

## Product datasheet for **RG202685**

### UQCRB (NM\_006294) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** UQCRB (NM\_006294) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** UQCRB  
**Synonyms:** MC3DN3; QCR7; QP-C; QPC; UQBC; UQBP; UQCR6; UQPC  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG202685 representing NM\_006294  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGGTAAGCAGGCCGTTTCAGCATCAGGCAAGTGGCTGGATGGTATTCGAAAATGGTATTACAATG  
CTGCAGGATCAATAAACTGGGGTTAATGCGAGATGATAAATACGAGGATGAAGATGTAAAAGAAGC  
CATAAGAAGACTTCCTGAGAACCTTTAATGACAGGATGTTTCGCATTAAGAGGGCACTGGACCTGAAC  
TTGAAGCATCAGATCTTGCTAAAGAGCAGTGGACCAAATATGAAGAGGAAAATTTCTACCTGAACCGT  
ATCTGAAAGAGGTTATTCGGGAAAGAAAAGAGAAGAATGGGCAAAGAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG202685 representing NM\_006294  
Red=Cloning site Green=Tags(s)  
MAGKQAVSASGKWL DGIRK WYNAAGFNKLG LMRDDTIYEDEDVKEAIRRLPENLYNDRMFRIKRALDLN  
LKHQILPKEQWTKYEEENFYLEPYLKEVIRERKEREWAKK

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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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.

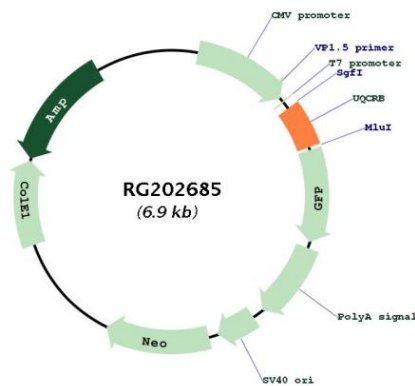
RefSeq: [NM\\_006294.5](#)

RefSeq Size: 965 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  
**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 RG202685