

Product datasheet for **RG234823**

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:	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:

>RG234823 representing NM_001258029
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGAGGAAGAAGCCCTCAGGGCAATTCTGACCCATGGCCCAACAGCATGGTGGTGAACACCCCG
 AGTTCCTCAAGGCAGGAAGGAGCCTGGCCTGCAGATCTGGCGTGTGGAGAAGTTCGATCTGGTGCCCGT
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 AACGAAATCTGCAGTATGACCTCCACTACTGGCTGGCAATGAGTGCAGCCAGGATGAGAGCGGGGCGG
 CCGCCATCTTTACCGTGCAGCTGGATGACTACCTGAACGGCCGGGCCGTGCAGCACCGTGAAGTCCAGGG
 CTTGAGTCGGCCACCTTCTAGGCTACTTCAAGTCTGGCCTGAAGTACAAGAAAGGAGGTGTGGCATCA
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 CAACAACATCCACAGTGGTGTGGTCCAAACAGCAATCGGTATGAAAGACTGAAGGCCACACAGGTGCC
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 AGGCGATGCTCCAGGTGCTGGGCCCAAGCCGGCTCTGCCTGCAGGTACCGAGGACACCGCCAAGGAGGA
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 GCTGGTTCCTTGGCTGGGATGATGATTACTGGTCTGTGGACCCCTTGGACAGGGCCATGGCTGAGCTGGC
 TGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG234823 representing NM_001258029
Red=Cloning site Green=Tags(s)

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MAEEEALRGNSDPWPNSMVVEHPEFLKAGKEPGLQIWRVEKFDLVPVPTNLYGDFFTGDAYVILKTVQLR
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GFKHVVVNEVVQRLFQVKGRRVVRATEVPVSWESFNNGDCFILDLGNNIHQWCGSNSNRYERLKATQVS
KGIRDNERSGRARVHVSEEGTEPEAMLQVLGPKPALPAGTEDTAKEDAANRKLAKLYKVSNGAGTMSVSL
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VLKTPSAAYLWVGTAASEAEKTAQELLRVLRAPVQVAEGSEPDGFWEALGGKAAVRTSPRLKDKKMDA
HPPRLFACSNKIGRFVIEEVPGELMQEDLATDDVMLLDTWDQVFVWVGKDSQEEKEALTSAKRYIETD
PANRDRRTPITVVKQGFEPSPFVGWFLGWDDDYWSVDPLDRAMAELAA
    
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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](#)

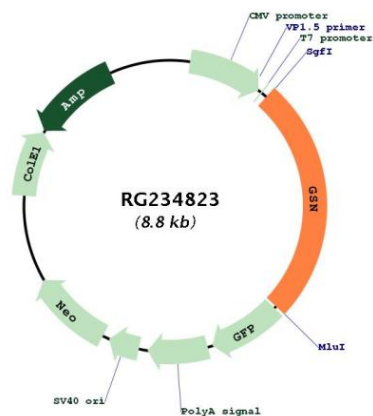
Cytogenetics: 9q33.2

Protein Families: Druggable Genome, Secreted Protein

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

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 RG234823