

Product datasheet for **SC107769**

Gelsolin (GSN) (NM_198252) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gelsolin (GSN) (NM_198252) 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_198252, the custom clone sequence may differ by one or more nucleotides

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ATGGTGGTGGAAACCCCCGAGTTCCTCAAGGCAGGGAAGGAGCCTGGCCTGCAGATCTGGCGTGTGGAGA
AGTTCGATCTGGTGCCCGTGCCACCAACCTTTATGGAGACTTCTCACGGGCGACGCCTACGTCATCCT
GAAGACAGTGCAGCTGAGGAACGGAAATCTGCAGTATGACCTCCACTACTGGCTGGGCAATGAGTGCAGC
CAGGATGAGAGCGGGGCGGCCCATCTTTACCGTGCAGCTGGATGACTACCTGAACGGCCGGCGGTGC
AGCACCGTGAGGTCCAGGGCTTCGAGTCGGCCACCTTCCTAGGCTACTTCAAGTCTGGCCTGAAGTACAA
GAAAGGAGGTGTGGCATCAGGATTCAAGCACGTGGTACCCAACGAGGTGGTGGTGCAGAGACTCTCCAG
GTCAAAGGGCGCGTGTGGTCCGTGCCACCGAGGTACCTGTGTCTGGGAGAGCTTCAACAATGGCGACT
GCTTCATCCTGGACCTGGGCAACAACATCCACCAGTGGTGTGGTCCAACAGCAATCGGTATGAAAGACT
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AGGACACCGCCAAGGAGGATGCGGCCAACCGCAAGCTGGCCAAGCTCTACAAGTCTCCAATGGTGCAGG
GACCATGTCCGTCTCCCTCGTGGCTGATGAGAACCCTTCGCCAGGGGGCCCTGAAGTCAAGGACTGC
TTCATCCTGGACCACGGCAAAGATGGGAAAATCTTTGTCTGAAAAGGCAAGCAGGCAAACACGGAGGAGA
GGAAGGCTGCCCTCAAAACAGCCTCTGACTTCATCACCAGATGGACTACCCCAAGCAGACTCAGGTCTC
GGTCTTCTGAGGGCGGTGAGACCCCACTGTTCAAGCAGTTCCTCAAGAAGTGGCGGGACCCAGACCAG
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CCACCTGCACACCTCCACTGCCATGGCCGCCAGCACGGCATGGATGACGATGGCACAGGCCAGAAACA
GATCTGGAGAATCGAAGGTTCCAACAAGGTGCCCGTGGACCCTGCCACATATGGACAGTTCTATGGAGGC
GACAGCTACATCATTCTGTACAACCTACCGCCATGGTGGCCGCCAGGGGCGAGATAATCTATAACTGGCAGG
GTGCCCAGTCTACCCAGGATGAGGTGCTGCTGCCATCTGCCATCCTGACTGCTCAGCTGGATGAGGAGCTGGG
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AAGCCCATGATCATCTACAAGGGCGGCACCTCCCGCGAGGGCGGGCAGACAGCCCTGCCAGCACCAGCC
TCTTCCAGGTCGCGCCAACAGCGCTGGAGCCACCCGGGCTGTTGAGGTATTGCCAAGGCTGGTGCAC
TGAACCTCAACGATGCCTTTGTTCTGAAAACCCCTCAGCCGCCTACCTGTGGTGGGTACAGGAGCCAGC
GAGGCAGAGAAGACGGGGGCCAGGAGCTGCTCAGGGTGTGCGGGCCCAACCTGTGCAGGTGGCAGAAG
GCAGCGAGCCAGATGGCTTCTGGGAGGCCCTGGGCGGAAGGCTGCCTACCGCACATCCCCACGGCTGAA
GGACAAGAAGATGGATGCCATCCTCCTCGCCTTTTGCCTGCTCCAACAAGATTGGACGTTTTGTGATC
GAAGAGGTTCTGGTGAAGCTCATGCAGGAAGACCTGGCAACGGATGACGTGATGCTTCTGGACACCTGGG
ACCAGGCTTTGTCTGGGTTGAAAGGATTCTCAAGAAGAAGAAAAGACAGAAGCCTTGACTTCTGCTAA
GCGGTACATCGAGACGGACCCAGCCAATCGGGATCGGCGGACGCCATCACCGTGGTGAAGCAAGGCTTT
GAGCCTCCCTCCTTTGTGGGCTGGTTCCTTGGCTGGGATGATGATTACTGGTCTGTGGACCCCTGGACA
GGCCATGGCTGAGCTGGCTGCCTGA
    
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_198252 unedited GGCAGAATTTTGNATACGACTCACTATAGGGCGGCCCGAATTCGCACCAGCAGCAGG TAGTGTCTCATAGCTCTCTTTGTCCAGTGCTTCGGCCTTGGTCCCAGCGCCTTCCCACGGA GCAGCACTCTTACCCTGCACAGCCTTGTAGCCCAACAGCATGGTGGTGGAAACACCCCG AGTTCCTCAAGGCAGGGAAGGAGCCTGGCCTGCAGATCTGGCGTGTGGAGAAGTTCGATC TGGTGCCCGTGCCACCAACCTTTATGGAGACTTCTTACGGGCGACGCCTACGTATCC TGAAGACAGTGCAGCTGAGGAACGGAAATCTGCAGTATGACCTCCACTACTGGCTGGGCA ATGAGTGCAGCCAGGATGAGAGCGGGGCGGCCCATCTTTACCGTGCAGCTGGATGACT ACCTGAACGGCCGGGCCGTGCAGCACCGTGAGGTCCAGGGCTTCGAGTCGGCCACCTTCC TAGGCTACTTCAAGTCTGGCCTGAAGTACAAGAAAGGAGGTGTGGCATCAGGATTCAAGC ACGTGGTACCCAACGAGGTGGTGGTGCAGAGACTTCCAGGTCAAAGGGCGGCGTGTGG TCCGTGCCACCGAGGTACCTGTGTCTGGGAGAGCTTCAACAATGGCGACTGCTTCATCC TGGACCTGNGCAACAACATCCACAGTGGTGTGGNTCCCAACAGCATCGGTATGAAAGAC TGAAGGCCACACAGTGTCCAAGGGCATCCGGGACAACGAGCGGAGTGGCCGGGCCCGAGT GCACGTGTCTGAGGAGGGCACTGAGCCCGAGCGATGCTCCAGTGTGGGCCCAAAGCCG CTCTGCTGCAGTACCCGAGACACGNCNNAGAGATGCGCCACCGCAGCTGCCAGCTCTACA GTCTCAATGTGCAGGACATGTGGCTCCTCGGGCTGAG
Restriction Sites:	NotI-NotI
ACCN:	NM_198252
OTI Disclaimer:	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. 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
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_198252.1 , NP_937895.1
RefSeq Size:	2685 bp

RefSeq ORF:	2685 bp
Locus ID:	2934
UniProt ID:	P06396
Cytogenetics:	9q33.2
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 (2) differs in the 5' UTR and coding sequence compared to variant 1. The resulting isoform (b) has a shorter N-terminus compared to isoform a. Variants 2, 3, 5, 6, and 11-20 all encode isoform b.</p>