

Product datasheet for **RC203341**

LRRC39 (NM_144620) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: LRRC39 (NM_144620) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: LRRC39
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC203341 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACAGAAAATGTGGTTTGTACTGGGGCTGTCAATGCTGTAAGGAAGTTTGGGAAAAAGAATAAAGA
AACTCAATGAAGACCTGAAGCGAGAGAAGGAATTTCAACACAAGCTAGTGCGGATCTGGGAAGAACGAGT
AAGCTTAACCAAGCTAAGAGAAAAGTCCAGGGAAGATGGAAGAGTCATTTGAAGATAGAAAAAGAG
GAATGGAAGACCCTCCCTTCTTCTGCTGAAACTGAATCAACTACAGGAATGGCAACTTCATAGAAGT
GTTTGCTGAAAATTCCTGAATTCATTGGAAGATCCAGAACCTCATTGTGTTAGATTTATCTCGAAACAC
AATTTTCAGAGATACCACCAGGGATTGGACTGCTTACTAGACTTCAGGAAGTATTCTCAGCTACAACAAA
ATCAAGACTGTCCCAAGGAAGTAAAGTAATTGTGCCAGCTTGAGAAAAGTAAAGTGGCTGTTAACAGAG
ATATATGTGATCTTCCACAAGAGCTCAGCAATCTGCTAAAAGTACTCACCTTGATCTGAGTATGAACGA
TTTTACTACAATCCCTCTTGCTGTGTTGAACATGCCTGCCCTTGAGTGGCTGGACATGGGAAGCAACAAA
CTTGAACAAGTCTGATACTATAGAAAGAATGCAAAAATCTACATACGTTATGGCTGCAACGAAATGAAA
TAACATGCTTGCCTCAACAATCAGCAATATGAAAAATCTGGGTACTCTGTTCTCAGCAACAATAAAGT
GCAAGATATCCAGTATGCATGGAAGAAATGGCAAAATCTGAGGTTTGTCAACTTCAGAGACAACCCACTG
AAATTGAAAGTATCACTTCTCCAGTGAAGGCACAGATGAAGAAGAGGAACGGGAATTTTGGCCTTC
AGTTTATGCACACATACATACAAGAGTACGGAGAAGAGCAGATACCAAGTCAACGGTTCAACTACTTT
ACCAATCTCCATAAATACGGATGGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RC203341 protein sequence
Red=Cloning site Green=Tags(s)

MTENVVCTGAVNAVKEVWEKRIKKLNEDLKREKEFQHKLVRIWEERVSLTKLREKVTREDGRVILKIEKE
 EWKTLPSSLLKLNQLQEWQLHRTGLLKIPEFIGRFQNLIVLDLSRNTISEIPPGIGLLTRLQELILSYNK
 IKTVPKELSNCASLEKLELAVNRDIDLPQELSNLLKLTHLDLSMDFTTIPLAVLNMPALEWLDMGSNK
 LEQLPDTIERMQNLHTLWLQRNEITCLPQTI SNMKNLGTLLVLSNNKLQDIPVCMEEANLRFVNFDRNPL
 KLVVSLPPSEGTDEEEERELFGLQFMHTYIQESRRRRADHQVNGSTTLPISINTDG

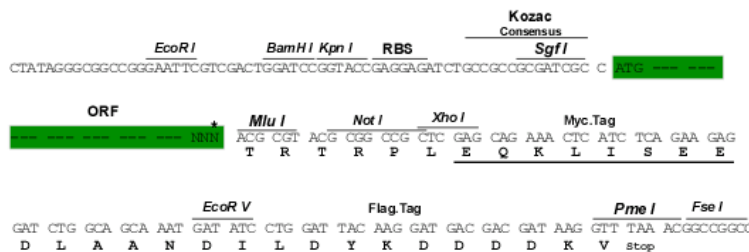
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6428_h10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_144620

ORF Size: 1005 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_144620.4](#)

RefSeq Size: 1865 bp

RefSeq ORF: 1008 bp

Locus ID: 127495

UniProt ID: [Q96DD0](#)

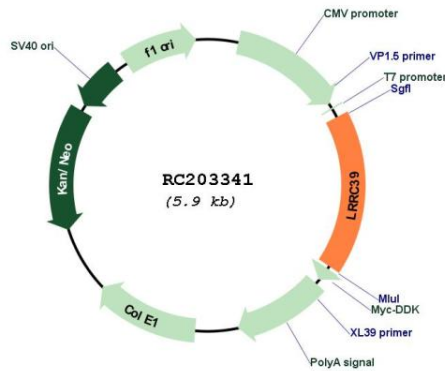
Cytogenetics: 1p21.2

Protein Families: Druggable Genome

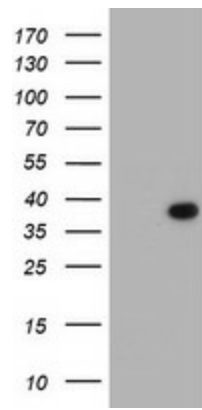
MW: 38.8 kDa

Gene Summary: Component of the sarcomeric M-band which plays a role in myocyte response to biomechanical stress. May regulate expression of other M-band proteins via an SRF-dependent pathway. Important for normal contractile function in heart.[UniProtKB/Swiss-Prot Function]

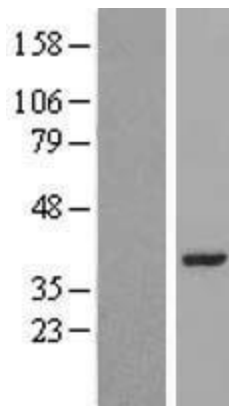
Product images:



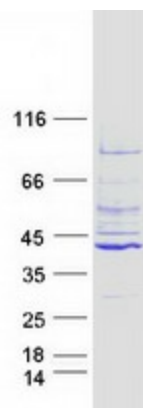
Circular map for RC203341



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY LRRC39 (Cat# RC203341, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-LRRC39(Cat# [TA504656]). Positive lysates [LY408254] (100ug) and [LC408254] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY408254]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203341 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified LRRC39 protein (Cat# [TP303341]). The protein was produced from HEK293T cells transfected with LRRC39 cDNA clone (Cat# RC203341) using MegaTran 2.0 (Cat# [TT210002]).