

Product datasheet for **RG214871**

Gelsolin (GSN) (NM_000177) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gelsolin (GSN) (NM_000177) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RG214871 representing NM_000177
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTCCGACCGCCCCGCGCCCGCTGCTTTGCGCGTGTCCCTGGCGCTGTGCGCGTGTGCTGTC
 CCGTCCGCGCGGCCACTGCGTCGCGGGGGCGTCCCAGGCGGGGCGCCCAAGGGCGGGTGCCCGAGGC
 GCGGCCAACAGCATGGTGGTGAACACCCGAGTTCCTCAAGGCAGGAAGGAGCCTGGCCTGCAGATC
 TGGCGTGTGGAGAAGTTCGATCTGGTGCCTGCCACCAACCTTTATGGAGACTTCTCACGGGCGACG
 CCTACGTCATCCTGAAGACAGTGCAGCTGAGGAACGAAATCTGCAGTATGACCTCCACTACTGGCTGGG
 CAATGAGTGCAGCCAGGATGAGAGCGGGGCGGCCCATCTTTACCGTGCAGCTGGATGACTACCTGAAC
 GGCCGGGCGTGCAGCACCGTGAAGTCCAGGGCTTCGAGTCGGCCACCTTCTAGGCTACTTCAAGTCTG
 GCCTGAAGTACAAGAAAGGAGGTGTGGCATCAGGATCAAGCACGTGGTACCCAACGAGGTGGTGGTGA
 GAGACTTTCAGGTCAAAGGGCGCGTGTGGTCCGTGCCACCGAGGTACCTGTGTCCTGGGAGAGCTTC
 AACAAATGGCGACTGCTTATCCTGGACCTGGGCAACAACATCCACCAGTGGTGTGGTTCCAACAGCAATC
 GGTATGAAAGACTGAAGGCCACACAGGTGTCCAAGGGCATCCGGGACAACGAGCGGAGTGGCCGGGCCCCG
 AGTGCACGTGTCTGAGGAGGGCACTGAGCCGAGGCGATGCTCCAGGTGCTGGGCCCAAGCCGGCTCTG
 CCTGCAGGTACCGAGGACACCGCAAGGAGGATGCGGCCAACCGCAAGCTGGCCAAGCTCTACAAGTCT
 CCAATGGTGCAGGGACCATGTCCGTCTCCCTCGTGGTGTGAGAACCCCTTCGCCAGGGGGCCCTGAA
 GTCAGAGGACTGCTTTCCTGGACCACGGCAAAGATGGGAAAATCTTTGTCTGGAAAGGCAAGCAGGCA
 AACACGGAGGAGGAAGGCTGCCCTCAAACAGCCTCTGACTTCATACCAAGATGGACTACCCCAAGC
 AGACTCAGGTCTCGTCTTCTGAGGGCGGTGAGACCCCACTGTTCAAGCAGTCTTCAAGAACCTGGCG
 GGACCCAGACCAGACAGATGGCCTGGGCTTGCCTACCTTTCCAGCCATATCGCCAACGTGGAGCGGGTG
 CCCTTCGACGCCGCCACCTGCACACCTCCACTGCCATGGCCGCCAGCAGCGCATGGATGACGATGGCA
 CAGGCCAGAAACAGATCTGGAGAATCGAAGGTTCCAACAAGGTGCCCGTGGACCTGCCACATATGGACA
 GTTCTATGGAGGCGACAGCTACATCATTCTGTACAACCTACCGCCATGGTGGCCGCCAGGGGCGAGATAATC
 TATAACTGGCAGGGTGCCAGTCTACCCAGGATGAGGTCGCTGCATCTGCCATCTGACTGCTCAGCTGG
 ATGAGGAGCTGGGAGGTACCCCTGTCCAGAGCCGTGGTCCAAGGCAAGGAGCCCGCCACCTCATGAG
 CCTGTTTGGTGGGAAGCCATGATCATCTACAAGGGCGGCACCTCCCGAGGGGCGGCAGACAGCCCT
 GCCAGCACCCGCCTTCCAGGTCCGCGCCAACAGCGCTGGAGCCACCCGGGCTGTTGAGGTATTGCCTA
 AGGCTGGTGCAGTGAACCTCAACGATGCCTTTGTTCTGAAAACCCCTCAGCCGCCTACCTGTGGGTGGG
 TACAGGAGCCAGCGAGGAGAGACGAGGCGGGGCCAGGAGCTGCTCAGGGTGTGCGGGGCCAACCTGTG
 CAGGTGGCAGAAGGCAGCGAGCCAGATGGCTTCTGGGAGGCCCTGGGCGGGAAGGCTGCCTACCGCACAT
 CCCACGGCTGAAGGACAAGAAGATGGATGCCATCCTCCTCGCCTTTTGCCTGCTCCAACAAGATTGG
 ACGTTTTGTGATCGAAGAGGTTCTGGTGGTGCAGGACCTGGCAACGGATGACGTCATGCTT
 CTGGACACCTGGGACCAGGTCTTTGTCTGGGTTGGAAAGGATTCTCAAGAAGAAGAAAAGACAGAAGCCT
 TGACTTCTGCTAAGCGGTACATCGAGACGACCCAGCCAATCGGGATCGGCGGACGCCATCACCCGTGGT
 GAAGCAAGGCTTTGAGCCTCCCTCCTTTGTGGGCTGGTTCCTTGGCTGGGATGATGATTACTGGTCTGTG
 GACCCCTTGGACAGGGCCATGGCTGAGCTGGCTGCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

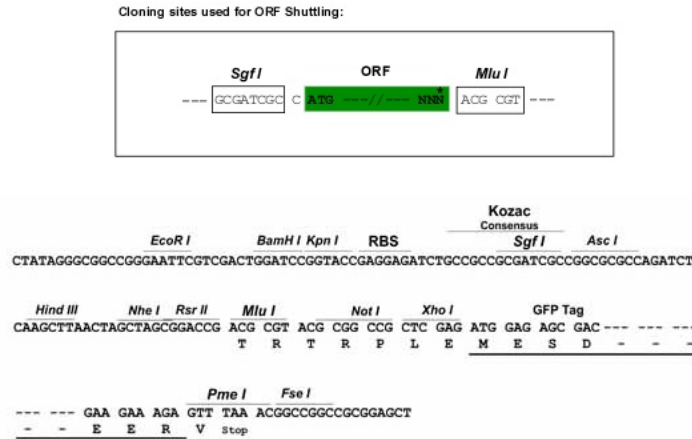
Protein Sequence: >RG214871 representing NM_000177
 Red=Cloning site Green=Tags(s)

MAPHRPAPALLCALSLALCALSLPVRAATASRGASQAGAPQGRVPEARPNSMVVEHPEFLKAGKEPGLQI
 WRVEKFDLVPVPTNLVYDFFFTGDAYVILKTVQLRNGNLQYDLHYWLGNESQDESGAAAIFTVQLDDYLN
 GRAVQHREVQGFESATFLGYFKSGLKYKKGGVASGFKHVVPNEVVVQRLFQVKGRRVVRATEVPSWESF
 NNGDCFILDGLGNNIHQWCGSNSNRYERLKAQVSKGIRDNERSGRARVHVSEEGTEPEAMLQVLGPKPAL
 PAGTEDTAKEDAANRKLAKLYKVSNGAGTMSVSLVADENPFAQGALKSEDCFILDHGKDGKIFVWKGKQA
 NTEERKAALKTASDFITKMDYPKQTQVSVLPEGGETPLFKQFFKNWRDPDQTDGLGLSYLSSHIANVERV
 PFDAATLHTSTAMAAQHGMDDDDGTGQKQIWRIEGSNKVPVDPATYQFYGGDSYIILYNYRHGGRQGQII
 YNWQGAQSTQDEVAASAILTAQLDEELGGTPVQSRVVQKKEPAHMLSLFGGKPMI IYKGGTSREGGQTAP
 ASTRLFQVRANSAGATRAVELPKAGALNSNDAFVLKTPSAAYLWVG TGASEAEKTAQELLRLVRAQPV
 QVAEGSEPDGFWEALGGKAAVRTSPRLKDKKMDAHPRLFACSNKIGRFVIEEVPGELMQEDLATDDVML
 LDTWDQVFVWVGKDSQEEKTEALTSAKRYIETDPANRDRRTPITVVKQGFEPSPFVGWFLGWDDDYWSV
 DPLDRAMAELAA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

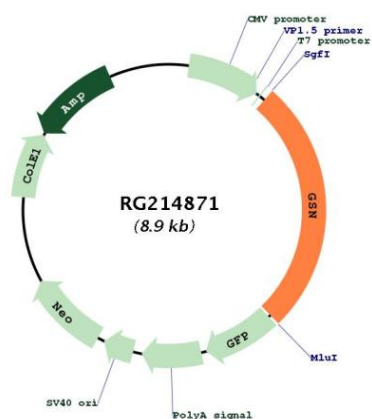


ACCN: NM_000177

ORF Size: 2346 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
Reconstitution Method:	<ol style="list-style-type: none">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_000177.5
RefSeq Size:	2705 bp
RefSeq ORF:	2349 bp
Locus ID:	2934
UniProt ID:	P06396
Cytogenetics:	9q33.2
Domains:	GEL, Gelsolin
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	Fc gamma R-mediated phagocytosis, Regulation of actin cytoskeleton
Gene Summary:	<p>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]</p>

Product images:



Circular map for RG214871