

Product datasheet for RC203585

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: Myc-DDK
Symbol: Cofilin 1

Synonyms: CFL; cofilin; HEL-S-15

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >RC203585 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

AGCCTTTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC203585 protein sequence

Red=Cloning site Green=Tags(s)

MASGVAVSDGVIKVFNDMKVRKSSTPEEVKKRKKAVLFCLSEDKKNIILEEGKEILVGDVGQTVDDPYAT FVKMLPDKDCRYALYDATYETKESKKEDLVFIFWAPESAPLKSKMIYASSKDAIKKKLTGIKHELQANCY

EEVKDRCTLAEKLGGSAVISLEGKPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6056 b01.zip



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Restriction Sites:

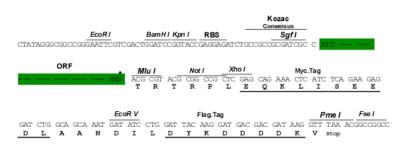
Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shuttling:

Sgf1 ORF Miu I

--- GCGATCGC C ATG ---//--- NIN ACG CGT ---



^{*} The last codon before the Stop codon of the ORF

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.

RefSeq: <u>NM 005507.3</u>

RefSeq Size: 1260 bp RefSeq ORF: 501 bp



Domains:

Locus ID: 1072

UniProt ID: P23528

Cytogenetics: 11q13.1

Protein Families: Druggable Genome

ADF

Protein Pathways: Axon guidance, Fc gamma R-mediated phagocytosis, Regulation of actin cytoskeleton

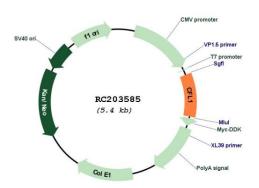
MW: 18.5 kDa

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

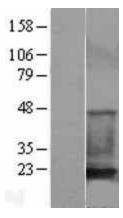
2004]

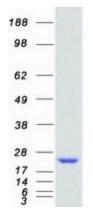
Product images:



Circular map for RC203585







Western blot validation of overexpression lysate (Cat# [LY401686]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203585 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified CFL1 protein (Cat# [TP303585]). The protein was produced from HEK293T cells transfected with CFL1 cDNA clone (Cat# RC203585) using MegaTran 2.0 (Cat# [TT210002]).