

Product datasheet for RC216177

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OriGene Technologies, Inc.

Profilin 2 (PFN2) (NM_002628) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Profilin 2 (PFN2) (NM_002628) Human Tagged ORF Clone

Tag: Myc-DDK
Symbol: Profilin 2

Synonyms: D3S1319E; PFL

Mammalian Cell Ne

Selection:

Neomycin

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

ORF Nucleotide >RC216177 representing NM_002628

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

TTTTGTAATACGACTCACTATAGGGCCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGCCGGTTGGCAGAGCTACGTGGATAACCTGATGTGCGATGGCTGCTGCCAGGAGGCCGCCATTGTCG
GCTACTGCGACGCCAAATACGTCTGGGCAGCCACGGCCGGGGGCGTCTTTCAGAGCATTACGCCAATAGA
AATAGATATGATTGTAGGAAAAGACCGGGAAGGTTTCTTTACCAACGGTTTGACTCTTGGCGCAAAGAAA
TGCTCAGTGATCAGAGATAGTCTATACGTCGATGGTGACTGCACAATGGACATCCGGACAAAGAGTCAAG
GTGGGGAGCCAACATACAATGTGGCTGTCGGCAGAGCTGGTAGAGCATTGGTTATAGTCATGGGAAAGGA
AGGTGTCCACGGAGGCACACTTAACAAGAAAGCATATGAACTCGCTTTATACCTGAGGAGGTCTGATGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAG**GTTTAA**

Protein Sequence: >RC216177 representing NM_002628

Red=Cloning site Green=Tags(s)

MAGWQSYVDNLMCDGCCQEAAIVGYCDAKYVWAATAGGVFQSITPIEIDMIVGKDREGFFTNGLTLGAKK CSVIRDSLYVDGDCTMDIRTKSQGGEPTYNVAVGRAGRALVIVMGKEGVHGGTLNKKAYELALYLRRSDV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6111 g08.zip

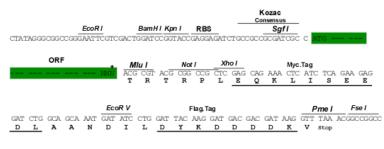
Restriction Sites: Sgfl-Mlul





Cloning Scheme:





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

ACCN: NM_002628

ORF Size: 420 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 002628.5

 RefSeq Size:
 1950 bp

 RefSeq ORF:
 423 bp

 Locus ID:
 5217

 UniProt ID:
 P35080



Cytogenetics: 3q25.1

Domains: PROF

Protein Families: Druggable Genome

Protein Pathways: Regulation of actin cytoskeleton

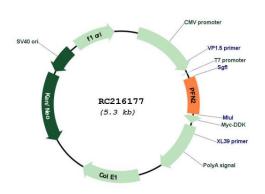
MW: 14.9 kDa

Gene Summary: The protein encoded by this gene is a ubiquitous actin monomer-binding protein belonging

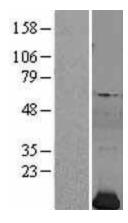
to the profilin family. It is thought to regulate actin polymerization in response to extracellular signals. There are two alternatively spliced transcript variants encoding different isoforms

described for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC216177



Western blot validation of overexpression lysate (Cat# [LY400933]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216177 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).