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Product datasheet for RC230768

COQ7 (NM_001190983) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	COQ7 (NM_001190983) 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:

>RC230768 representing NM_001190983
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACTTTAGACAATATCAGTCGGGCAGCTGTGGATCGAATAATCCGGGTGGATCATGCAGGCGAATATG
GAGCAAACCGCATCTATGCCGGGCAGATGGCTGTCCTGGGTCGGACCAGCGTCGGGCCAGTCATTCAGAA
AATGTGGGATCAAGAAAAGGACCATTTGAAAAAGTTCAATGAGTTGATGGTTACGTTCAGGGTCCGGCCA
ACAGTTCTGATGCCCTTGTGGAACGTGCTGGGGTTTGCACTGGGGGCGGGGACCGCCTTGCTCGGGAAGG
AAGGTGCCATGGCCTGCACCGTGGCGGTGGAAGAGAGCATAGCACATCACTACAACAACCAGATCAGGAC
GCTGATGGAGGAGGACCCTGAAAAATACGAGGAACTTCTTCAGCTGATAAAGAAATTTCGGGATGAAGAG
CTTGAGCACCATGACATAGGCCTCGACCATGATGCAGAATTGGCTCCAGCCTATGCCGTCCTGAAGAGCA
TTATCCAGGCCGGATGCAGAGTGGCGATATATTTATCAGAAAGATTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC230768 representing NM_001190983
Red=Cloning site Green=Tags(s)

MTLDNISRAAVDRIIRVDHAGEYGANRIYAGQMAVLGRTSVGPVIQKMWDQEKDHLKKFNELMVTFRVRP
TVLMPLWNVLGFALGAGTALLGKEGAMACTVAVEESIAHHYNNQIRTLMEEDPEKYEELLQLIKKFRDEE
LEHHDIGLDHDAELAPAYAVLKSIIQAGCRVAIYLSERL

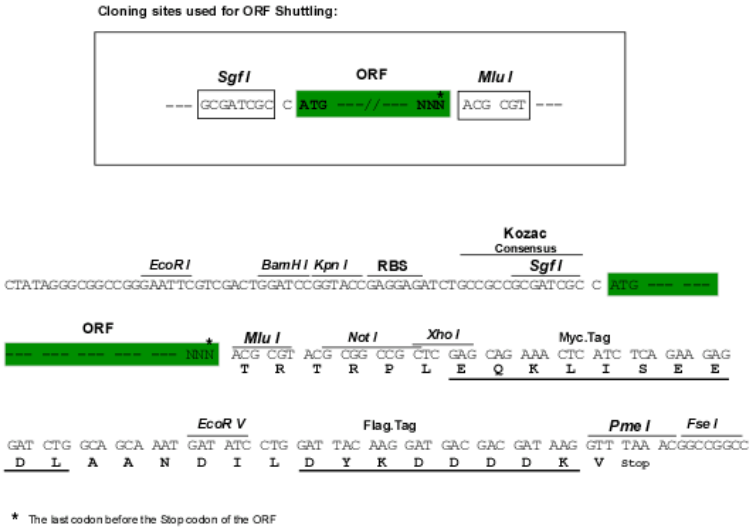
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1462_e08.zip

View online »

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001190983

ORF Size: 537 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_001190983.2

RefSeq ORF: 540 bp

Locus ID: 10229

UniProt ID: Q99807

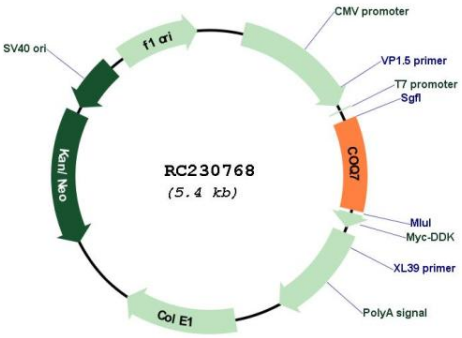
Cytogenetics: 16p12.3

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

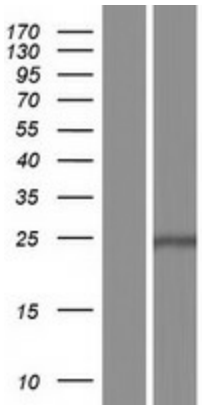
MW: 20.6 kDa

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 RC230768



Western blot validation of overexpression lysate (Cat# [LY433767]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC230768 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).