

Product datasheet for **RR210885**

Coq5 (NM_001039022) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Coq5 (NM_001039022) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Coq5
Synonyms: RGD1310857
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR210885 representing NM_001039022
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGGCGCCAGGAGCTGTGTTCTATGGAGCTACTGCGGCCACGGGTGGTCGCGATTAGCAGGAGACT
GCAGGCTCCCGGGTTTCGTAGATCTTGGCTGGGGCCACGCTGAGTGCGCGTCTTGTCCCAAGAGAA
GCGAGCCGCGAACTCACTTCGGGTTTGAGACGGTGTGCGAAAAGGAAAAGGAGGCAAAGTCTACCAG
GTGTTTCAGAGCGTGGCCAGGAAGTACGACCTGATGAATGACATGATGAGCCTCGGCATCCACCGTGCCT
GGAAGGATTTGCTGATCAGGAAAATGCACCCGCTGCCCGGACCCAGCTGCTCGATGTGGCTGGAGGCAC
AGGTGACATTGCATTCCGGTTCCTTAGTTACGTTACAGACACAGCATGAGAGGAAAACAGAGGAGACAGCTG
AGGACGCGGCAGAAATTTATCCTGGGAAGAAATTGCCAGAAAGTACCAGAGTAAAGAGGACCCCTGGGAG
GTTTCGTTGTGTCATGGTCTGCGACATCAACAGGGAGATGCTGAAGGTCGAAAGCAGAAAGCCTTGGCCCG
GGGACACACGGCTGGACTTGCCTGGGTGCTGGGAGACGCTGAAGAACTGCCCTTTGATGATGACAGATTT
GACGTTTACACCATTGCCTTTGGGATCCGGAATGTCACGCACATTGACCGGGCTCTCCAGGAAGCCCATC
GAGTCTAAAGCCTGGAGGACGTTTCTGTCTGGAGTTTAGCCAAGTGAATGACCCCTCATCTCCAG
GCTTTATGATCTGTACAGCTTCCAGGTATCCCTGTATCGGTGAGGTCATTGCAGGAGACTGGAAGTCC
TATCAATACCTTGTGAAAGTATTCCGAAGTCCCAAATCAGGAAGAGTTCAAGGACATGATAGAAGACG
CAGGCTTTCAGAAGTGACTTACGAGAGCTGACTTCAGGGATTGTGCCATTCACTCTGGCTTCAAAC
C

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR210885 representing NM_001039022
 Red=Cloning site Green=Tags(s)

MAAPRSCVLWSYCGHWSRLAGDCRLPGFRRSWLGATLSARSLSQEKRAAETHFGFETVSEKEKGGKVVYQ
 VFQSVARKYDLMNDMMSLGIHRAWKDLLIRKMHPLPGTQLLDVAGGTGDIAFRFLSYVQTQHERKQRRQL
 RTRQNLWEIEIARKYQSKEDPLGGSLVMVCDINREMLKVGKQKALARGHTAGLAWVLGDAEELPFDDDRF
 DVYTIAFGIRNVTHIDRALQEHRVLPKGGFRFLCLEFSQVNDPLISRLYDLYSFQVIPVIGEVIAGDWKS
 YQYLVESIRKFPNQEEFKMIEDAGFQKVYESLTSGIVAIHSGFKL

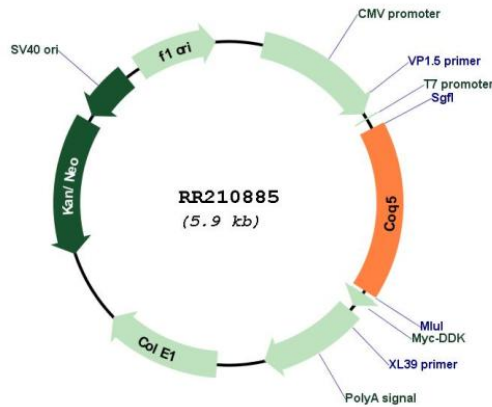
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001039022

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:	<ol style="list-style-type: none"> 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_001039022.1 , NP_001034111.1
RefSeq Size:	1606 bp
RefSeq ORF:	984 bp
Locus ID:	304542
UniProt ID:	Q4G064
Cytogenetics:	12q16
MW:	37.3 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]