

Product datasheet for **RR212789**

Micu2 (NM_134396) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Micu2 (NM_134396) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Micu2
Synonyms:	Efha1; RGD1309934; Smhs2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR212789 representing NM_134396
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCGGCTGCGGGAAGAAGCGCTCGGCTGGCGGCCTGGGGCGAAAGGCTGCGGCGCGGGCTTGCGG
 CGGGCGGACGAGCTGTGCCGAGTCGCGGCCCTCTGGCAGCGGCTGTGGCCGGCGTGGCCCTGGCAGGCGC
 AGGAGCAGCATGGCATCACGGACCGTAAAGCAGCCGCGCGAGAGCACCCCTTACGGGTTGGTGCAG
 AAAAATGACTTGGGACCAATAGAGAAACTTTCTCTCCGAAACAGCGGTTTCATGCAGTTTCTCACTGG
 AGCATGACGGAGAGTATTACATGACGCCCGAGACTTCTCTTCTCAGTGATGTTTGAGCGAATGGATCG
 TAAACACTAGTCAAGAAGCTGGCAAAAAGGATATCGAGGATGTACTGTCAGGAATCCAAACAGCACGT
 TGTGGATCAACGTTTTTAGAGACCTAGGCGATAAAGGGTAATTCATATACTGAGTATCTTTCTTTC
 TTACGATCCTCACAAGCCTCACTCTGGGTTCCATGTTGCTTTTAAAATGCTGGATGCAGATGGTAATGA
 GATGATTGAGAGAAAGGAGTTTGTAAAGCTGCAGAAGATCATAAGTAAGCAAGATGGCTTCAAGACAGTG
 AAGACTAATGAGATAGAATACCAGGAACCAACAGTGAACGAGCCTGGCCTTAACACAACCCCTTCAAGTGC
 GTTTCTTTGGGAAAAGAGGAGAAAAAAGCTTCATTATAAAGAATTTTCAAGATTTATGGAAAATTTACA
 AACAGAAGTTCAAGAAATGGAATTCCTTCAAGTTTCTAAAGGTTTGAATTTTCATGAGAAAAGAAGACTTT
 GCAGAGTGGTACTTTTCTTCACTAACTCTGAAAAAAGACATTTACTGGAAAAATGTGAGAGAAAAGT
 TGTCAAGTAGGAGAGCATTAGTTTGGATGAGTTCAAGTCCTTCTGCCATTTTACAACACATTTGGAAGA
 CTTTCGATCGCCATGCAGATGTTCAAGTTAGCTCATCGCCCTGTGAGGCTGGCGGAGTTCAAGAGAGCT
 GTGAAAGTGGCGACTGGACAAGAGCTTTCCAACAATCTTCTGGACACTGTCTTCAAGATCTTTGACCTGG
 ACGGGGACGAATGCCTCAGCCACGGGGAGTTTCTTGGAGTACTGAAAAACAGGATGCATCGAGGTTTATG
 GGTGTCGACGACGAGAGTGTGCAAGAATACTGGAAGTGCCTGAAGAAGGAAAGCATTAAAGGAGTGAAG
 GAGGCCTGGAACAGCCGGGAAGGGCCCTTTC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTAA

Protein Sequence:

>RR212789 representing NM_134396
 Red=Cloning site Green=Tags(s)

MAAAAGRSARLAAWGERLRRGLAAGGRAVPSRGLAAAVAGVALAGAGAAWHHGRVKAARESTLTGLVQ
 KNDLGP I EKL SLRKQRFMQFSSLEHDGEYYMTPRDFLFSVMFERMDRKTLYKKLAKKDIEDVLSGIQTAR
 CGSTFFRDLDGKGVISYTEYLFLLTILTKPHSGFHVAFKMLDADGNEMIERKEFVKLQKIIISKQDGFKT
 VKTNEIEYQEPVNEPGLNTTLQVRFFGKRGEKLLHYKEFRRFMENLQTEVQEMEFLOFSKGLNFMRKEDF
 AEWLLFFTNSNKDIYKKNVREKLSVGESISLDEFKSFCHFTTHLEDFAIAMQMFSLAHRPVRLAEFKRA
 VKVATGQELSNLLDVTFKIFDLGDDECLSHGEFLGVLKNRMHRGLWVSQQQSVQYWKCVKKEIKGVK
 EAWKQAGKGP

SGP**TRTRPLEQKLISEEDLAANDILDYKDDDDK**V

Chromatograms:

https://cdn.origene.com/chromatograms/ja3473_d02.zip

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:


ACCN: NM_134396

ORF Size: 1293 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_134396.2](#), [NP_599223.2](#)

RefSeq Size: 2348 bp

RefSeq ORF: 1296 bp

Locus ID: 171433

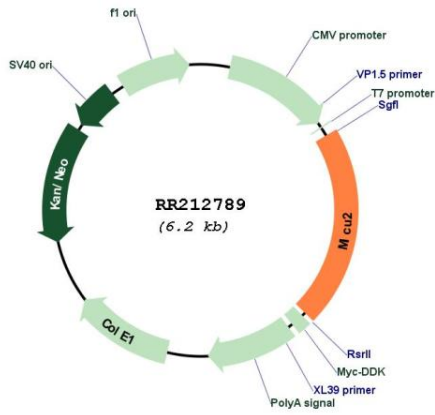
UniProt ID: [Q99P63](#)

Cytogenetics: 15p12

MW: 49.2 kDa

Gene Summary: displays differential expression during soleus muscle disuse atrophy [RGD, Feb 2006]

Product images:



Circular map for RR212789