

## Product datasheet for **MC205639**

### **Cf12 (NM\_007688) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cf12 (NM_007688) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cf12
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC007138  
 CCTTCTTCTCGTCCCAGTGCCACCGAGCCGGAGTCCGAGCCACCGCCGCCGAGCCACTTCAGCCGCGGG  
 CACTATGGCATCTGGAGTTACAGTGAATGATGAAGTCATCAAAGTTTTTAATGATATGAAAGTAAGAAAA  
 TCTTCTACACAGGAGGAGATCAAAAAAGAAAGAAAGCAGTTCTTCTGTTTGAGCGATGACAAAAAGAC  
 AAATAATTGTAGAGGAAGCCAAGCAGATCTTGGTGGGTGACATTGGTGACACTGTAGAGGACCCCTACAC  
 ATCTTTTGTGAAGTTGCTACCTCTGAATGATTGCCGATATGCTTTGTACGATGCCACATACGAAAAACAAA  
 GAGTCTAAGAAAGAACCTAGTATTTATTTCTGGGCTCCTGAAAGTGACCCGTTAAAAAGCAAGATGA  
 TTTATGCTAGCTCTAAAGATGCCATTA AAAAGAAATTTACAGGTATTAACATGAGTGGCAAGTAAATGG  
 CTTGGACGATATTAAGGACCGCTCGACGCTGGGAGAGAACTGGGGGGCAGTGTTGTAGTTTCCCTTGAA  
 GGAAAGCCACTATAAAATAATAGCCAAGTGCCATTTGATCTTAAGGGGCTTACACGTATCTCTCCAGCTC  
 AGTCCACTGGAATTGTATTAGGTTTTGTTTTTTTTTTTTTTTTGTTTATTCCCTTTTCACTGGTCCCCTTCGT  
 GAATGAGTGAATATAAGAAGCCTGTGAGTATTGCCATGAGACTGTTTCATATGGTTACTTTTCTGTATTC  
 CCAAGGAATGCCTTCTGTCTTATTTAGCCAAAAACAACTGGTCCATGCCTTCCCTTGCAGTGAGCGTT  
 ACAATGGATGTGGTTGTCAATGTGAATAGCTTAGAGTACTACAAAGGTAAGCTAACTGAATGCCTTGAA  
 AATATTATCCACTGGTCCGTCATATGGGAGACTGTTTCAGTATTATTTATAGTTGCACTTGATTACCGT  
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 AAAGAAACAGCTGTGCTAATGTCTTTGGTTTCCCGATGAGTGTACACTACTGTATAATTTATGTTTACCA  
 TATGAGTCTTGAAACACTACAGATATTTGAATATCAGTCATGATGGCAATTTCTGTATAAAAGAGCCTT  
 AAATGGAACATTGTTTTGAGATCAAACCTCCCTACCCTCACAAAAGTGGCCAGTTGCAATAAAAAATTGTG  
 GCAGATTACAGAATGTTGCCTTGTTTTCCCTTGGAAATTTTCCCTTTAATCTTTGGTTTAAAAACATCTTAAA  
 TCACCTATATACAATCATTAAAAGAGTGGTAATTTTATAAATGCTTATTTATGTTATAAAATGGAGATCA  
 GAAAAAATTCTTTTGCCTTTGGCCTATCCAGTATCTTATTTATTCTCTAGATAAGCTAGGATATTAA  
 TCCAGAGTTACATTACTGAGAATTGAGTAGTATAAGTAGGATGTTTTTATTACTTGGTCATAATGAAAAAT  
 AATTTGTAATGTCATTGCAAGGTTAATGATGATTGTGATGTTTAGGAATGTTTGTCTCAGCCACAGTT  
 CCTTCATAGCTTTTCCAAAATGAATTGGGAAAAAACATCGTATAGCAGTCTTAAAGCTTAGTAATGGAA  
 CTTGGCTGTGGCCAGAGCTTTCTCCTTATAGAGAATTTGATCTGCTCCGTGTGCGCTCTCTGCTATTAG  
 CCGGAGCTATTTATGGCAAACACATGCTTTTGTATCTTGTATAGTATCCACAGATGGCAAACCTGGAC  
 TTGATTCTACTGGCATGTAAGACAGGCGTCTAGTGAGCAGTCTGTGTGGCTCTGGACTCTGACCCAG  
 AGCTCTGAAGAATGCTCTTATCAGAAGATAGGAAATGAAAATATCCTTTTTTAAAATATGTGGAAGTAAT  
 TTGGGTATAATTAGTTTTTTCTACCTTTTGGAAAGTTTTTTTTTTTTTTTTTTTTTCCAGATGAGAAC  
 ATTAACATAGTGGTTAAATGTCTAGGCTTCCATTTAAAACACACAAATGACTTGGGATCTTTTTAGCAC  
 TAAGGAATTTGATTTTCCAGCTTTCCAGCTTTGCTGTGAGTTGTTCCAGACCTTTCCGTGGCTTTTTGGTA  
 AGGCTGCTTAGAAGCATGAGAAGCATGAGAATGGTAATGTGTGCTAAACCTATGTTTTAACCAATCTTTG  
 CACCAAAGGACTTTTTCCCAAGTATTTTGTATTCTTCCAAATATTAAGTGATTTCTAAAAGGTAAG  
 GGTGACCTTTTGTATCTAATTTCTCAATTTCTTATATGCATTTTGAATAATTTGAGAGATT  
 AAATGCTGCTTGAAACTATAACTTTGAGTTTTAGATTGGCCAAATACATTAATGTAGTTAAATTCATC  
 TTTAAAGTACACATATGTGCTAGAGCCAAAAATAAATGATTTAATTTATGACCTTATGTTGAGACT  
 AATTTACATCTTATTTACAGTATTTACAGTGAACAATGTTCCAGTATGCTTTAAAAGCTATACGGT  
 GCTAATTAGTAAAATATTGAGGGCAATATTTATTGCTAGCTTGCAAATATAAGTGTTTTAAAAATAA  
 AATACATGAAAATAAAAA AAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI  
**ACCN:** NM\_007688  
**Insert Size:** 501 bp

<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC007138</a> , <a href="#">AAH07138</a>
<b>RefSeq Size:</b>	2909 bp
<b>RefSeq ORF:</b>	501 bp
<b>Locus ID:</b>	12632
<b>UniProt ID:</b>	<a href="#">P45591</a>
<b>Cytogenetics:</b>	12 C1
<b>Gene Summary:</b>	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]