

Product datasheet for **RG203299**

Ubiquinol Cytochrome C Reductase Core Protein I (UQCRC1) (NM_003365) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ubiquinol Cytochrome C Reductase Core Protein I (UQCRC1) (NM_003365) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ubiquinol Cytochrome C Reductase Core Protein I
Synonyms:	D3S3191; QCR1; UQCR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG203299 representing NM_003365
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCGGCGTCCGTGGTCTGTCTGGGCGCTACCGCCGGGCAACAAGTCTATTGCGGCCCGCCGCTCGC
 CGGCCCTGCTGCGGACGCCAGCCTTGGGAGTACGGCAACCTTCGCTCAGGCGCTCCAGTTCGTGCCGGA
 GACGCAGTTAGCCTGCTGGACAACGGCCTGCGTGTGGCCTCCGAGCAGTCTCTCAGCCCACTTGACAG
 GTGGGAGTGTGGATTGATGTTGGCAGCCGTTTTGAGACTGAGAAGAATAATGGGGCAGGCTACTTTTTGG
 AGCATCTGGCTTCAAGGGAACAAGAATCGGCCCTGGCAGTGCCTGGAGAAGGAGGTGGAGAGCATGGG
 GGCCCATCTTAATGCCTACAGCACCCGGGAGCACACAGCTTACTACATCAAGGCGCTGTCCAAGGATCTG
 CCGAAAGCTGTGGAGCTCCTGGGTGACATTGTGCAGAAGTGTAGTCTGGAAGACTCACAGATTGAGAAGG
 AACGTGATGTGATCCTGCGGGAGATGCAGGAGAATGATGCATCTATGCGAGATGTGGTCTTAACTACCT
 GCATGCCACAGCATTCCAGGGCACACCTTAGCCAGGCTGTGGAGGGGCCAGTGAGAATGTCAGGAAG
 CTGTCTCGTGCAGACTTGACCGAGTACCTCAGCACACATTACAAGGCCCTCGAATGGTGCCTGGCAGCAG
 CTGGAGGAGTGGAGCACCAGCAACTGTTAGACCTCGCCAGAAGCACCTCGGTGGCATCCCATGGACATA
 TGCAGAGGACGCTGTGCCCACTTACTCCATGCCGCTTCACTGGCAGTGAATCCGCCACCGTGTGAT
 GCTCTACCTTTTGCACAGTGGCCATTGCAGTAGAGGGTCTGGCTGGGCCAGCCCGGACAATGTGGCCT
 TGCAAGTGGCCATGCCATCATCGGCCACTATGACTGCACTTATGGTGGTGGCGTGCACCTGTCCAGCCC
 ACTGGCTTCAGGTGCTGTGGCCAACAAGCTATGCCAGAGTTTCCAGACCTTCCAGCATCTGCTATGCAGAG
 ACGGGCTTGTGGTGCACACTTGTCTGTGACCGAATGAAAATCGATGACATGATGTTTCGTCCTGCAAG
 GGCAGTGGATGCGCCTGTGTACCAAGTCCACGGAGAGTGGTGGCCCGGGGCAAAAACATCCTCAGAAA
 TGCCCTGGTATCTCATCTAGATGGCACTACTCCTGTGTGTGAGGACATCGGACGCAGCCTCCTGACCTAT
 GGCCGCCGCATCCCCCTGGCTGAATGGGAAAGCCGGATTGCGGAGGTGGATGCCAGTGTGGTACGTGAGA
 TCTGCTCCAAGTACATCTATGACCAGTCCCGAGCAGTGGCTGGATATGGCCCATGAGCAGCTCCAGAG
 CTACAACCGGATCCGTAGCGGCATGTTCTGGTGCCTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG203299 representing NM_003365
 Red=Cloning site Green=Tags(s)

MAASVVCRAATAGAQVLLRARRSPALLRTPALRSTATFAQALQFVPETQVSLLDNGLRVASEQSSQPTCT
 VGVWIDVGSRFETEKNGAGYFLEHLAFKGTKNRPGSALEKEVESMG AHLNAYSTREHTAYYIKALSKDL
 PKAVELLGDIVQNCSEDSQIEKERDVILREMQENDASMRDVVFNYLHATAFQGTPLAQAVEGPESENVRK
 LSRADLTEYLSTHYKAPRMVLAAGGVEHQQLDLAQKHLGGIPWYAEDA VPTLTPCRFTGSEIRHRDD
 ALPFAHVAIAVEGPGWASPDNVALQVANAII GHYDCTYGGGVHLSPLASGAVANKLCQSFQTF SICYAE
 TGLLGAHFVCDRMKIDMMFVLQGWMLR LCTSA TESEVARGKNILRNALVSHLDGTT PVCEDIGRSL LTY
 GRRIP LAEWESRIA EVDASVVREIC SKYIYDQCPAVAGYGP IELPDYNRIRSGMFWLRF

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_003365

ORF Size: 1440 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_003365.3](#)

RefSeq Size: 1636 bp

RefSeq ORF: 1443 bp

Locus ID: 7384

UniProt ID: [P31930](#)

Cytogenetics: 3p21.31

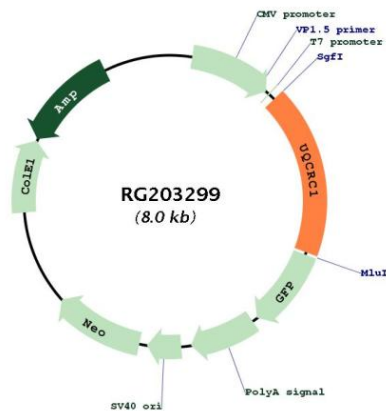
Domains: Peptidase_M16, Peptidase_M16_C

Protein Families: Druggable Genome, Protease

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

Gene Summary: This is a component of the ubiquinol-cytochrome c reductase complex (complex III or cytochrome b-c1 complex), which is part of the mitochondrial respiratory chain. This protein may mediate formation of the complex between cytochromes c and c1.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG203299