

Product datasheet for RC213638

UQCRQ (NM_014402) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: UQCRQ (NM_014402) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: UQCRQ
Synonyms: MC3DN4; QCR8; QP-C; QPC; UQCR7
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC213638 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGGATCGCC

ATGGGCCGCGAGTTTGGGAATCTGACGCGGATGCGGCATGTGATCAGCTACAGCTTGTACCGTTTCGAGC
 AGCGCGCCTATCCGCACGTCTTCACTAAAGGAATCCCAATGTTCTGCGCCGATTTCGGAGTCTTTCTT
 TCGCGTGGTGCCGAGTTTGTAGTGTATCTTATCTACACATGGGGACTGAAGAGTTCGAGAGATCC
 AAGAGGAAGAATCCAGCTGCCTATGAAAATGACAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC213638 protein sequence
 Red=Cloning site Green=Tags(s)
 MGREFGNLTRMRHVISYSLSPFEQRAYPHVFTKGIPNVLRRIRESFFRVVPQFVVFYLIYTWGTEEFERS
 KRKNPAAYENDK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6718_c01.zip

Restriction Sites: Sgfl-Mlul



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Cloning Scheme:


ACCN: NM_014402

ORF Size: 246 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_014402.5](#)

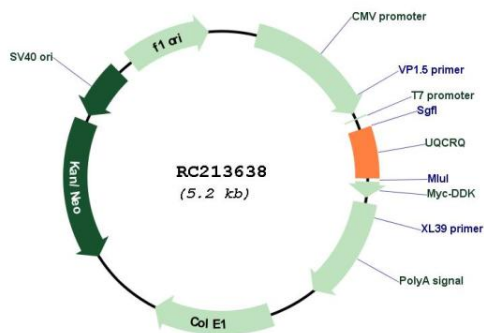
RefSeq Size: 1585 bp

RefSeq ORF: 249 bp

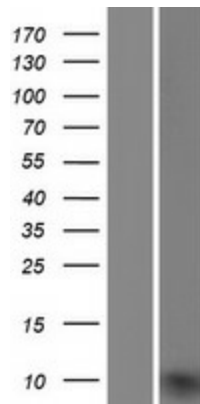
Locus ID: 27089

UniProt ID: [O14949](#)
Cytogenetics: 5q31.1
Domains: UcrQ
Protein Pathways: Alzheimer's disease, Cardiac muscle contraction, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease
MW: 9.9 kDa
Gene Summary: This gene encodes a ubiquinone-binding protein of low molecular mass. This protein is a small core-associated protein and a subunit of ubiquinol-cytochrome c reductase complex III, which is part of the mitochondrial respiratory chain. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC213638



Western blot validation of overexpression lysate (Cat# [LY415296]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC213638 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).