

Product datasheet for **RC234823**

Gelsolin (GSN) (NM_001258029) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gelsolin (GSN) (NM_001258029) 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:

>RC234823 representing NM_001258029
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGAGGAAGAAGCCCTCAGGGCAATTCTGACCCATGGCCCAACAGCATGGTGGTGAACACCCCG
 AGTTCCTCAAGGCAGGAAGGAGCCTGGCCTGCAGATCTGGCGTGTGGAGAAGTTCGATCTGGTGCCCGT
 GCCCACCAACCTTTATGGAGACTTCTTACGGGCGACGCCTACGTCATCCTGAAGACAGTGCAGCTGAGG
 AACGGAATCTGCAGTATGACCTCCACTACTGGCTGGCAATGAGTGCAGCCAGGATGAGAGCGGGGCGG
 CCGCCATCTTTACCGTGCAGCTGGATGACTACCTGAACGGCCGGGCCGTGCAGCACCGTGAGGTCCAGGG
 CTTGAGTCGGCCACCTTCTAGGCTACTTCAAGTCTGGCCTGAAGTACAAGAAAGGAGGTGTGGCATCA
 GGATCAAGCACGTGGTACCCAACGAGGTGGTGGTGCAGAGACTTCCAGGTCAAAGGGCGCGGTGTGG
 TCCGTGCCACCGAGGTACCTGTGTCTGGGAGAGCTTCAACAATGGCGACTGCTTCATCCTGGACCTGGG
 CAACAACATCCACAGTGGTGTGGTTCCAACAGCAATCGGTATGAAAGACTGAAGGCCACACAGGTGTC
 AAGGGCATCCGGGACAACGAGCGGAGTGGCCGGGCCCGAGTGCACGTGTCTGAGGAGGGCACTGAGCCCG
 AGGCGATGCTCCAGGTGCTGGGCCCAAGCCGGCTCTGCCTGCAGGTACCGAGGACACCGCCAAGGAGGA
 TGCGGCCAACCGCAAGCTGGCCAAGCTCTACAAGTCTCCAATGGTGCAGGGACCATGTCCGTCTCCCTC
 GTGGCTGATGAGAACCCCTTCGCCCAGGGGGCCCTGAAGTCAAGGACTGCTTTCATCCTGGACCAGGGCA
 AAGATGGGAAAATCTTTGTCTGGAAAGGCAAGCAGGCAACACGGAGGAGAGGAAGGCTGCCCTCAAAC
 AGCCTCTGACTTCATCACAAGATGGACTACCCAAGCAGACTCAGGTCTCGTCTTCTGAGGGCGGT
 GAGACCCCACTGTTCAAGCAGTTCTTCAAGAAGTGGCGGGACCCAGACCAGACAGATGGCCTGGGCTTGT
 CCTACCTTCCAGCCATATCGCCAACGTGGAGCGGGTCCCTTCGACGCCGCCACCTGCACACCTCCAC
 TGCCATGGCCGCCAGCACGGCATGGATGACGATGGCACAGGCCAGAAACAGATCTGGAGAATCGAAGGT
 TCCAACAAGGTGCCCGTGGACCTGCCACATATGGACAGTTCTATGGAGGCGACGCTACATCATTCTGT
 ACAACTACCGCCATGGTGGCCGCCAGGGGAGATAATCTATAACTGGCAGGGTGGCCAGTCTACCCAGGA
 TGAGGTGCTGCATCTGCCATCTGACTGCTCAGCTGGATGAGGAGCTGGGAGGTACCCCTGTCCAGAGC
 CGTGTGGTCCAAGGCAAGGAGCCCGCCACCTCATGAGCCTGTTTGGTGGGAAGCCCATGATCATCTACA
 AGGGCGGCACCTCCCGCAGGGCGGGCAGACAGCCCTGCCAGCACCCGCTCTTCCAGGTCCGCGCCAA
 CAGCGCTGGAGCCACCCGGGCTGTTGAGGTATTGCCTAAGGCTGGTGCCTGAACCCAACGATGCCTTT
 GTTCTGAAAACCCCTCAGCCGCTACCTGTGGGTGGGTACAGGAGCCAGCGAGGCAGAGAAGACGGGGG
 CCCAGGAGCTGCTCAGGTGCTGCGGGCCCAACCTGTGCAGGTGGCAGAAGGCAGCGAGCCAGATGGCTT
 CTGGGAGGCCCTGGGCGGGAAGGCTGCCTACCGCACATCCCACGGCTGAAGGACAAGAAGATGGATGCC
 CATCCTCCTCGCCTCTTTGCCTGCTCCAACAAGATTGGACGTTTTGTGATCGAAGAGGTTCTGGTGGC
 TCATGCAGGAAGACCTGGCAACGGATGACGTATGCTTCTGGACACCTGGGACCAGGTCTTTGTCTGGGT
 TGGAAAGGATTCTCAAGAAGAAGAAAAGACAGAAGCCTTGACTTCTGCTAAGCGGTACATCGAGACGGAC
 CCAGCCAATCGGGATCGGCGGACGCCATCACCGTGGTGAAGCAAGGCTTTGAGCCTCCCTCCTTTGTGG
 GCTGGTTCTTGGCTGGGATGATGATTACTGGTCTGTGGACCCCTTGACAGGGCCATGGCTGAGCTGGC
 TGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC234823 representing NM_001258029
 Red=Cloning site Green=Tags(s)

MAEEEALRGNSDPWPNSMVVEHPEFLKAGKEPGLQIWRVEKFDLVPVPTNLYGDFFTGDAYVILKTVQLR
 NGNLQYDLHYWLGNECSQDESGAAAIFTVQLDDYLNGRAVQHREVQGFESATFLGYFKSGLKYKGGVAS
 GFKHVVPNVEVVQRLFQVKGRRVVRATEVPVSWESFNNGDCFILDLGNNIHQWCGSNSNRYERLKATQVS
 KGIRDNERSGRARVHVSEEGTEPEAMLQVLGPKPALPAGTEDTAKEDAANRKLAKLYKVSNGAGTMSVSL
 VADENPF AQGALKSEDCFILDHGKDGKIFVWKGKQANTEERKAALKTASDFITKMDYPKQTQVSVLPEGG
 ETPLFKQFFKNWRDPDQTDGLGLSYLSSHIANVERVPFDAATLHTSTAMAAQHGMDDGTGQKQIWRIEG
 SNKVPVDPATYGQFYGGDSYIILYNYRHGGRQGIYINWGAQSTQDEVAASAILTAQLDEELGGTPVQS
 RVVQGKEPAHLMSLFGGKPMIIYKGGTSREGGQTAPASTRLFQVRANSAGATRAVEVLPKAGALNSDAF
 VLKTPSAAYLWVG TGASEAEKTGAQELLRVLRAQPVQVAEGSEPDGFWEALGGKAAVRTSPRLKDKKMDA
 HPPRLFACSNKIGRFVIEEVPGELMQEDLATDDVMLLDTWDQVFVWVGKDSQEEKEALTS AKRYIETD
 PANRDRRTPITVVKQGFEPSPFVGWFLGWDDDYWSVDPLDRAMAELAA

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001258029

ORF Size: 2244 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_001258029.2](#)

RefSeq Size: 2579 bp

RefSeq ORF: 2247 bp

Locus ID: 2934

UniProt ID: [P06396](#)

Cytogenetics: 9q33.2

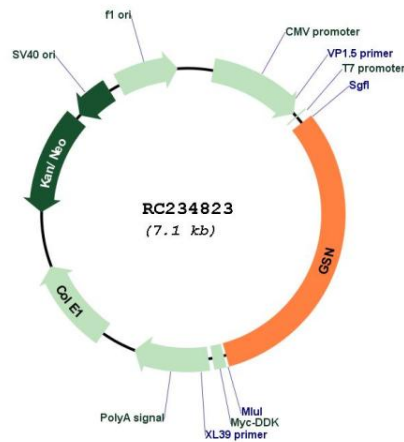
Protein Families: Druggable Genome, Secreted Protein

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

MW: 83 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 RC234823