

Product datasheet for **RC234803**

Gelsolin (GSN) (NM_001258030) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gelsolin (GSN) (NM_001258030) 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:

>RC234803 representing NM_001258030
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCACTGTGTACACCCAACAGCATGGTGGTGGAAACACCCCGAGTTCCTCAAGGCAGGGAAGGAGCCTG
 GCCTGCAGATCTGGCGTGTGGAGAAGTTCGATCTGGTGCCGTGCCACCAACCTTTATGGAGACTTCTT
 CACGGGGCAGCCCTACGTCATCCTGAAGACAGTGCAGCTGAGGAACGAAATCTGCAGTATGACCTCCAC
 TACTGGCTGGGAATGAGTGCAGCCAGGATGAGAGCGGGCGGCCCATCTTTACCGTGCAGCTGGATG
 ACTACCTGAACGGCCGGCCGTGCAGCACCGTGGTCCAGGGCTTCGAGTCGGCCACCTTCTAGGCTA
 CTTCAAGTCTGGCTGAAGTACAAGAAAGGAGGTGTGGCATCAGGATCAAGCACGTGGTACCCAACGAG
 GTGGTGGTGCAGAGACTTCCAGGTCAAAGGGCGCGTGTGGTCCGTGCCACCGAGGTACCTGTGTCT
 GGGAGAGCTTCAACAATGGCGACTGCTTATCCTGGACCTGGCAACAACATCCACCAGTGGTGTGGTTC
 CAACAGCAATCGGTATGAAAGACTGAAGGCCACACAGGTGTCCAAGGGCATCCGGGACAACGAGCGGAGT
 GGCCGGGCCCCGAGTGCAGGTGTCTGAGGAGGGCACTGAGCCCAGGCGATGCTCCAGGTGCTGGGCCCA
 AGCCGGCTCTGCCTGCAGGTACCGAGGACACCGCAAGGAGGATGCGGCCAACCGCAAGCTGGCCAAGCT
 CTAACAAGTCTCCAATGGTGCAGGGACCATGTCCGTCTCCCTCGTGGTGGTATGAGAACCCCTTCGCCAG
 GGGGCCCTGAAGTCAGAGGACTGCTTATCCTGGACCACGGCAAAGATGGGAAAACTTTGTCTGAAAAG
 GCAAGCAGGCAACACGGAGGAGAGGAAGGCTGCCCTCAAACAGCCTCTGACTTCATCACCAGATGGA
 CTACCCCAAGCAGACTCAGGTCTCGTCTTCTGAGGGCGGTGAGACCCCACTGTTCAAGCAGTCTTTC
 AAGAATGGCGGGACCCAGACCAGACAGATGGCCTGGCTTGTCTACCTTTCCAGCCATATCGCCAACG
 TGGACGGGTGCCCTTCGACGCCACCCTGCACACCTCCACTGCCATGGCCGCCAGCAGCCGATGGA
 TGACGATGGCACAGGCCAGAAACAGATCTGGAGAATCGAAGGTTCCAACAAGGTGCCCGTGGACCTGCC
 ACATATGGACAGTCTATGGAGGCGACAGCTACATCATTCTGTACAACCTACCGCCATGGTGGCCGCCAGG
 GGCAGATAATCTATAACTGGCAGGGTGCCAGTCTACCCAGGATGAGGTGCTGCATCTGCCATCTGAC
 TGCTCAGCTGGATGAGGAGCTGGGAGGTACCCCTGTCCAGAGCCGTGTGGTCCAAGGCAAGGAGCCCGCC
 CACCTCATGAGCCTGTTTGGTGGGAAGCCCATGATCATCTACAAGGGCGGCACCTCCCGGAGGGCGGGC
 AGACAGCCCTGCCAGCACCCGCTCTTCCAGGTCCGCGCAACAGCGCTGGAGCCACCCGGGCTGTTGA
 GGTATTGCCTAAGGCTGGTGCAGTGAACCCAACGATGCCTTTGTCTGAAAACCCCTCAGCCGCTAC
 CTGTGGGTGGGTACAGGAGCCAGCGAGGCAGAGAAGACGGGGCCAGGAGCTGCTCAGGTGCTGCGGG
 CCCAACCTGTGCAGGTGGCAGAAGGCAGCGAGCCAGATGGCTTCTGGGAGGCCCTGGGCGGGAAGGCTGC
 CTACCGCACATCCCCACGGCTGAAGGACAAGAAGATGGATGCCCATCCTCCTCGCCTCTTTGCTGCTCC
 AACAAAGATTGGACGTTTTGTGATCGAAGAGGTTCTGGTGGAGTGCATGCAGGAAGACCTGGCAACGGATG
 ACGTATGCTTCTGGACACCTGGGACCAGGTCTTTGTCTGGGTTGGAAAGGATTCTCAAGAAGAAGAAAA
 GACAGAAGCCTTGACTTCTGCTAAGCGGTACATCGAGACGGACCCAGCCAATCGGGATCGGCGGACGCC
 ATCACCGTGGTGAAGCAAGGCTTTGAGCCTCCCTCCTTTGTGGGCTGGTTCCTTGGCTGGATGATGATT
 ACTGGTCTGTGGACCCCTTGGACAGGGCCATGGCTGAGCTGGCTGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC234803 representing NM_001258030
Red=Cloning site Green=Tags(s)

MPLCTPNMVMVEHPEFLKAGKEPLQIWRVEKFDLVPVPTNLVYGDFFTGDAYVILKTVQLRNGNLQYDLH
 YWLGNECSQDESAAAAIFTVQLDDYLNGRAVQHREVQGFESATFLGYFKSGLKYYKGGVASGFKHVVPNE
 VVVQRLFQVKGRVVRATEVPVSWESFNNGDCFILDGNNIHQWCGSNSNRYERLKATQVSKGIRDNERS
 GRARVHVSEEGTEPEAMLQVLGPKPALPAGTEDTAKEDAANRKLAKLYKVSNGAGTMSVSLVADENPFAQ
 GALKSEDCFILDHGKDGKIFVWKGKQANTEERKAALKTASDFITKMDYPKQTQVSVLPEGGETPLFKQFF
 KNWRDPDQTDGLGLSYLSSHIANVERVPFDAATLHTSTAMAAQHGMDDDGTKQKQIWRIEGSKNVPVDP
 TYGQFYGGDSYIILYNYRHGGRQGIINWQGAQSTQDEVAASAILTAQLDEELGGTPVQSRVVQKKEPA
 HLMSLFGGKPMIYKGGTSREGGQTAPASTRLFQVRANSAGATRAVEVLPKAGALNSNDAFVLTPTSAAY
 LWVGTGASEAEKGAQELLRVLRAQPVQVAEGSEPDGFWEALGGKAAVRTSPRLKDKKMDAHPPLFACS
 NKIGRFVIEEVPGELMQEDLATDDVMLLDTWDQVFWVVGKDSQEEEEKTEALTSAKRYIETDPANRDRRT
 ITVVKQGFEPSPFVGWFLGWDDDYWSVDPLDRAMAELAA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001258030

ORF Size: 2217 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_001258030.2](#)

RefSeq Size: 2656 bp

RefSeq ORF: 2220 bp

Locus ID: 2934

UniProt ID: [P06396](#)

Cytogenetics: 9q33.2

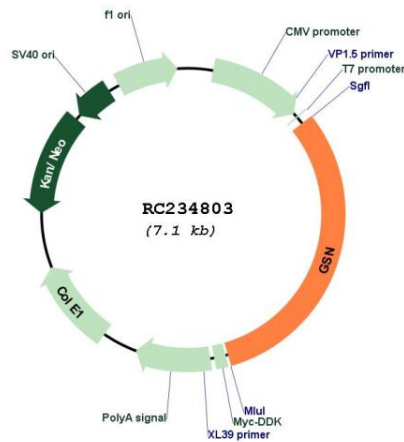
Protein Families: Druggable Genome, Secreted Protein

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

MW: 81.9 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 RC234803