

Product datasheet for **SC120033**

Gelsolin (GSN) (NM_000177) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gelsolin (GSN) (NM_000177) Human Untagged Clone
Tag:	Tag Free
Symbol:	Gelsolin
Synonyms:	ADF; AGEL
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_000177, the custom clone sequence may differ by one or more nucleotides

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ATGGCTCCGCACCGCCCCGCGCCCGCTGCTTTGCGCGTGTCCCTGGCGCTGTGCGCGCTGTCGCTGC
CCGTCGCGCGGGCCACTGCGTCGCGGGGGCGTCCCAGGCGGGGGCGCCCAGGGCGGGTGCCCGAGGC
GCGGCCAACAGCATGGTGGTGAACACCCGAGTTCTCAAGGCAGGAAGGAGCCTGGCCTGCAGATC
TGGCGTGTGGAGAAGTTCGATCTGGTGCCCGTGCCACCAACCTTTATGGAGACTTCTTACGGGGGACG
CCTACGTCATCCTGAAGACAGTGCAGCTGAGGAACGAAATCTGCAGTATGACCTCCACTACTGGCTGGG
CAATGAGTGCAGCCAGGATGAGAGCGGGGCGGCCCATCTTTACCGTGCAGCTGGATGACTACCTGAAC
GGCCGGGCGTGCAGCACCGTGAAGTCCAGGGCTTCGAGTCGGCCACCTTCTAGGCTACTTCAAGTCTG
GCCTGAAGTACAAGAAAGGAGGTGTGGCATCAGGATCAAGCACGTGTACCCAACGAGGTGGTGGTGA
GAGACTTTCAGGTCAAAGGGCGCGTGTGGTCCGTGCCACCGAGGTACCTGTGTCTGGGAGAGCTTC
AACATGGCGACTGCTTCATCCTGGACCTGGGCAACAACATCCACCAGTGGTGTGGTTCCAACAGCAATC
GGTATGAAAGACTGAAGGCCACACAGGTGTCCAAGGGCATCCGGGACAACGAGCGGAGTGGCCGGGCCCCG
AGTGCACGTGTCTGAGGAGGGCACTGAGCCCGAGGCGATGCTCCAGGTGTGGGCCCAAGCCGGCTCTG
CCTGCAGGTACCGAGGACACCGCAAGGAGGATGCGGCCAACCGCAAGCTGGCCAAGCTCTACAAGTCT
CCAATGGTGCAGGGACCATGTCCGTCTCCCTCGTGGTGTGAGAACCCCTTCGCCAGGGGGCCCTGAA
GTCAGAGGACTGCTTCATCCTGGACCACGGCAAAGATGGGAAAATCTTTGTCTGGAAAGGCAAGCAGGCA
AACACGGAGGAGAGGAAGGCTGCCCTCAAACAGCCTCTGACTTCATCACCAAGATGGACTACCCCAAGC
AGACTCAGGTCTCGGTCTTCTGAGGGCGGTGAGACCCCACTGTTCAAGCAGTCTTCAAGAACTGGCG
GGACCCAGACCAGACAGATGGCTGGCTTGTCTACCTTCCAGCCATATCGCCAACGTGGAGCGGGTG
CCCTTCGACGCCGCCACCCTGCACACCTCCACTGCCATGGCCGCCAGCACGGCATGGATGACGATGGCA
CAGGCCAGAAACAGATCTGGAGAATCGAAGGTTCCAACAAGGTGCCCGTGGACCTGCCACATATGGACA
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TATAACTGGCAGGGTGCCAGTCTACCCAGGATGAGGTGCTGCATCTGCCATCTGACTGCTCAGCTGG
ATGAGGAGCTGGGAGGTACCCCTGTCCAGAGCCGTGTGGTCCAAGGCAAGGAGCCCGCCACCTCATGAG
CCTGTTTGGTGGGAAGCCATGATCATCTACAAGGGCGGCACCTCCCGAGGGCGGGCAGACAGCCCT
GCCAGCACCCGCCTTCCAGGTCCGCGCCAACAGCGCTGGAGCCACCCGGGCTGTTGAGGTATTGCCTA
AGGCTGGTGCAGTGAACCAACGATGCCTTTGTTCTGAAAACCCCTCAGCCGCTACCTGTGGGTGGG
TACAGGAGCCAGCGAGGCAGAGAAGACGGGGGCCAGGAGCTGCTCAGGGTGTGCGGGCCCAACCTGTG
CAGGTGGCAGAAGGCAGCGAGCCAGATGGCTTCTGGGAGGCCCTGGGCGGGAAGGCTGCCTACCGCACAT
CCCCACGGCTGAAGGACAAGAAGATGGATGCCATCCTCCTCGCCTCTTTGCCTGCTCAACAAGATTGG
ACGTTTTGTGATCGAAGAGGTTCTGGTGAAGTGCATGCAGGAAGACCTGGCAACGGATGACGTATGCTT
CTGGACACCTGGGACCAGGTCTTTGTCTGGGTTGGAAGGATTCTCAAGAAGAAGAAAAGACAGAAGCCT
TGACTTCTGCTAAGCGGTACATCGAGACGGACCCAGCCAATCGGGATCGGCGGACGCCATCACCGTGGT
GAAGCAAGGCTTTGAGCCTCCCTCTTTGTGGGCTGGTTCCTGGCTGGGATGATGATTACTGGTCTGTG
GACCCCTGGACAGGGCCATGGCTGAGCTGGCTGCCTGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000177 unedited
 AGGTCACATTTTGTAAACGACTCACTATAGGGCGGCCGCGAATTCGCACNNGGGCTGCCG
 ACTGGGTCCCCTGCCGCTGTCCGCCACCATGGCTCCGCACCGCCCCGCGCCGCGCTGCTT
 TGCGCGCTGTCCCTGGCGCTGTGCGCGCTGTGCTGCCGTCCGCGCGGCCACTGCGTGC
 CGGGGGCGTCCCAGGCGGGGGCGCCCCAGGGCGGGTCCCCAGGCGCGGCCAACAGC
 ATGGTGGTGAACACCCCGAGTTCCTCAAGGCAGGGAAGGAGCCTGGCCTGCAGATCTGG
 CGTGTGGAGAAGTTCGATCTGGTGCCCGTCCCCACCAACCTTTATGGAGACTTCTTCACG
 GGCAGCGCTACGTCATCCTGAAGACAGTGCAGCTGAGGAACGGAAATCTGCAGTATGAC
 CTCCACTACTGGCTGGGCAATGAGTGCAGCCAGGATGAGAGCGGGGCGGCCCATCTTT
 ACCGTGCAGCTGGATGACTACCTGAACGGCCGGCCGTGCAGCACCGTGAGGTCCAGGGC
 TTCGAGTCGGCCACCTTCTAGGCTACTTCAAGTCTGGCCTGAAGTACAAGAAAGGAGGT
 GTGGCATCAGGATTCAAGCACGTGGTACCCAACGAGGTGGTGGTGCAGAGACTCTCCAG
 GTCAAAGGGCGCGTGTGGTCCGTGCCACCGAGGTACCTGTGCTGGGAGAGCTTCAAC
 AATGGCGACTGCTTCATCCTGGACTGGGCAACAACATCCACCAGTGGTGTGGTTCCAAC
 AGCAAATCGTATGAAAGACTGAANGCCACACNAGTGTCCAAGGGCATNCGGGACACGAGC
 CGAGTGGCCGGGCGGAGTGCACGTGTCTGGAGAGGGCACTGAGCCCCGAGCGGATGCCTC
 AGGTGCTGGGCCCAAGCCGGCTCTGCCCTGAAGTACCC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000177 unedited
 GGACGCGCCGCAATCTAAAGTCGAGTTTTTTTTTTTTTTTTTTTTCACACTCAAATGTT
 TTTATTGGATTTAATTTCCAAACATTGACATTTTAAACAATTTTGAAGACTCTGAAT
 TTTTGCAGGGCTATTTTGGATACTGTAAAAAAAAAAAAAAAAAGAAACAACACACACACA
 CACACACTCATAGCAGAGCTGCTCTGCTCGCTCTAAGGCCTCTTTGAGGGAAGGACAGTT
 CCAAAAGGCACTGACCGGTGACATGGGTGGGCCCTGCCCTCCTCAGGCAGCCAGCTCAG
 CCATGGCCCTGTCCAAGGGGTCCACAGACCAGTAATCATCATCCAGTCAAGGAACCAGC
 CCACAAAGGAGGGAGGCTCAAAGCCTTGCTTAACCACGGTGATGGGCGTCCGCCGATCCC
 GATTGGCTGGGACCGCTCGATGTACCGTTTAGCACAAGCCAAGGCTTCCGTCTTCCCTT
 CTTCTTGAGAATCCTTTACAACCCACACAAAGACCTGGTCCCAGCTGTCCAGAAGCATGA
 CGCCATCCCGCCAGGACTTCTGCATGAGCTACCAGGAACCTTTTCATCACAAAAC
 GTTCAATCTTGTGGAGCAGGCAAAGAGGCGAGGAGGATGGCCATCCATCTTCTTGCTCT
 TCAACCGTGGGGATGCGCGTAAGGCAAACCTCCCGCCACGGCCTCCAGAAAGCATCTGGC
 TCGCTGCCTTCTGCCACCTGCAAGGTTGCGCCCGCACACCCTGAGAACTCCTGGCCCCCG
 CTTTCTGCTTGTGCTCCTGACCCACCCCAAGGTAGTCGGCTGAAGAGGCTCTAAGA
 ACAAAAGCCCGGTGGAGTTATTGCACCCTCTAGAATAACTAAAAGACCCGGCGGTTCC
 ACCCTTGTGTCGTACCCGTAATAACTGGCCCTGCAAGGCT

Restriction Sites:

NotI-NotI

ACCN:

NM_000177

Insert Size:

2700 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
Components:	<p>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).</p>
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_000177.3 , NP_000168.1
RefSeq Size:	2705 bp
RefSeq ORF:	2349 bp
Locus ID:	2934
UniProt ID:	P06396
Cytogenetics:	9q33.2
Domains:	GEL, Gelsolin
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	Fc gamma R-mediated phagocytosis, Regulation of actin cytoskeleton
Gene Summary:	<p>The protein encoded by this gene binds to the "plus" ends of actin monomers and filaments to prevent monomer exchange. The encoded calcium-regulated protein functions in both assembly and disassembly of actin filaments. Defects in this gene are a cause of familial amyloidosis Finnish type (FAF). Multiple transcript variants encoding several different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (a).</p>