

## Product datasheet for **MG201352**

### **CfI2 (NM\_007688) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CfI2 (NM\_007688) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** CfI2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG201352 representing NM\_007688  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCATCTGGAGTTACAGTGAATGATGAAGTCATCAAAGTTTTTAATGATATGAAAGTAAGAAAATCTT  
CTACACAGGAGGAGATCAAAAAAGAAAGAAAGCAGTTCTTCTGTTTGAGCGATGACAAAAGACAAAT  
AATTGTAGAGGAAGCCAAGCAGATCTTGGTGGGTGACATTGGTGACACTGTAGAGGACCCCTACACATCT  
TTTGTGAAGTTGCTACCTCTGAATGATTGCCGATATGCTTTGTACGATGCCACATACGAAACAAAAGAGT  
CTAAGAAAGAAGACCTAGTATTTATATTCTGGGCTCCTGAAAGTGCACCGTTAAAAAGCAAGATGATTTA  
TGCTAGCTCTAAAGATGCCATTAAGAAAGAAATTTACAGGTATTAACATGAGTGGCAAGTAAATGGCTTG  
GACGATATTAAGGACCGCTCGACGCTGGGAGAGAACTGGGGGCGAGTGTGTAGTTTCCCTGAAGGAA  
AGCCACTA

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**

**Protein Sequence:** >MG201352 representing NM\_007688  
**Red=Cloning site Green=Tags(s)**

MASGVTVNDEVIKVFNDMKVRSSTQEEIKKRKKAVLFCLSDDKRQIIVEEAKQILVGDIGDTPYTS  
FVKLLPLNDCRYALYDATYETKESKKEDLVFIFWAPESAPLKSMMIYASSKDAIKKKFTGIKHEWQVNL  
DDIKDRSTLGEKLGGSVVVSLEGKPL

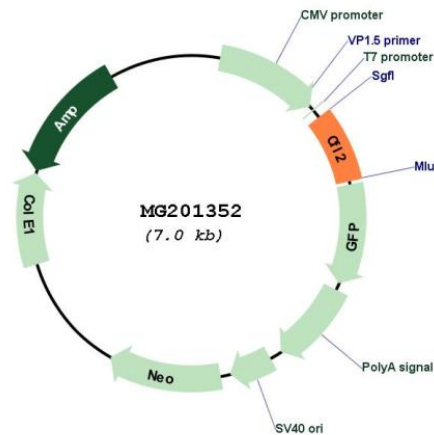
**TRTRPLE - GFP Tag - V**

**Restriction Sites:** SgfI-MluI



[View online »](#)

**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_007688

**ORF Size:** 498 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.

<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>	<u><a href="#">NM_007688.2</a></u> , <u><a href="#">NP_031714.1</a></u>
<b>RefSeq Size:</b>	2940 bp
<b>RefSeq ORF:</b>	501 bp
<b>Locus ID:</b>	12632
<b>UniProt ID:</b>	<u><a href="#">P45591</a></u>
<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]