

Product datasheet for **RC226120**

Gelsolin (GSN) (NM_001127664) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gelsolin (GSN) (NM_001127664) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gelsolin
Synonyms:	ADF; AGEL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC226120 representing NM_001127664
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTCCGACCGCCCCGCGCCCGCTGCTTTGCGCGTGTCCCTGGCGCTGTGCGCGTGTGCTGTC
 CCGTCCGCGCGGCCACTGCGTCGCGGGGGCGTCCCAGGCGGGGCGCCCCAGGGCGGGTGCCCGAGGC
 GCGGCCAACAGCATGGTGGTGAACACCCGAGTTCCTCAAGGCAGGGAAGGAGCCTGGCCTGCAGATC
 TGGCGTGTGGAGAAGTTCGATCTGGTGCCTGCCACCAACCTTTATGGAGACTTCTCACGGGCGACG
 CCTACGTCATCCTGAAGACAGTGCAGCTGAGGAACGAAATCTGCAGTATGACCTCCACTACTGGCTGGG
 CAATGAGTGCAGCCAGGATGAGAGCGGGGCGGCCCATCTTTACCGTGCAGCTGGATGACTACCTGAAC
 GGCCGGGCGTGCAGCACCGTGAAGTCCAGGGCTTCGAGTCGGCCACCTTCTAGGCTACTTCAAGTCTG
 GCCTGAAGTACAAGAAAGGAGGTGTGGCATCAGGATCAAGCACGTGGTACCCAACGAGGTGGTGGTGA
 GAGACTTTCAGGTCAAAGGGCGCGTGTGGTCCGTGCCACCGAGGTACCTGTGTCCTGGGAGAGCTTC
 AACAAATGGCGACTGCTTCATCCTGGACCTGGGCAACAACATCCACCAGTGGTGTGGTTCCAACAGCAATC
 GGTATGAAAGACTGAAGGCCACACAGGTGTCCAAGGCATCCGGGACAACGAGCGGAGTGGCCGGGCCCCG
 AGTGCACGTGTCTGAGGAGGGCACTGAGCCGAGGCGATGCTCCAGGTGCTGGGCCCAAGCCGGCTCTG
 CCTGCAGTACCGAGGACCCGCAAGGAGGATGCGGCCAACCGCAAGCTGGCCAAGCTCTACAAGTCT
 CCAATGGTGCAGGGACCATGTCCGTCTCCCTCGTGGTGTGAGAACCCCTTCGCCAGGGGGCCCTGAA
 GTCAGAGGACTGCTTCATCCTGGACCACGGCAAAGATGGGAAAATCTTTGTCTGGAAAGGCAAGCAGGCA
 AACACGGAGGAGGAAGGCTGCCCTCAAACAGCCTCTGACTTCATACCAAGATGGACTACCCCAAGC
 AGACTCAGGTCTCGTCTTCTGAGGGCGGTGAGACCCCACTGTTCAAGCAGTCTTCAAGAACTTCAAGC
 GGACCCAGACCAGACAGATGGCCTGGGCTTGCCTACCTTTCCAGCCATATCGCCAACGTGGAGCGGGTG
 CCCTTCGACGCCGCCACCTGCACACCTCCACTGCCATGGCCGCCAGCACGGCATGGATGACGATGGCA
 CAGGCCAGAAACAGATCTGGAGAATCGAAGGTTCCAACAAGGTGCCCGTGGACCTGCCACATATGGACA
 GTTCTATGGAGGCGACAGCTACATCATTCTGTACAACCTACCGCCATGGTGGCCGCCAGGGGCGAGATAATC
 TATAACTGGCAGGGTGCCAGTCTACCCAGGATGAGGTGCTGCATCTGCCATCTGACTGCTCAGCTGG
 ATGAGGAGCTGGGAGGTACCCCTGTCCAGAGCCGTGGTCCAAGGCAAGGAGCCCGCCACCTCATGAG
 CCTGTTTGGTGGGAAGCCATGATCATCTACAAGGGCGGCACCTCCCGAGGGCGGGCAGACAGCCCT
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 AGGCTGGTGCAGTGAACCTCAACGATGCCTTTGTTCTGAAAACCCCTCAGCCGCCTACCTGTGGGTGGG
 TACAGGAGCCAGCGAGGAGAGACGAGGAGGCGCCAGGAGCTGCTCAGGGTGTGCGGGGCCAACCTGTG
 CAGGTGGCAGAAGGCAGCGAGCCAGATGGCTTCTGGGAGGCCCTGGGCGGGAAGGCTGCCTACCGCACAT
 CCCACGGCTGAAGGACAAGAAGATGGATGCCATCCTCCTCGCCTTTTGCCTGCTCCAACAAGATTGG
 ACGTTTTGTGATCGAAGAGGTTCTGGTGAAGTGCATGCAGGAAGACCTGGCAACGGATGACGTCATGCTT
 CTGGACACCTGGGACCAGGTCTTTGTCTGGGTTGAAAGGATTCTCAAGAAGAAGAAAAGACAGAAGCCT
 TGACTTCTGCTAAGCGGTACATCGAGACGACCCAGCCAATCGGGATCGGCGGACGCCATCACCCGTGGT
 GAAGCAAGGCTTTGAGCCTCCCTCCTTTGTGGGCTGGTTCCTTGGCTGGGATGATGATTACTGGTCTGTG
 GACCCCTTGGACAGGGCCATGGCTGAGCTGGCTGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC226120 representing NM_001127664
Red=Cloning site Green=Tags(s)

MAPHRPAPALLCALSLALCALSLPVRAATASRGASQAGAPQGRVPEARPNSMVVEHPEFLKAGKEPGLQI
WRVEKFDLVPVPTNLYGDFFTGDAYVILKTVQLRNGNLQYDLHYWLGNECSQDESGAAAIFTVQLDDYLN
GRAVQHREVQGFESATFLGYFKSGLKYKKGCVASGFKHVVPNEVVVQRLFQVKGRRVVRATEVPSWESF
NNGDCFILDLGNNIHQWCGSNSNRYERLKATQVSKGIRDNERSGRARVHVSEEGTEPEAMLQVLGPKPAL
PAGTEDTAKEDAANRKLAKLYKVSNGAGTMSVSLVADENPFAQGALKSEDCFILDHGKDGKIFVWKGKQA
NTEERKAALKTASDFITKMDYPKQTQVSVLPEGGETPLFKQFFKNWRDPDQTDGLGLSYLSSHIANVERV
PFDAATLHTSTAMAAQHGMDDDDGTGQKQIWRIEGSNKVPVDPATYGFYGGDSYIILYNYRHGGRQGQII
YNWQGAQSTQDEVAASAILTAQLDEELGGTPVQSRVVQGKEPAHLSLFGGKPMI IYKGGTSREGGQTAP
ASTRLFQVRANSAGATRAVEVLPKAGALNSNDAFVLKTPSAAYLWVGTGASEAEKTGAQELLRVLRAQPV
QVAEGSEPDGFWEALGGKAAAYRTSPRLKDKKMDAHPPLFACSNKIGRFVIEEVPGELMQEDLATDDVML
LDTWDQVFVWVGKDSQEEKTEALTSAKRYIETDPANRDRRTPITVVKQGFEPSPFVGWFLGWDDDYWSV
DPLDRAMAELAA

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_001127664

ORF Size: 2349 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. [More info](#)

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:

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_001127664.1](#), [NP_001121136.1](#)

RefSeq Size: 2764 bp

RefSeq ORF: 2196 bp

Locus ID: 2934

UniProt ID: [P06396](#)

Cytogenetics: 9q33.2

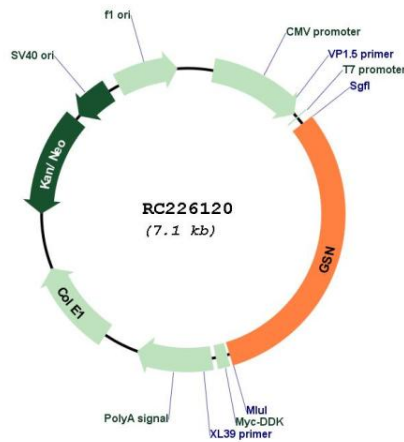
Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: Fc gamma R-mediated phagocytosis, Regulation of actin cytoskeleton

MW: 85.7 kDa

Gene Summary: 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]

Product images:



Circular map for RC226120