

Product datasheet for **RC226117**

Gelsolin (GSN) (NM_001127662) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gelsolin (GSN) (NM_001127662) 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:**

>RC226117 representing NM_001127662
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTCCGCACCGCCCCGCGCCGCGTCTTTGCGCGCTGTCCCTGGCGCTGTGCGCGCTGTGCTGCG
 CCGTCCGCGCGGCCACTGCGTCGCGGGGGCGTCCCAGGCGGGGGCGCCCCAGGGCGGGTGCCCGAGGC
 GCGGCCCAACAGCATGGTGGTGAACACCCGAGTTCTCAAGGCAGGGAAGGAGCTGGCCTGCAGATC
 TGGCGTGTGGAGAAGTTCGATCTGGTCCCCGTGCCACCAACCTTTATGGAGACTTCTTACGGGCGACG
 CCTACGTCATCTGAAGACAGTGCAGCTGAGGAACGGAATCTGCAGTATGACCTCCACTACTGGCTGGG
 CAATGAGTGCAGCCAGGATGAGAGCGGGGCGGCCCATCTTTACCGTGCAGCTGGATGACTACCTGAAC
 GGCCGGGCGGTGCAGCACCGTGAGGTCCAGGGCTTCGAGTCGGCCACCTTCTAGGCTACTTCAAGTCTG
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 AGTGACGTGTCTGAGGAGGGCACTGAGCCCGAGGCGATGCTCCAGGTGCTGGGCCCCAAGCCGGCTCTG
 CCTGCAGGTACCGAGGACACCGCAAGGAGGATGCGGCCAACCGCAAGCTGGCCAAGCTCTACAAGGTCT
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 AACACGGAGGAGAGGAAGGCTGCCCTCAAACAGCCTCTGACTTCATACCAAGATGGACTACCCCAAGC
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 GAAGCAAGGCTTTGAGCCTCCCTCTTTGTGGGCTGGTTCCTTGGCTGGGATGATGATTACTGGTCTGTG
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ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC226117 representing NM_001127662
 Red=Cloning site Green=Tags(s)

MAPHRPAPALLCALSLALCALSLPVRAATASRGASQAGAPQGRVPEARPNMVEHPEFLKAGKEPGLQI
 WRVEKFDLVPVPTNLYGDDFTGDAYVILKTVQLRNGNLQYDLHYWLGNECSQDESGAAAIFTVQLDDYLN
 GRAVQHREVQGFESATFLGYFKSGLKYKKGGVASGFKHVPNEVVVQRLFQVKGRRVVRATEVPVSWESF
 NNGDCFILDLGNNIHQWCGSNSNRYERLKATQVSKGIRDNERSGRARVHVSEEGTEPEAMLQVLGPKPAL
 PAGTEDTAKEDAANRKLAKLYKVSNGAGTMSVSLVADENPFAQGALKSEDCFILDHGKDGKIFVWKGKQA
 NTEERKAALKTASDFITKMDYPKQTQVSVLPEGGETPLFKQFFKNWRDPDQTDGLGLSYLSSHIANVERV
 PFDAATLHTSTAMAAQHGMDDDG TGQKQIWRIEGSNKVPVDPATYGGQFYGGDSYIILYNYRHGGRQGQII
 YNWQGAQSTQDEVAASAILTAQLDEELGGTPVQSRVVQGKEPAHLSLFGGKPMI IYKGGTSREGGQTAP
 ASTRLFQVRANSAGATRAVEVL PKAGALNSNDAFVLKTPSAAYLWVGTGASEAEKTGAQELLRLVLAQPV
 QVAEGSEPDGFWALGGKAA YRTSPRLKDKKMDAHPRLFACSNKIGRFVIEEVPGELMQEDLATDDVML
 LDTWDQVFVWVGKDSQEEEEKTEALTSAKRYIETDPANRRRTPITVVKQGFEPSPFVGWFLGWDDDYWSV
 DPLDRAMAELAA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

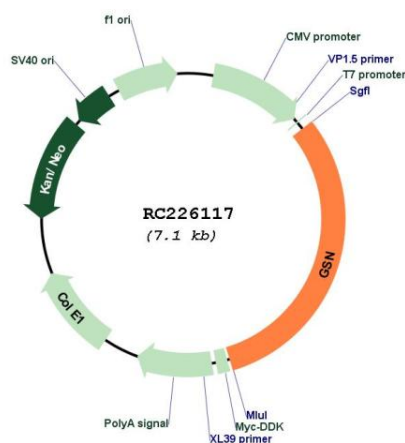
Cloning Scheme:



ACCN:	NM_001127662
ORF Size:	2346 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001127662.1, NP_001121134.1</u>
RefSeq Size:	2592 bp
RefSeq ORF:	2196 bp
Locus ID:	2934
UniProt ID:	<u>P06396</u>
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 RC226117