

## Product datasheet for **SC323186**

### Gelsolin (GSN) (NM\_001127664) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gelsolin (GSN) (NM_001127664) Human Untagged Clone
Tag:	Tag Free
Symbol:	Gelsolin
Synonyms:	ADF; AGEL
Vector:	<u>pCMV6 series</u>



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001127664, the custom clone sequence may differ by one or more nucleotides

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ATGGTGGTGGAAACACCCCGAGTTCCTCAAGGCAGGGAAGGAGCCTGGCCTGCAGATCTGG
CGTGTGGAGAAGTTCGATCTGGTGCCCGTGCCCAACCTTTATGGAGACTTCTTCACG
GGCGACGCCTACGTATCCTGAAGACAGTGCAGCTGAGGAACGGAATCTGCAGTATGAC
CTCCACTACTGGCTGGGCAATGAGTGCAGCCAGGATGAGAGCGGGGCGGCCCATCTTT
ACCGTGCAGCTGGATGACTACCTGAACGCGCCGGCCGTGCAGCACCGTGAGGTCCAGGGC
TTCGAGTCGGCCACCTTCTAGGCTACTTCAAGTCTGGCCTGAAGTACAAGAAAGGAGGT
GTGGCATCAGGATTCAAGCACGTGGTACCCAACGAGGTGGTGGTGCAGAGACTCTCCAG
GTCAAAGGGCGCGTGTGGTCCGTGCCACCGAGGTACCTGTGCTGGGAGAGCTTCAAC
AATGGCGACTGCTTCATCCTGGACCTGGGCAACAACATCCACCAGTGGTGTGGTTCCAAC
AGCAATCGGTATGAAAGACTGAAGGCCACACAGGTGTCCAAGGGCATCCGGGACAACGAG
CGGAGTGGCCGGGCCGAGTGCACGTGTCTGAGGAGGGCACTGAGCCCGAGGCGATGCTC
CAGGTGTGGGCCCAAGCCGGCTCTGCCTGCAGGTACCGAGGACACCGCAAGGAGGAT
GCGGCCAACCGCAAGCTGGCCAAGCTCTACAAGTCTCCAATGGTGCAGGGACCATGTCC
GTCTCCCTCGTGGCTGATGAGAACCCTTCGCCAGGGGGCCCTGAAGTCAAGAGGACTGC
TTCATCCTGGACCACGGCAAAGATGGGAAAATCTTTGTCTGGAAGGCAAGCAGGCAAAC
ACGGAGGAGAGGAAGGCTGCCCTCAAAACAGCCTCTGACTTCATCACAAGATGGACTAC
CCCAAGCAGACTCAGGTCTCGGTCTTCTGAGGGCGGTGAGACCCCACTGTTCAAGCAG
TTCTTCAAGAAGTGGCGGGACCCAGACCAGACAGATGGCTGGGCTTGTCTACCTTTCC
AGCCATATCGCCAACGTGGAGCGGGTCCCTTCGACGCCGCCACCTGCACACCTCCACT
GCCATGGCCGCCAGCACGGCATGGATGACGATGGCACAGGCCAGAAACAGATCTGGAGA
ATCGAAGGTTCCAACAAGGTGCCCGTGGACCCTGCCACATATGGACAGTTCTATGGAGGC
GACAGTACATCATTCTGTACAACCTACCGCCATGGTGGCCGCCAGGGGCAGATAATCTAT
AACTGGCAGGGTGCCAGTCTACCCAGGATGAGGTGCTGCATCTGCCATCCTGACTGCT
CAGCTGGATGAGGAGCTGGGAGGTACCCCTGTCCAGAGCCGTGTGGTCCAAGGCAAGGAG
CCCGCCACCTCATGAGCCTGTTTGGTGGGAAGCCATGATCATCTACAAGGGCGGCACC
TCCCGCGAGGGCGGGCAGACAGCCCTGCCAGCACCCGCCTTTCCAGGTCCGCGCCAAC
AGCGCTGGAGCCACCCGGGCTGTTGAGGTATTGCCTAAGGCTGGTGCCTGAACTCCAAC
GATGCCTTTGTTCTGAAAACCCCTCAGCCGCTACCTGTGGGTGGGTACAGGAGCCAGC
GAGGCAGAGAAGACGGGGGCCAGGAGCTGCTCAGGGTGTGCGGGCCCAACCTGTGCAG
GTGGCAGAAGGCAGCAGCCAGATGGCTTCTGGGAGGCCCTGGCGGGAAAGGCTGCCTAC
CGCACATCCCCACGGCTGAAGGACAAGAAGATGGATGCCATCCTCCTCGCCTTTTGCC
TGCTCCAACAAGATTGGACGTTTTGTGATCGAAGAGGTTCTGGTGGTGCATGCAGGAA
GACCTGGCAACGGATGACGTGATGCTTCTGGACACCTGGGACCAGGTCTTTGTCTGGGT
GGAAAGGATTCTCAAGAAGAAGAAAAGACAGAAGCCTTGACTTCTGCTAAGCGGTACATC
GAGACGGACCCAGCCAATCGGGATCGGCGGACGCCCATCACCGTGGTGAAGCAAGGCTTT
GAGCCTCCCTCCTTTGTGGGCTGGTTCCTTGGCTGGGATGATGATTACTGGTCTGTGGAC
CCCTTGGACAGGGCCATGGCTGAGCTGGCTGCC

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- Restriction Sites:** Please inquire
- ACCN:** NM\_001127664
- 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001127664.1, NP_001121136.1</u>
<b>RefSeq Size:</b>	2764 bp
<b>RefSeq ORF:</b>	2196 bp
<b>Locus ID:</b>	2934
<b>UniProt ID:</b>	<u>P06396</u>
<b>Cytogenetics:</b>	9q33.2
<b>Protein Families:</b>	Druggable Genome, Secreted Protein
<b>Protein Pathways:</b>	Fc gamma R-mediated phagocytosis, Regulation of actin cytoskeleton
<b>Gene Summary:</b>	<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 (5) 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>