

## Product datasheet for **MG201348**

### Cfl1 (NM\_007687) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cfl1 (NM\_007687) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Cfl1  
**Synonyms:** AA959946; Cof  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG201348 representing NM\_007687  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCCTCTGGTGTGGCTGTCTCTGATGGTGTCATCAAGGTGTTCAATGACATGAAGGTTGCAAGTCTT  
 CAACACCAGAAGAAGTGAAGAAACGCAAGAAGGCGGTGCTCTTTTGCCTGAGTGAGGACAAGAACAAT  
 CATCCTGGAGGAGGGCAAGGAGATCCTGGTAGGAGATGTGGGCAGACTGTGGACGACCCCTACACCACT  
 TTTGTCAAGATGCTGCCAGACAAGGACTGCCGCTATGCACTCTATGATGCAACCTATGAGACCAAGGAGA  
 GCAAGAAGGAGGACCTGGTGTTCATCTTCTGGGCCCGAGAATGCACCCCTCAAGAGCAAATGATCTA  
 TGCCAGCTCCAAGGATGCCATCAAGAAGAAGCTGACAGGAATCAAGCATGAATTACAAGCTAACTGCTAC  
 GAGGAGGTCAAGGACCGCTGCACCTGGCAGAGAACTAGGTGGCAGCGCGTCATTTCCCTGGAGGGCA  
 AGCCTTTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG201348 representing NM\_007687  
 Red=Cloning site Green=Tags(s)

MASGVAVSDGVIKVFNDMKVRKSSTPEEVKRRKAVLFLCEDKKNIIIEEGKEILVGDVGGQTVDDPYTT  
 FVKMLPDKDCRYALYDATYETKESKKEDLVFIFWAPENAPLKSMMIYASSKDAIKKLTGIKHELQANCY  
 EEVKDRCTLAEKLGSAVISLEGKPL

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_007687

**ORF Size:** 498 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

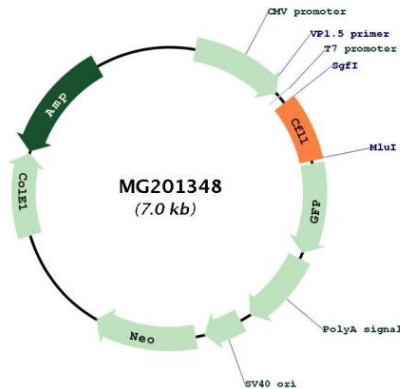
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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\\_007687.5, NP\\_031713.1](#)  
**RefSeq Size:** 1196 bp  
**RefSeq ORF:** 501 bp  
**Locus ID:** 12631  
**UniProt ID:** [P18760](#)  
**Cytogenetics:** 19 A

**Gene Summary:** Binds to F-actin and exhibits pH-sensitive F-actin depolymerizing activity (PubMed:11809832). Regulates actin cytoskeleton dynamics. Important for normal progress through mitosis and normal cytokinesis. Plays a role in the regulation of cell morphology and cytoskeletal organization. Required for the up-regulation of atypical chemokine receptor ACKR2 from endosomal compartment to cell membrane, increasing its efficiency in chemokine uptake and degradation (By similarity). Required for neural tube morphogenesis and neural crest cell migration (PubMed:15649475).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MG201348