

Product datasheet for **RG201132**

UQCRC2 (NM_003366) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UQCRC2 (NM_003366) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	UQCRC2
Synonyms:	MC3DN5; QCR2; UQCR2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG201132 representing NM_003366
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGCTACTAACCAGAGCCGGCTCTTTCTCGAGATTTTATCCCTCAAAGTTGCCCCAAAGTTAAAG
 CCACAGCTGCGCCTGCAGGAGCACCGCCACAACCTCAGGACCTTGAGTTTACCAAGTTACCAATGGCTT
 GGTGATTGCTTCTTTGGAAAATATTCTCTGTATCAAGAATTGGTTTGTTCATTAAAGCAGGCAGTAGA
 TATGAGGACTTCAGCAATTTAGGAACCACCCATTTGCTGCGTCTTACATCCAGTCTGACGACAAAAGGAG
 CTTTCATCTTTCAAGATAACCCGTGGAATTTGAAGCAGTTGGTGGCAAATTAAGTGTGACCGCAACAAGGA
 AAACATGGCTTATACTGTGGAATGCCTGCGGGGTGATGTTGATTTCTAATGGAGTTCCTGCTCAATGTC
 ACCACAGCACCAGAATTCGTCGTTGGGAAGTAGCTGACCTTCAGCCTCAGCTAAAGATTGACAAAGCTG
 TGGCCTTTCAGAATCCGACAGCTCATGTCATTGAAAATTTGCATGCAGCAGCTTACCGGAATGCCTTGGC
 TAATCCCTTGATTGTCCTGACTATAGGATTGGAAAAGTGACATCAGAGGAGTTACATTACTTCGTTTCAG
 AACCATTTCAAGTGAAGAATGGCTTTGATTGGACTTGGTGTGAGTCATCCTGTTCTAAAGCAAGTTG
 CTGAACAGTTTCTCAACATGAGGGGTGGCTTGGTTTATCTGGTGCAAAGGCCAACTACCGTGGAGGTGA
 AATCCGAGAACAGAATGGAGACAGTCTTGTCCATGCTGCTTTTGTAGCAGAAAAGTGTGTCGCGGGAAGT
 GCAGAGGCAATGCATTTAGTGTCTTCAGCATGTCCTCGGTGCTGGGCCACATGTCAAGAGGGGCAGCA
 ACACCACCAGCCATCTGCACCAGGCTGTTGCCAAGGCAACTCAGCAGCCATTTGATGTTTCTGCATTTAA
 TGCCAGTTACTCAGATTTGACTCTTTGGGATTTATACTATCTCCAGGCCACAGCTGCTGGAGATGTT
 ATCAAGGCTGCCTATAATCAAGTAAAAACAATAGCTCAAGGAAACCTTTCCAACACAGATGTCCAAGCTG
 CCAAGAACAAGCTGAAAGCTGGATACCTAATGTCAGTGGAGTCTTCTGAGTGTTCCTGGAAGAAGTCGG
 GTCCCAGGCTCTAGTTGCTGGTTCTTACATGCCACCATCCACAGTCCTTACGAGATTGATTCAGTGGCT
 AATGCTGATATCATAAATGCGGCAAGAAGTTGTTTCTGGCCAGAAGTCAATGGCAGCAAGTGGAAATT
 TGGACATACACCTTTTGTGATGAGTTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG201132 representing NM_003366
 Red=Cloning site Green=Tags(s)

MKLLTRAGSFSRFYSLKVAPKVKATAAPAGAPPQPQDLEFTKLPNGLVIASLENYSPVSRIGLFIKAGSR
 YEDFSNLGTTLLRLTSSLTTKGASSFKITRGIEAVGGKLSVTATRENMAYTVECLRGDVIDLMEFLLNV
 TTAPEFRRWEVADLQPQLKIDKAVAFQNPQTHVIENLHAAAYRNALANPLYCPDYRIGKVTSEELHYFVQ
 NHFTSARMALIGLVSHPVVKQVAEQFLNMRGGLGLSGAKANYRGGIIEQNGDSLVAHAFFVAESAVAGS
 AEANAFSVLQHVLAGPHVKRGSNTTSHLHQAVAKATQQPFVSAFNASYSDSGLFGIYTIISQATAAGDV
 IKAAYNQVKTIAQGNLSNTDVQAAKNLKGAGYLMVESSECFLEEVGSQALVAGSYMPPSTVLQQIDSVA
 NADIINAAKKFVSGQKSMAASGNLGHPTPFVDEL

TRTRPLE – GFP Tag – V

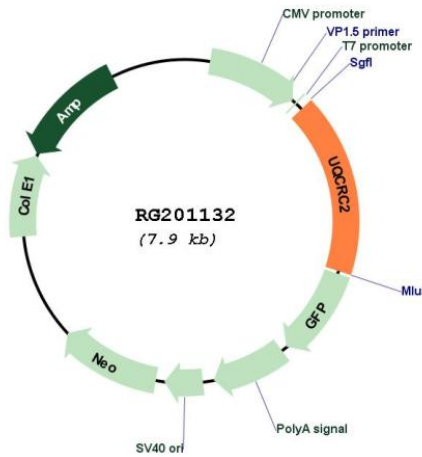
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_003366

ORF Size: 1359 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:	<ol style="list-style-type: none">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_003366.4
RefSeq Size:	1674 bp
RefSeq ORF:	1362 bp
Locus ID:	7385
UniProt ID:	P22695
Cytogenetics:	16p12.2
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:	The protein encoded by this gene is located in the mitochondrion, where it is part of the ubiquinol-cytochrome c reductase complex (also known as complex III). This complex constitutes a part of the mitochondrial respiratory chain. Defects in this gene are a cause of mitochondrial complex III deficiency nuclear type 5. [provided by RefSeq, Jul 2015]