

Product datasheet for RC207366

Profilin 2 (PFN2) (NM 053024) Human Tagged ORF Clone

Product data:

Product Type:

Product Name:

Mammalian Cell

E. coli Selection:

Tag:

Symbol: Synonyms:

Selection: Vector:

Expression Plasmids Profilin 2 (PFN2) (NM_053024) Human Tagged ORF Clone Myc-DDK Profilin 2 D3S1319E; PFL Neomycin pCMV6-Entry (PS100001) Kanamycin (25 ug/mL)

>RC207366 ORF sequence **ORF** Nucleotide Red=Cloning site Blue=ORF Green=Tags(s) Sequence:

> TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC

> ATGGCCGGTTGGCAGAGCTACGTGGATAACCTGATGTGCGATGGCTGCCAGGAGGCCGCCATTGTCG GCTACTGCGACGCCAAATACGTCTGGGCAGCCACGGCCGGGGGCGTCTTTCAGAGCATTACGCCAATAGA AATAGATATGATTGTAGGAAAAGACCGGGAAGGTTTCTTTACCAACGGTTTGACTCTTGGCGCGCAAGAAA TGCTCAGTGATCAGAGATAGTCTATACGTCGATGGTGACTGCACAATGGACATCCGGACAAAGAGTCAAG GTGGGGAGCCAACATACAATGTGGCTGTCGGCAGAGCTGGTAGAGTCTTGGTCTTTGTAATGGGAAAAGA AGGGGTCCATGGAGGCGGATTGAATAAGAAGGCATACTCAATGGCAAAATACTTGAGAGACTCTGGGTTC

> ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

>RC207366 protein sequence **Protein Sequence:** Red=Cloning site Green=Tags(s)

> MAGWQSYVDNLMCDGCCQEAAIVGYCDAKYVWAATAGGVFQSITPIEIDMIVGKDREGFFTNGLTLGAKK CSVIRDSLYVDGDCTMDIRTKSQGGEPTYNVAVGRAGRVLVFVMGKEGVHGGGLNKKAYSMAKYLRDSGF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6365_e12.zip **Restriction Sites:** Sgfl-Mlul

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



This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

Cloning Scheme:



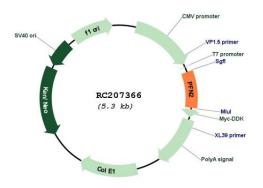
* The last codon before the Stop codon of the ORF

ACCN:	NM_053024
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. <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 053024.4</u>
RefSeq Size:	2117 bp
RefSeq ORF:	423 bp
Locus ID:	5217
UniProt ID:	<u>P35080</u>

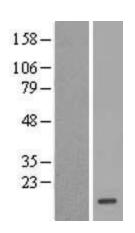
This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

	n 2 (PFN2) (NM_053024) Human Tagged ORF Clone – RC207366
Cytogenetics:	3q25.1
Domains:	PROF
Protein Families:	Druggable Genome
Protein Pathways:	Regulation of actin cytoskeleton
MW:	15 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:



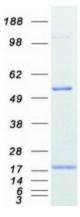
Circular map for RC207366



Western blot validation of overexpression lysate (Cat# [LY409326]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207366 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US





Coomassie blue staining of purified PFN2 protein (Cat# [TP307366]). The protein was produced from HEK293T cells transfected with PFN2 cDNA clone (Cat# RC207366) using MegaTran 2.0 (Cat# [TT210002]).

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US