

Product datasheet for **SC107927**

Profilin 2 (PFN2) (NM_053024) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Profilin 2 (PFN2) (NM_053024) Human Untagged Clone
Tag:	Tag Free
Symbol:	Profilin 2
Synonyms:	D3S1319E; PFL
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC107927 sequence for NM_053024 edited (data generated by NextGen Sequencing) ATGGCCGGTTGGCAGAGCTACGTGGATAACCTGATGTGCGATGGCTGCTGCCAGGAGGCC GCCATTGTCGGCTACTGCGACGCCAAATACGTCTGGGCAGCCACGGCCGGGGCGTCTTT CAGAGCATTACGCCAATAGAAATAGATATGATTGTAGGAAAAGACCGGGAAGTTTCTTT ACCAACGGTTTGACTCTTGGCGGAAGAAATGCTCAGTGATCAGAGATAGTCTATACGTC GATGGTGACTGCACAATGGACATCCGGACAAAGAGTCAAGGTGGGGAGCCAACATACAAT GTGGCTGTCGGCAGAGCTGGTAGAGTCTTGGTCTTTGTAATGGGAAAAGAAGGGTCCAT GGAGGCCGATTGAATAAGAAGGCATACTCAATGGCAAAATACTTGAGAGACTCTGGGTTC TAG Clone variation with respect to NM_053024.3



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_053024 unedited CACGAATTTGTNAATACGCACTTCACTTATANNGGCGGCCGNAATTCGGCACGAGGGC GCCGCCGCGCCCGCTACCGCCGCGCCGCGCTGCGCCTGCTGCTCCTCGCCGTCCGCG CTGCAGTGCGAAGGGCTCGAAGATGGCCGGTTGGCAGAGCTACGTGGATAACCTGATGTG CGATGGCTGCTGCCAGGAGGCCCCATTGTCGGCTCGTGCACGCCAAATACGTCTGGGC AGCCACGGCCGGGGCGTCTTTACAGAGCATTACGCCAATAGAAATAGATATGATTGTAGG AAAAGACCGGGAAGGTTTCTTTACCAACGGTTTGACTCTTGGCGGAAGAAATGCTCAGC GATCAGAGATAGTCTATACGTGATGGTACTGCACAATGGACATCCGGACAAAGAGTCA AGGTGGGAGCCAACATACAATGTGGCTGTCGGCAGAGCTGGTAGAGCCTTGGTCTTTGT CCTGGGAAAAGAAGGGTCCATGGAGGCGGATTGAATAAGAAGGCATACTCAATGGCAA ATACTTGAGAGACTCTGGGTTCTAGCTGCTAGGCCGACTGCCCGTATTAGGGGAAAAC GCTCTTAACTTTCTAGCTATAAACTCAAGTCTTAATTCTGAAATCTATTAACCACTG CCGGCTGATGGGGTATGAACCTGTGTCTCCTTTGTTCCCTCTGCTGGCGGGAAAGGTGT CCTTCTTTCTGCCCTCCCCCCCCAAATAACTCTGTAACTTTGTTGGCTCCCCTGGGAC CCCACATTGGTTTAGTCATGGGAAACGAAGGGGAGTCCGGCGGCCCACTTACCACAAAA CATAGCACCCCTTTTTCCCGCAGAGGTCTATTGTACACAACCTTCCCCATTTACCTAAA CTGATTTCTCCACCTATTATGCGCCACGCTCCCCCTGTCGGCGCCGCTATT
Restriction Sites:	NotI-NotI
ACCN:	NM_053024
Insert Size:	2290 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none"> 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_053024.2 , NP_444252.1
RefSeq Size:	2272 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

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]
Transcript Variant: This variant (1) represents the longer transcript and encodes isoform a.