

Product datasheet for **RG220317**

COQ7 (NM_016138) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	COQ7 (NM_016138) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	COQ7
Synonyms:	CAT5; CLK-1; CLK1; COQ10D8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG220317 representing NM_016138 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTTGCGCCGGGGCGGCGGGCTCCCGCCTTTGGCGGCTGCGCCGGGGGCCGGCGGTCCCTCT
CAGCTTATGGAAGAAGAACCAGTGTGAGATTCGAGTTCAGGAATGACTTTAGACAATATCAGTCGGGC
AGCTGTGGATCGAATAATCCGGGTGGATCATGCAGGCGAATATGGAGCAAACCGCATCTATGCCGGGCAG
ATGGCTGTCTGGGTCCGACCAGCGTCGGGCCAGTCATTCAGAAAATGTGGGATCAAGAAAAGACCATT
TGAAAAAGTTCAATGAGTTGATGTTACGTTCCAGGGTCCGGCCAACAGTCTGATGCCCTTGTGGAACGT
GCTGGGGTTTGCCTGGGGCGGGACCGCCTTGCCTCGGGAAGGAAGGTGCCATGGCCTGCACCGTGGCG
GTGGAAGAGAGCATAGCACATCACTACAACAACCAGATCAGGACGCTGATGGAGGAGGACCTGAAAAAT
ACGAGGAACCTTTCAGCTGATAAAGAAATTTCCGGATGAAGAGCTTGAGCACCATGACATAGGCCTCGA
CCATGATGCAGAATTGGCTCCAGCCTATGCCGTCTGAAGAGCATTATCCAGGCCGGATGCAGAGTGGCG
ATATATTTATCAGAAAGATTA

ACGCGTACGCGGGCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG220317 representing NM_016138
Red=Cloning site Green=Tags(s)

MSCAGAAAAPRLWRLRPGARRSL SAYGRRTSVRFRSSGMTLDNISRAAVDRIIRVDHAGEYGANRIYAGQ
 MAVLGRTSVGPVIQKMWDQEKDHLKFKNELMVTFRVRPTVLMPLWNVLGFALGAGTALLGKEGAMACTVA
 VEESIAHHYNNQIRTLMEEDPEKYEELLQLIKKFRDEELEHHDIGLDHDAELAPAYAVLKSIIQAGCRVA
 IYLSERL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016138

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_016138.5](#)

RefSeq Size: 2591 bp

RefSeq ORF: 654 bp

Locus ID: 10229

UniProt ID: [Q99807](#)

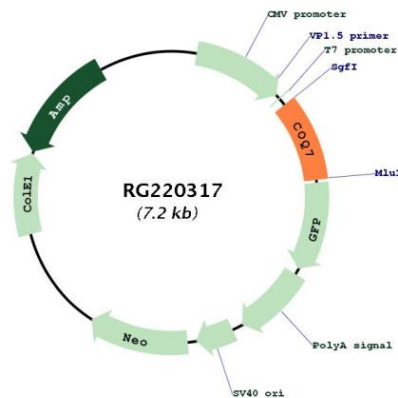
Cytogenetics: 16p12.3

Domains: COQ7

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

Gene Summary: The protein encoded by this gene is similar to a mitochondrial di-iron containing hydroxylase in *Saccharomyces cerevisiae* that is involved with ubiquinone biosynthesis. Mutations in the yeast gene lead to slower development and longer life span. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jul 2010]

Product images:



Circular map for RG220317