

Product datasheet for **RG210466**

COQ5 (NM_032314) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	COQ5 (NM_032314) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	COQ5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210466 representing NM_032314 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCCCGGGAGCTGTGCCCTATGGAGCTATTGCGGCCGTGGTGGTTCGGGGCGATGCGGGGCT
GCCAGTCCTCGGGCTTCGTAGCTCTTGGCCCGGGGACCTACTAAGTGCTCGGCTCTTGCCCAAGAGAA
GCGGGCAGCGGAAACGCACTTTGGGTTTGGAGACTGTGTCGGAAGAGGAGAAGGGGGCAAAGTCTATCAG
GTGTTTAAAAGTGTGGCTAAGAAGTATGATGTGATGAATGATGATGAGTCTTGGTATCCATCGTGT
GGAAGGATTTGCTGCTCGGAAGATGCACCCGCTTCTGGGACCCAGCTGCTTGATGTTGCTGGAGGCAC
AGGTGACATTGCATTCGGTTCCTTAATTATGTTCAAGTCCAGCATCAGAGAAAACAGAAGAGGCAGTTA
AGGGCCCAACAAAATTTATCCTGGGAAGAAATTGCCAAAGAGTACCAGAATGAAGAAGATTCCTTGGGCG
GGTCTCGTGTGCTGGTGTGACATCAACAAGGAGATGCTAAAGGTTGGAAGCAGAAAGCCTTGCTCA
AGGATACAGAGCTGGACTTGCATGGGTATTAGGAGATGCTGAAGAACTGCCCTTTGATGATGACAAGTTT
GATATTTACACCATTCCTTTGGGATCCGGAATGTCACACACATTGATCAGGCACTCCAGGAAGCTCATC
GGGTGCTGAAACCAGGAGGACGGTTTCTCTGTCTGGAATTTAGCCAAGTGAACAATCCCCTCATATCCAG
GCTTTATGATCTATATAGCTTCCAGTTCATCCCTGTCTGGGAGAGGTGATCGCTGGAGACTGGAAGTCC
TATCAGTACCTTTGATAGAGATATCCGAAGTTTCCGTCTCAGGAAGAGTTCAAGGACATGATAGAAGATG
CAGGCTTTCACAAGGTGACTTACGAAAGTCTAACATCAGGCATTGTGGCCATTCTCTGGCTTCAA
CT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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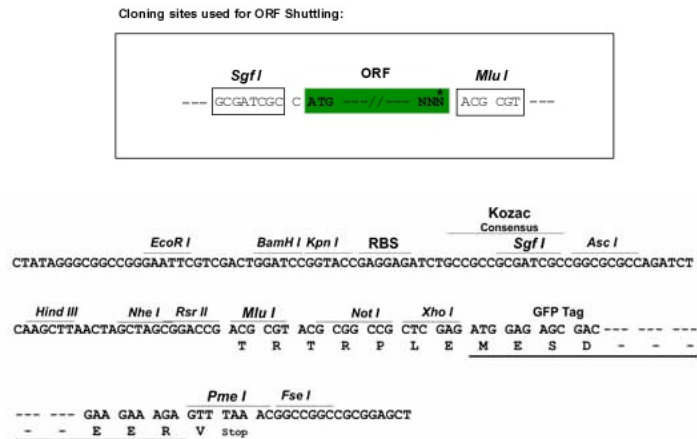
Protein Sequence: >RG210466 representing NM_032314
 Red=Cloning site Green=Tags(s)

MAAPGSCALWSYCGRGWSRAMRGCQLLGLRSSWPGDLLSARLLSQEKRAAETHFGFETVSEEEKGGKVYQ
 VFESVAKKYDVMNDMMSLGIHRVWKDLLWKMHLPLPGTQLLDVAGGTGDIAFRFLNYYVQSQHQRKQKRQL
 RAQQNLSWEEIAKEYQNEEDSLGSRVVCDDINKEMLKVGKQKALAQGYRAGLAWVLGDAEELPFDDDKF
 DIYTIAFGIRNVTHIDQALQEHRVLPKGGFRFLCLEFSQVNNPLISRLYDLYSFQVIPVLGEVIAGDWKS
 YQYLVESIRRRFPSQEFEFKDMIEDAGFHKVITYESLTSGIVAIHSGFKL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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_032314.3](#), [NP_115690.3](#)

RefSeq Size: 1530 bp

RefSeq ORF: 984 bp

Locus ID: 84274

UniProt ID: [Q5HYK3](#)

Cytogenetics: 12q24.31

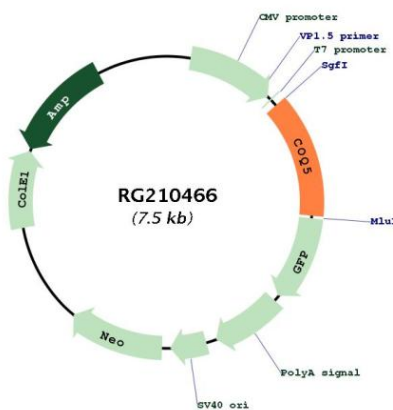
Domains: Ubie_methyltran

Protein Families: Druggable Genome

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

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 RG210466