

Product datasheet for RG222215

Cofilin 2 (CFL2) (NM_138638) Human Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

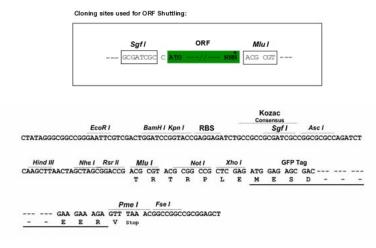
9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product Type:	Expression Plasmids
Product Name:	Cofilin 2 (CFL2) (NM_138638) Human Tagged ORF Clone
Tag:	
•	
Symbol:	Cofilin 2
Synonyms:	NEM7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	<pre>>RG222215 representing NM_138638 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGGCTTCTGGAGTTACAGTGAATGATGAAGTCATCAAAGTTTTTAATGATATGAAAGTAAGGAAATCTT CTACACAAGAGGAGATCAAAAAGAGAAAGAAAGCAGTTCTCTTCTGTTTAAGCGATGACAAAAGACAAAT AATTGTAGAGGAAGCAAAGCA
	ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA
Protein Sequence:	<pre>>RG222215 representing NM_138638 Red=Cloning site Green=Tags(s)</pre>
	MASGVTVNDEVIKVFNDMKVRKSSTQEEIKKRKKAVLFCLSDDKRQIIVEEAKQILVGDIGDTVEDPYTS FVKLLPLNDCRYALYDATYETKESKKEDLVFIFWAPESAPLKSKMIYASSKDAIKKKFTGIKHEWQVNGL DDIKDRSTLGEKLGGNVVVSLEGKPL
	TRTRPLE - GFP Tag - V
Restriction Sites:	Sgfl-Mlul



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Cloning Scheme:

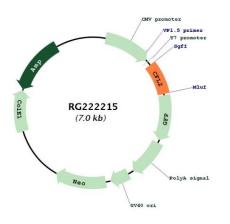


ACCN:	NM_138638
ORF Size:	498 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <u>More info</u>
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:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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:	<u>NM 138638.5</u>
RefSeq Size:	3093 bp
RefSeq ORF:	501 bp
Locus ID:	1073
UniProt ID:	<u>Q9Y281</u>

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ORIGENE Cofi	lin 2 (CFL2) (NM_138638) Human Tagged ORF Clone – RG222215
Cytogenetics:	14q13.1
Protein Families:	Druggable Genome
Protein Pathways:	Axon guidance, Fc gamma R-mediated phagocytosis, Regulation of actin cytoskeleton
Gene Summary:	This gene encodes an intracellular protein that is involved in the regulation of actin-filament dynamics. This protein is a major component of intranuclear and cytoplasmic actin rods. It can bind G- and F-actin in a 1:1 ratio of cofilin to actin, and it reversibly controls actin polymerization and depolymerization in a pH-dependent manner. Mutations in this gene cause nemaline myopathy type 7, a form of congenital myopathy. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2009]

Product images:



Circular map for RG222215

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