

Product datasheet for **SC116694**

Cofilin 1 (CFL1) (NM_005507) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cofilin 1 (CFL1) (NM_005507) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cofilin 1
Synonyms:	CFL; cofilin; HEL-S-15
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_005507 edited
 GAATTCGGCACGAGGCTGCAGCGCTCTCGTCTTCTGCGGCTCTCGGTGCCCTCTCCTTTT
 CGTTTCCGGAAACATGGCCTCCGGTGTGGCTGTCTCTGATGGTGCATCAAGGTGTTCAA
 CGACATGAAGGTGCGTAAGTCTTCAACGCCAGAGGAGGTGAAGAAGCGCAAGAAGCGGT
 GCTCTTCTGCCTGAGTGAGGACAAGAAGAACATCATCCTGGAGGAGGGCAAGGAGATCCT
 GGTGGGGATGTGGGCCAGACTGTCGACGATCCCTACGCCACCTTTGTCAAGATGCTGCC
 AGATAAGGACTGCCGCTATGCCCTCTATGATGCAACCTATGAGACCAAGGAGAGCAAGAA
 GGAGGATCTGGTGTATCTTCTGGGCCCCGAGTCTGCGCCCTTAAGAGCAAATGAT
 TTATGCCAGTCCAAGGACGCCATCAAGAAGAAGCTGACAGGGATCAAGCATGAATTGCA
 AGCAAAGTCTACGAGGAGGTCAAGGACCGCTGCACCCTGGCAGAGAAGCTGGGGGGCAG
 TGCCGTACTCTCCCTGGAGGGCAAGCCTTTGTGAGCCCTTCTGGCCCTGCCTGGAGC
 ATCTGGCAGCCCCACACCTGCCCTTGGGGTTGCAGGCTGCCCTTCTGCCAGACCGG
 AGGGGCTGGGGGATCCCAGCAGGGGAGGGCAATCCCTTCAACCCAGTTGCCAAACAGA
 CCCCCACCCCTGGATTTTCTTCTCCCTCCATCCCTTGACGGTTCTGGCCTTCCCAA
 CTGCTTTTGTATCTTTGATTCTTGGGCTGAAGCAGACCAAGTTCCCCCAGGCACCC
 CAGTTGTGGGGAGCCTGATTTTTTTTAAACATCCCCATCCCCACCTGGTCTCTCC
 CCTCCCATGCTGCCAATTCTAACCGCAATAGTACTCTGTGCTGTGCTGTTTGTGTTCT
 GTGTATAAATGGAATGTTGTGGAGATGACCCCTCCCTGTGCCGGCTGGTTCCTCTCCCT
 TTCCCTGGTACGGCTACTCATGGAAGCAGGACCAGTAAGGGACCTTCGATTAATAAAAA
 AAAAAAGACAATAATAAAAAAAAAAAAAAAAAAATCTCGAC



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005507 unedited
 NGGTTACATTTGTATACGACTCACTATAGGCGGCCGCGATTCCGGCACGAGGCTGCAGCG
 CTCTCGTCTTCTGCGGCTCTCGGTGCCCTCTCCTTTTCGTTTCCGGAAACATGGCCTCCG
 GTGTGGCTGTCTCTGATGGTGTCAAGGTGTCAACGACATGAAGGTGCGTAAGTCTT
 CAACGCCAGAGGAGGTGAAGAAGCGCAAGAAGGCGGTGCTTTCTGCCTGAGTGAGGACA
 AGAAGAACATCATCTGGAGGAGGGCAAGGAGATCCTGGTGGCGATGTGGCCAGACTG
 TCGACGATCCCTACGCCACCTTTGTCAAGATGCTGCCAGATAAGGACTGCCGCTATGCC
 TCTATGATGCAACCTATGAGACCAAGGAGAGCAAGAAGGAGGATCTGGTGTATCTTCT
 GGGCCCCCGAGTCTGCGCCCCCTAAGAGCAAAATGATTTATGCCAGCTCCAAGGACGCCA
 TCAAGAAGAAGCTGACAGGGATCAAGCATGAATTGCAAGCAAAGTCTACGAGGAGGTCA
 AGGACCGTGCACCCTGGCAGAGAAGCTGGGGGGCAGTCCGTCATCTCCCTGGAGGGCA
 AGCCTTTGTGAGCCCTTCTGGCCCCCTGCCTGGAGCATCTGCCAGCCCCACACCTGCC
 TTGGGGTTCAGGCTGCCCCCTCCTGCCAGACCGAGGGGCTGGGGGATCCCAGCAG
 GGGGAGGGCAATCCCTTACCCAGTTGCCAAACAGACCCCCCACCCTGGATTNTCCT
 TCTCCCTCATNNCTTGACGTTCTGGCCTTCCAAACTGCNTTTGATCTTTGATTCTCT
 CTTGNGCTGAGCAGACCAAGTCCCCCCAGCACCCANTGTGGGGAGCCTGTATTTT
 TTTAACACA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_005507 unedited
 GCGGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTATTATTGGCTTTTTTTTTTTT
 TAATCGAAGGTCCCTTACTGGTCTGCTCCATGAGTAGCCGTGACCAGGGGAAAAGGGA
 GAGGAACAGCCGGCACAGGGAGGGTCACTCCACAACATTCCATTTATACACAGAAGT
 AAACAGACAAGCACAGAGTCACTATTGCGTTAAAAGTTGGCAGCATGGGAAGGGGGAGG
 ACCAGGTGGGGAATGGGGATGTTGTTAAAAAAATACAGGCTCCCCACAAGTGGGTGC
 CTGGGGGGAACCTGGTCTGCTTACGCCAAGAGGAATCAAAAGATCAAAAGCAGTTTGGG
 AAGGCCAGAACCCTCAAGGGATGGAGGGAGAAGGAAAATCCAGGGGGTGGGGGTCTGTT
 TGGCAACTGGGGTGAAGGGATTGCCCTCCCCCTGCTGGGATCCCCCAGCCCTCCGGTC
 TGGCAGGAAGGGGGCAGCCTGCAACCCCAAGGGCAGGTGTGGGGCTGCCAGATGCTCCA
 GGCAGGGGGCCAGAAGGGGCTCACAAGGCTTGCCTCCAGGGAGATGACGGCACTGCC
 CCCAGCTTCTCTGCCAGGGTGCAGCGGTCTTGACCTCCTCGTAGCAGTTTGCTTGCAAT
 TCATGCTTGATCCCTGTGAGCTTCTTCTTGATGGCGTCTTGGAGCTGGCATAAAATCATT
 TTGCTCTTAAGGGGCGCAGACTCGGGGGCCCCAGAAGAAAACACCAGATCCTNCTTCTG
 CTCTNCTGGNCTCATANGTTGCATCATAAAGGGCATAGCGGCAGTCCCTATCTGGCAGCA
 TCTTGACAAAAGTGGGCGTAAGGAACGTNAAACGTCTGGGCCAAATGGGCAACCAGGACTC
 CTTGCCCTCTCCAGAAAGAGGTCTTCTTGGCTACTCAGGCAAAGAGACCCGCTTCTGCC
 CTCTACCCCTTTGGGAG

Restriction Sites:

NotI-NotI

ACCN:

NM_005507

Insert Size:

1200 bp

OTI Disclaimer:

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).

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:	<ol style="list-style-type: none">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_005507.2 , NP_005498.1
RefSeq Size:	1260 bp
RefSeq ORF:	501 bp
Locus ID:	1072
UniProt ID:	P23528
Cytogenetics:	11q13.1
Domains:	ADF
Protein Families:	Druggable Genome
Protein Pathways:	Axon guidance, Fc gamma R-mediated phagocytosis, Regulation of actin cytoskeleton
Gene Summary:	The protein encoded by this gene can polymerize and depolymerize F-actin and G-actin in a pH-dependent manner. Increased phosphorylation of this protein by LIM kinase aids in Rho-induced reorganization of the actin cytoskeleton. Cofilin is a widely distributed intracellular actin-modulating protein that binds and depolymerizes filamentous F-actin and inhibits the polymerization of monomeric G-actin in a pH-dependent manner. It is involved in the translocation of actin-cofilin complex from cytoplasm to nucleus.[supplied by OMIM, Apr 2004]