

Product datasheet for **RC202685**

UQCRB (NM_006294) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: UQCRB (NM_006294) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: UQCRB
Synonyms: MC3DN3; QCR7; QP-C; QPC; UQBC; UQBP; UQCR6; UQPC
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC202685 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGGTAAGCAGGCCGTTTCAGCATCAGGCAAGTGGCTGGATGGTATTCGAAAATGGTATTACAATG
CTGCAGGATCAATAAACTGGGTTAATGCGAGATGATACAATATACGAGGATGAAGATGTAAAAGAAGC
CATAAGAAGACTTCCTGAGAACCTTTAATGACAGGATGTTTCGCATTAAGAGGGCACTGGACCTGAAC
TTGAAGCATCAGATCTTGCTAAAGAGCAGTGGACCAAATATGAAGAGGAAAATTTCTACCTTGAACCGT
ATCTGAAAGAGGTTATTCGGGAAAGAAAAGAAAGAGAAGATGGGCAAAGAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC202685 protein sequence
Red=Cloning site Green=Tags(s)
MAGKQAVSASGKWL DGIK WYYNAAGFNKLG LMRDDTIYEDEDVKEAIRRLPENLYNDRMFRIKRALDLN
LKHQILPKEQWTKYEEENFYLEPYLKEVIRERKEREEWAKK

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6415_d11.zip

Restriction Sites: SgfI-MluI



[View online »](#)

Cloning Scheme:


ACCN: NM_006294

ORF Size: 333 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_006294.5](#)

RefSeq Size: 4839 bp

RefSeq ORF: 336 bp

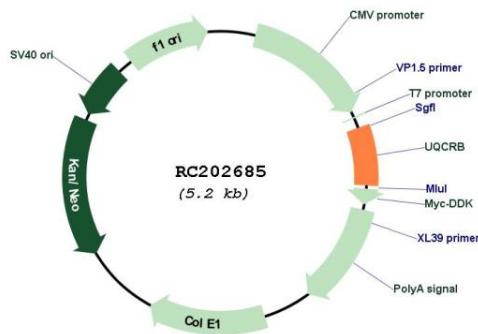
Locus ID: 7381
UniProt ID: [P14927](#)
Cytogenetics: 8q22.1
Domains: UCR_14kD

Protein Pathways: Alzheimer's disease, Cardiac muscle contraction, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease

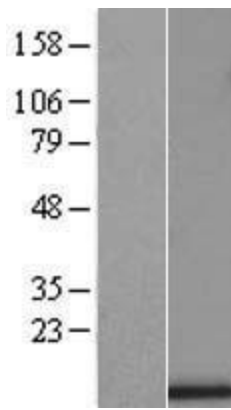
MW: 13.5 kDa

Gene Summary: This gene encodes a subunit of the ubiquinol-cytochrome c oxidoreductase complex, which consists of one mitochondrial-encoded and 10 nuclear-encoded subunits. The protein encoded by this gene binds ubiquinone and participates in the transfer of electrons when ubiquinone is bound. This protein plays an important role in hypoxia-induced angiogenesis through mitochondrial reactive oxygen species-mediated signaling. Mutations in this gene are associated with mitochondrial complex III deficiency. Alternatively spliced transcript variants have been found for this gene. Related pseudogenes have been identified on chromosomes 1, 5 and X. [provided by RefSeq, Dec 2011]

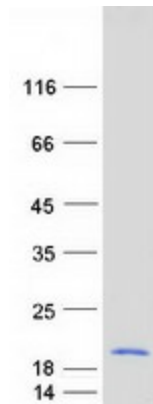
Product images:



Circular map for RC202685



Western blot validation of overexpression lysate (Cat# [LY416737]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202685 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified UQCRB protein (Cat# [TP302685]). The protein was produced from HEK293T cells transfected with UQCRB cDNA clone (Cat# RC202685) using MegaTran 2.0 (Cat# [TT210002]).