

Product datasheet for MR201352

CfI2 (NM_007688) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CfI2 (NM_007688) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: CfI2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR201352 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCATCTGGAGTTACAGTGAATGATGAAGTCATCAAAGTTTTTAATGATATGAAAGTAAGAAAATCTT
 CTACACAGGAGGAGATCAAAAAAGAAAGAACAGTTCTTCTGTTTGAGCGATGACAAAAGACAAAT
 AATTGTAGAGGAAGCCAAGCAGATCTTGGTGGGTGACATTTGGTGACACTGTAGAGGACCCCTACACATCT
 TTTGTGAAGTTGCTACCTCTGAATGATTGCCGATATGCTTTGTACGATGCCACATACGAAACAAAAGAGT
 CTAAGAAAGAAGACCTAGTATTTATATTCTGGCTCCTGAAAGTGCACCGTTAAAAAGCAAGATGATTTA
 TGCTAGCTCTAAAGATGCCATTAAGAAAGAAATTTACAGGTATTAACATGAGTGGCAAGTAAATGGCTTG
 GACGATATTAAGGACCGCTCGACGCTGGGAGAGAAACTGGGGGCGAGTGTGTAGTTCCCTGAAGGAA
 AGCCACTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR201352 protein sequence
 Red=Cloning site Green=Tags(s)

MASGVTVNDEVIKVFNDMKVRSSTQEEIKKRKKAVLFCLSDDKRQIIVEEAKQILVGDIGDTPYTS
 FVKLLPLNDCRYALYDATYETKESKEDLVFIFWAPESAPLKSMMIYASSKDAIKKFTGIKHEWQVNL
 DDIKDRSTLGEKLGGSVVVSLEGKPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_007688

ORF Size: 501 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_007688.1](#), [NM_007688.2](#), [NP_031714.1](#)

RefSeq Size: 2940 bp

RefSeq ORF: 501 bp

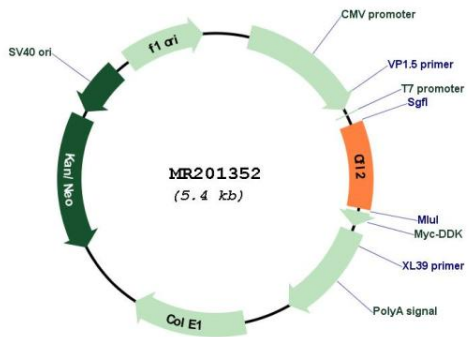
Locus ID: 12632

UniProt ID: [P45591](#)

Cytogenetics: 12 C1
MW: 18.7 kDa

Gene Summary: Controls reversibly actin polymerization and depolymerization in a pH-sensitive manner. It has the ability to bind G- and F-actin in a 1:1 ratio of cofilin to actin. It is the major component of intranuclear and cytoplasmic actin rods. Required for muscle maintenance. May play a role during the exchange of alpha-actin forms during the early postnatal remodeling of the sarcomere.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR201352