

Product datasheet for **RG203585**

Cofilin 1 (CFL1) (NM_005507) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cofilin 1 (CFL1) (NM_005507) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: Cofilin 1
Synonyms: CFL; cofilin; HEL-S-15
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG203585 representing NM_005507
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCTCCGGTGTGGCTGTCTCTGATGGTGTCATCAAGGTGTTCAACGACATGAAGGTGCGTAAGTCTT
CAACGCCAGAGGAGGTGAAGAAGCGCAAGAAGGCGGTGCTCTTCTGCCTGAGTGAGGACAAGAACAAT
CATCCTGGAGGAGGGCAAGGAGATCCTGGTGGCGATGTGGCCAGACTGTCGACGATCCCTACGCCACC
TTTGTCAAGATGCTGCCAGATAAGGACTGCCGCTATGCCCTCTATGATGCAACCTATGAGACCAAGGAGA
GCAAGAAGGAGGATCTGGTGTATCTTCTGGGCCCGAGTCTGCGCCCTTAAGAGCAAATGATTTA
TGCCAGCTCCAAGGACGCCATCAAGAAGAAGCTGACAGGGATCAAGCATGAATTGCAAGCAAAGTCTAC
GAGGAGGTCAAGGACCGCTGCACCTGGCAGAGAAGCTGGGGGGCAGTCCGTCATCTCCCTGGAGGGCA
AGCCTTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG203585 representing NM_005507
Red=Cloning site Green=Tags(s)

MASGVAVSDGVIKVFNDMKVRSSTPEEVKRRKAVLFLCEDKKNIIIEEGKEILVGDVGGQTVDDPYAT
FVKMLPDKCRYALYDATYETKESKEDLVFIFWAPESAPLKSMMIYASSKDAIKKLTGIKHELQANCY
EEVKDRCTLAEKLGSAVISLEGKPL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_005507

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.

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_005507.2](#), [NP_005498.1](#)

RefSeq Size: 1260 bp

RefSeq ORF: 501 bp

Locus ID: 1072

UniProt ID: [P23528](#)

Cytogenetics: 11q13.1

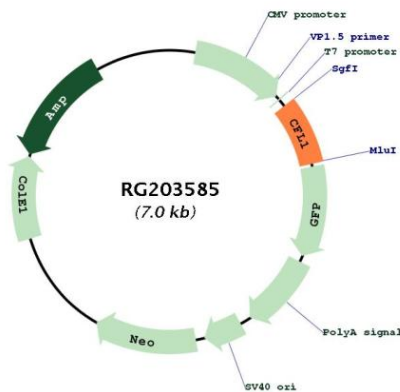
Domains: ADF

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]

Product images:



Circular map for RG203585