

Product datasheet for MC211710

Mcur1 (NM_001081059) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mcur1 (NM_001081059) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mcur1
Synonyms:	6230416A05Rik; AU015498; AV136929; AW554392; C88263; Ccdc90a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC211710 representing NM_001081059 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACAGCGGCTCCGTGGCGGCCGAGCGGCCGAGGCGCACACCGAGTCGCCAGCGGCTCCCGTCTCCG
GCTGCGGAGTTCCGGCGCGCCCGGGCGTCTCCACGCTGCCCGGTGGACGAAGCTGGCTGAGGCCTCGCGG
ACGGGCGGCCCGCGCTCTCCGTGTTGTTCTCTCTGCTCGTGCCCTCCCGCGCCTGGCCGCCACCGCC
ACTGCCACCGCCCGCTAGGACGCTGGCTGAGCGCTCGCGCCCGGGGCTCGTTCTCCCGCGGCCGCGC
TCGGCGCCGCGCAGGAACGCGCTGGGCCGTCTGCGGCTGGGCGCCCGCGTGTGGCCGCGCTTGCGAGCAG
CCGGAGAGAGCTCAGCCTGTCTGCTAAGTGCCATCAGCTGGAGCACAGAAAGAGAACTTGCCCTCTCT
GTGAGCCGGCAGCTCTACTTTGACACCCACGCTCTGGTGTGCTTACTTGAAGCAAATGGGTTTACCATT
AACAGCAGAAATCATTGTGTCTGCACTGGTCAAGATCACAGAGACCAACATGAACATCATCTACAAAGA
CATGGTCAGCAAGATGCAGCAGGAAATCGCTCTCCAGCAGGATTATCTAAGATTGCTAACGTGAAAAA
GATATGGTCATCTTGAGAAGAGTGAGTTTTCAGCCCTCAGAGCAGAAATGAGAAAAATAAACTTGAAC
TGACACAGTTAAAGCAACAAGTGATGGATGAAGTGACCAAGTCCGGACAGATACCAAATTAACCTCAA
TCTAGAAAAAAGCAGAGTAAAGAACTGTACTCGCTGAACGAGAAGAAGTGTGGAAGTGAAGTGAAGTGA
ATAGTGTGCTGCATGCCAGCAAGACAGAGCCCTGACTCAGACAGACCGGAAGATAGAGACGGAGGTGG
CTGGCCTCAAGACGATGCTGGAGGCGCACAAAGTTGATACAATCAAATACTTAGCGGGGTCTGTGTTTAC
GTGCCTAACAGTGGCTCTGGGATTTTATCGCCTGTGGAT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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ACCN:	NM_001081059
Insert Size:	1023 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001081059.3, NP_001074528.1</u>
RefSeq Size:	4368 bp
RefSeq ORF:	1023 bp
Locus ID:	76137
UniProt ID:	<u>Q9CXD6</u>
Cytogenetics:	13 A4
Gene Summary:	Key regulator of mitochondrial calcium uniporter (MCU) required for calcium entry into mitochondrion. Plays a direct role in uniporter-mediated calcium uptake via a direct interaction with MCU. Probably involved in the assembly of the membrane components of the uniporter complex (uniplex).[UniProtKB/Swiss-Prot Function]