

Product datasheet for **RC220317**

COQ7 (NM_016138) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: COQ7 (NM_016138) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: COQ7
Synonyms: CAT5; CLK-1; CLK1; COQ10D8
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC220317 representing NM_016138
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTTGCGCCGGGGCGGCGGGCTCCCCGCCTTTGGCGGCTGCGCCGGGGGCCGGCGGTCCCTCT
CAGCTTATGGAAGAAGAACCAGTGTGAGATTCGAGTTCAGGAATGACTTTAGACAATATCAGTCGGGC
AGCTGTGGATCGAATAATCCGGGTGGATCATGCAGGCGAATATGGAGCAAACCGCATCTATGCCGGGCAG
ATGGCTGTCTGGGTCCGACCAGCGTCGGGCCAGTCATTCAGAAAATGTGGGATCAAGAAAAGACCATT
TGAAAAAGTTCAATGAGTTGATGTTATGTTCCAGGGTCCGGCCAACAGTTCTGATGCCCTTGTTGAAACGT
GCTGGGGTTTGCCTGGGGCGGGACCGCCTTGCTCGGGAAGGAAGGTGCCATGGCCTGCACCGTGGCG
GTGGAAGAGAGCATAGCACATCACTACAACAACAGATCAGGACGCTGATGGAGGAGGACCTGAAAAAT
ACGAGGAACCTTTCAGCTGATAAAGAAATTTCCGGATGAAGAGCTTGAGCACCATGACATAGGCCTCGA
CCATGATGCAGAATTGGCTCCAGCCTATGCCGTCTGAAGAGCATTATCCAGGCCGGATGCAGAGTGGCG
ATATATTTATCAGAAAGATTA

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC220317 representing NM_016138
Red=Cloning site Green=Tags(s)

MSCAGAAAAPRLWRLRPGARRSL SAYGRRTSVRFRSSGMTLDNISRAAVDRIIRVDHAGEYGANRIYAGQ
 MAVLGRTSVGPVIQKMWQEKDHLKFKFNELMVMFRVPTVLMPLWNVLGFALGAGTALLGKEGAMACTVA
 VEESIAHHYNNQIRTLMEEDPEKYEELLQLIKKFRDEELEHHDIGLDHDAELAPAYAVLKSIIQAGCRVA
 IYLSERL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6484_a12.zip

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_016138.2](#)

RefSeq Size: 2591 bp

RefSeq ORF: 654 bp

Locus ID: 10229

UniProt ID: [Q99807](#)

Cytogenetics: 16p12.3

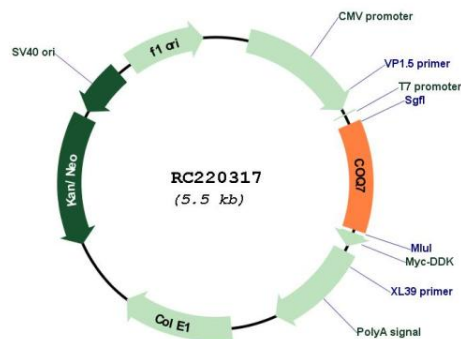
Domains: COQ7

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

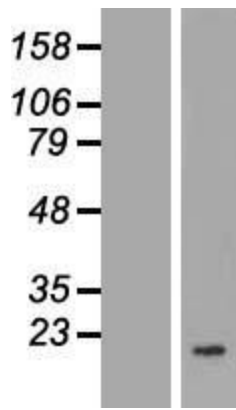
MW: 24.1 kDa

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]

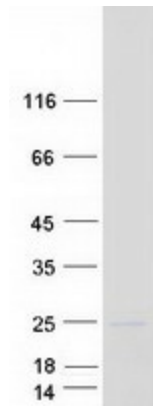
Product images:



Circular map for RC220317



Western blot validation of overexpression lysate (Cat# [LY414165]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220317 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified COQ7 protein (Cat# [TP320317]). The protein was produced from HEK293T cells transfected with COQ7 cDNA clone (Cat# RC220317) using MegaTran 2.0 (Cat# [TT210002]).