGAGGTGATCGCTGGAGACTGGAAGTCC  
TATCAGTACCTTTGATAGAGATATCCGAAGTTTCCGTCTCAGGAAGAGTTCAAGGACATGATAGAAGATG  
CAGGCTTTCACAAGGTGACTTACGAAAGTCTAACATCAGGCATTGTGGCCATTCTCTGGCTTCAAAC  
T

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC210466 protein sequence  
Red=Cloning site Green=Tags(s)

MAAPGSCALWSYCGRGSRAMRGCQLLGLRSSWPGDLLSARLLSQEKRAAETHFGFETVSEEEKGGKVYQ  
 VFESVAKKYDVMNDMMSLGIHRVWKDLLLWKMHLPGTQLLDVAGGTGDIAFRFLNYVQSQHQKQKRQL  
 RAQQNLSWEEIAKEYQNEEDSLGGSRVVCDINKEMLKVGKQKALAQQYRAGLAWVLGDAEELPFDDDKF  
 DIYTIAFGIRNVTHIDQALQEAHRVLKPGGRFLCLEFSQVNNPLISRLYDLYSFQVIPVLGEVIAGDWKS  
 YQYLVESIRRRFPSQEEFKDMIEDAGFHKVTVYESLTSGIVAIHSGFKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6547\\_a03.zip](https://cdn.origene.com/chromatograms/mk6547_a03.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_032314

**ORF Size:** 981 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\\_032314.4](#)

**RefSeq Size:** 1530 bp

**RefSeq ORF:** 984 bp

**Locus ID:** 84274

**UniProt ID:** [Q5HYK3](#)

**Cytogenetics:** 12q24.31

**Domains:** Ubie\_methyltran

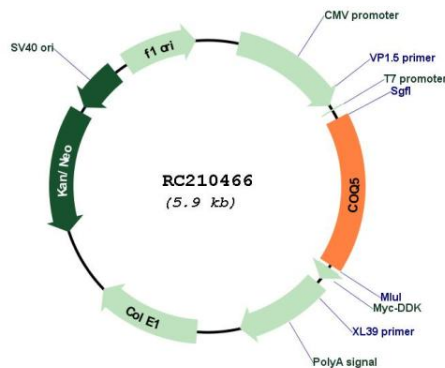
**Protein Families:** Druggable Genome

**Protein Pathways:** Metabolic pathways, Ubiquinone and other terpenoid-quinone biosynthesis

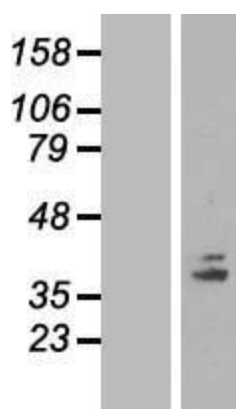
**MW:** 37.1 kDa

**Gene Summary:** Methyltransferase required for the conversion of 2-polyprenyl-6-methoxy-1,4-benzoquinol (DDMQH2) to 2-polyprenyl-3-methyl-6-methoxy-1,4-benzoquinol (DMQH2).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for RC210466



Western blot validation of overexpression lysate (Cat# [LY410214]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210466 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).