

Product datasheet for **RG234803**

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:	TurboGFP
Symbol:	Gelsolin
Synonyms:	ADF; AGEL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234803 representing NM_001258030
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCACTGTGTACACCCAACAGCATGGTGGTGGAAACACCCCGAGTTCCTCAAGGCAGGGAAGGAGCCTG
 GCCTGCAGATCTGGCGTGTGGAGAAGTTCGATCTGGTGCCGTGCCACCAACCTTTATGGAGACTTCTT
 CACGGGGACGCCTACGTCATCCTGAAGACAGTGCAGCTGAGGAACGAAATCTGCAGTATGACCTCCAC
 TACTGGCTGGCAATGAGTGCAGCCAGGATGAGAGCGGGCGGCCGCATCTTTACCGTGCAGCTGGATG
 ACTACCTGAACGGCCGGCCGTGCAGCACCGTGGAGTCCAGGGCTTCGAGTCGGCCACCTTCTAGGCTA
 CTTCAAGTCTGGCCTGAAGTACAAGAAAGGAGGTGTGGCATCAGGATTCAAGCACGTGGTACCCAACGAG
 GTGGTGGTGCAGAGACTTCCAGGTCAAAGGGCGCGTGTGGTCCGTGCCACCGAGGTACCTGTGTCT
 GGGAGAGCTTCAACAATGGCGACTGCTTATCCTGGACCTGGGCAACAACATCCACCAGTGGTGTGGTTC
 CAACAGCAATCGGTATGAAAGACTGAAGGCCACACAGGTGTCCAAGGGCATCCGGGACAACGAGCGGAGT
 GGCCGGGGCCGAGTGCAGGTGTCTGAGGAGGGCACTGAGCCCAGGGCGATGCTCCAGGTGCTGGGCCCA
 AGCCGGCTCTGCCTGCAGGTACCGAGGACACCGCAAGGAGGATGCGGCCAACCGCAAGCTGGCCAACT
 CTAACAAGTCTCCAATGGTGCAGGGACCATGTCCGTCTCCCTCGTGGTGGTATGAGAACCCCTTCGCCAG
 GGGGCCCTGAAGTCAGAGGACTGCTTATCCTGGACCACGGCAAAGATGGGAAAACTTTGTCTGAAAAG
 GCAAGCAGGCAACACGGAGGAGAGGAAGGCTGCCCTCAAACAGCCTCTGACTTCATCACCAGATGGA
 CTACCCCAAGCAGACTCAGGTCTCGTCTTCTGAGGGCGGTGAGACCCCACTGTTCAAGCAGTCTTTC
 AAGAACTGGCGGGACCCAGACCAGACAGATGGCCTGGCTTGTCTACCTTCCAGCCATATCGCCAACG
 TGGAGCGGGTCCCTTCGACGCCACCCTGCACACCTCCACTGCCATGGCCGCCACGACGCGCATGGA
 TGACGATGGCACAGGCCAGAAACAGATCTGGAGAATCGAAGGTTCCAACAAGGTGCCCGTGGACCTGCC
 ACATATGGACAGTTCTATGGAGGCGACAGCTACATCATTCTGTACAACCTACCGCCATGGTGGCCCGCAGG
 GGCAGATAATCTATAACTGGCAGGGTGCCAGTCTACCCAGGATGAGGTGCTGCATCTGCCATCTGAC
 TGCTCAGCTGGATGAGGAGCTGGGAGGTACCCCTGTCCAGAGCCGTGTGGTCCAAGGCAAGGAGCCCGCC
 CACCTCATGAGCCTGTTTGGTGGGAAGCCATGATCATCTACAAGGGCGGCACCTCCCGGAGGGCGGGC
 AGACAGCCCTGCCAGCACCCGCTCTTCCAGGTCCGCGCCAACAGCGCTGGAGCCACCCGGGCTGTTGA
 GGTATTGCCTAAGGCTGGTGCAGTGAACCCAACGATGCCTTTGTCTGAAAACCCCTCAGCCGCTAC
 CTGTGGGTGGGTACAGGAGCCAGCGAGGCAGAGAAGACGGGGGCCAGGAGCTGCTCAGGCTGCTGCGGG
 CCCAACCTGTGCAGGTGGCAGAAGGCAGCGAGCCAGATGGCTTCTGGGAGGCCCTGGGCGGGAAGGCTGC
 CTACCGCACATCCCACGGCTGAAGGACAAGAAGATGGATGCCCATCCTCCTCGCCTCTTTGCTGCTCC
 AACAAAGATTGGACGTTTTGTGATCGAAGAGGTTCTGGTGGAGTGCATGCAGGAAGACCTGGCAACGGATG
 ACGTATGCTTCTGGACACCTGGGACCAGGTCTTTGTCTGGGTTGGAAAGGATTCTCAAGAAGAAGAAAA
 GACAGAAGCCTTGACTTCTGCTAAGCGGTACATCGAGACGGACCCAGCCAATCGGGATCGGCGGACGCC
 ATCACCGTGGTGAAGCAAGGCTTTGAGCCTCCCTCCTTTGTGGGCTGGTTCCTTGGCTGGGATGATGATT
 ACTGGTCTGTGGACCCCTTGGACAGGGCCATGGCTGAGCTGGCTGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG234803 representing NM_001258030
 Red=Cloning site Green=Tags(s)

MPLCTPNMVMVEHPEFLKAGKEPLQIWRVEKFDLVPVPTNLYGDFFTGDAYVILKTVQLRNGNLQYDLH
 YWLGNECSQDESAAAAIFTVQLDDYLNGRAVQHREVQGFESATFLGYFKSGLKYYKGGVASGFKHVVPNE
 VVVQRLFQVKGRVVRATEVPVSWESFNNGDCFILDGNNIHQWCGSNSNRYERLKAQVSKGIRDNERS
 GRARVHVSEEGTEPEAMLQVLGPKPALPAGTEDTAKEDAANRKLAKLYKVSNGAGTMSVSLVADENPFAQ
 GALKSEDCFILDHGKDGKIFVWKGKQANTEERKAALKTASDFITKMDYPKQTQVSVLPEGGETPLFKQFF
 KNWRDPDQTDGLGLSYLSSHIANVERVPFDAATLHTSTAMAAQHGMDDDGTTGQKQIWRIEGSKNVPVDP
 TYGQFYGGDSYIILYNYRHGGRQGIINWQGAQSTQDEVAASAILTAQLDEELGGTPVQSRVVQKKEPA
 HLMSLFGGKPMIYKGGTSREGGQTAPASTRLFQVRANSAGATRAVEVLPKAGALNSNDAFVLKTPSAAY
 LWVGTGASEAEKGAQELLRVLRAQPVQVAEGSEPDGFWEALGGKAAVRTSPRLKDKKMDAHPRLFACS
 NKIGRFVIEEVPGELMQEDLATDDVMLLDTWDQVFWVVGKDSQEEEEKTEALTSAKRYIETDPANRDRTP
 ITVVKQGFEPSPFVGWFLGWDDDYWSVDPLDRAMAELAA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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](#)

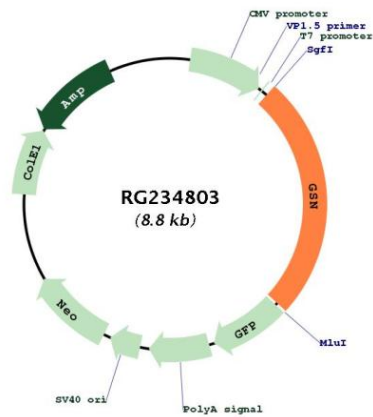
Cytogenetics: 9q33.2

Protein Families: Druggable Genome, Secreted Protein

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

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 RG234803