

## Product datasheet for MC207012

### Cfl1 (NM\_007687) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cfl1 (NM_007687) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cfl1
Synonyms:	AA959946; Cof
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC207012 representing NM_007687. Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG  
 GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC  
 ATGGCCTCTGGTGTGGCTGTCTCTGATGGTGTCATCAAGGTGTTCAATGACATGAAGTTTCGCAAGTCT  
 TCAACACCAGAAGAAGTGAAGAAACGCAAGAAGGCGGTGCTCTTTGCCTGAGTGAGGACAAGAAGAAC  
 ATCATCCTGGAGGAGGCAAGGAGATCCTGGTAGGAGATGTGGGCAGACTGTGGACGACCCCTACACC  
 ACTTTTGTCAAGATGCTGCCAGACAAGGACTGCCGCTATGCACTCTATGATGCAACCTATGAGACCAAG  
 GAGAGCAAGAAGGAGGACCTGGTGTTCATCTTCTGGGCCCCGAGAATGCACCCCTCAAGAGCAAAATG  
 ATCTATGCCAGCTCCAAGGATGCCATCAAGAAGAAGCTGACAGGAATCAAGCATGAATTACAAGCTAAC  
 TGCTACGAGGAGGTCAAGGACCGCTGCACCTGGCAGAGAACTAGGTGGCAGCGCGTCATTTCCCTG  
 GAGGGCAAGCCTTTGTGA  
 ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT  
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	Sgfl-MluI
ACCN:	NM_007687
Insert Size:	501 bp


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<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_007687.5</a>
<b>RefSeq Size:</b>	1196 bp
<b>RefSeq ORF:</b>	501 bp
<b>Locus ID:</b>	12631
<b>UniProt ID:</b>	<a href="#">P18760</a>
<b>Cytogenetics:</b>	19 A
<b>MW:</b>	18.6 kDa
<b>Gene Summary:</b>	<p>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]</p>