

Product datasheet for **RG203684**

CCDC90A (MCUR1) (NM_001031713) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CCDC90A (MCUR1) (NM_001031713) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MCUR1
Synonyms:	C6orf79; CCDC90A; FMP32
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203684 representing NM_001031713 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACTCGGGCTCGGTGGGGCCAGAGGACCCAGCGCCTGCCCGGCCAGCGGTTCTCTTCTTGC
CCGTGGGCTCAGCGGAAGACCGGGCGGCAGCAAACCTCAGCACGCCGCTGCCTCTCTGCGCTCCGA
CGGTCTGGGGCGCTGCGCCCTCGCGCCCGGGCGCCCGGGCGGCGTGTACGTGCCTCACCGCTGCTC
CTCTCTGCTAGTGCCTCCCCGCTTGGCCGCGCAGCCCCGCGCCGCGAGCTCGGGACTGGGAGC
GCTCGCGCTCGGTATGCCGACCCCCGGCGCGCAGCAGCGCTGGAGGTGCTCACCGGGCGTCGC
CGCTGCCCGCGGCCCTTCCCCAGTACCACGGCCCGGCCCTGCACTCGTTTCTGCAGGAGAGAGCTA
AGCTTGTCTGCTGGATCCCTGCAGCTGGAGCGCAAAGGAGAGATTTACCTCTTCTGGGAGCAGGAAAC
TCTACTTCGACTCATGCCTTAGTGTGCTTACTGGAAGACAATGGGTTTCTACTCAACAAGCAGAAAT
CATTGTGTCTGCATTGGTCAAGATCCTGGAGGCCAACATGGACATCGTCTACAAAGATATGGTCACCAAG
ATGCAGCAGGAAATCACTTTTCAGCAAGTAATGTCTCAGATTGCGAATGTGAAAAAGGATATGATTATTT
TGGAGAAGAGTGAATTTTCAGCCCTCAGAGCAGAAAATGAGAAAATAAACTCGAACTACATCAGTTAAA
ACAACAAGTAATGGATGAAGTATCAAAGTCCGAACAGATACCAAATTAGACTTCAACCTAGAAAAGAGC
AGAGTAAAAGAATTGTATTCAATTGAACAAAAGAAGCTGCTGGAATTGAGAACAGAAAATAGTGCCATTGC
ATGCCAGCAAGATCGGGCCCTTACCCAGACAGACAGGAAGATCGAAACTGAGGTTGCTGGCCTCAAAC
CATGCTTGAGTCACAAAGCTTGATAATATTAATATTTAGCAGGCTATATTTACGTGCCTAACAGTA
GCTCTGGGATTTATCGCTGTGGATC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >RG203684 representing NM_001031713
Red=Cloning site Green=Tags(s)

MDCGSVGGQRTQRLPGRQRLFLPVGLSGRPGGSETSARRCLSALSDGLGALRPRAPAARGGVSRASPLL
 LLLLVPSPRLAAAAPRRQLGDWERSRLGYAAPAGRSSAWRCSFGVAAAAGALPQYHGPAPALVSCRREL
 SLSAGSLQLERKRRDFTSSGSRKLYFDTHALVCLLEDNGFATQQAEEIVSALVKILEANMDIVYKDMVTK
 MQQEITFQQVMSQIANVKKDMIILEKSEFSALRAENEKIKLELHQLKQQVMDEVIKVRTDTKLDFNLEKS
 RVKELYSLNEKKLLELRTEIVALHAQQDRALTQTRDKIETEVAGLKTMLESHKLDNIKYLAGSIFTLCTV
 ALGFYRLWI

TRTRPLE - GFP Tag - V

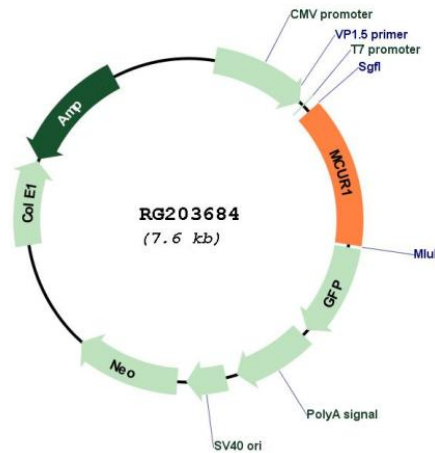
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001031713

ORF Size:	1077 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_001031713.3 , NP_001026883.1
RefSeq Size:	1248 bp
RefSeq ORF:	1080 bp
Locus ID:	63933
UniProt ID:	Q96AQ8
Cytogenetics:	6p23
Protein Families:	Transmembrane
Gene Summary:	Key regulator of mitochondrial calcium uniporter (MCU) required for calcium entry into mitochondrion (PubMed:23178883, PubMed:26445506, PubMed:27184846, PubMed:26976564). Plays a direct role in uniporter-mediated calcium uptake via a direct interaction with MCU (PubMed:23178883). Probably involved in the assembly of the membrane components of the uniporter complex (uniplex) (PubMed:27184846). [UniProtKB/Swiss-Prot Function]