

## Product datasheet for **RG226120**

### Gelsolin (GSN) (NM\_001127664) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gelsolin (GSN) (NM_001127664) 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:

>RG226120 representing NM\_001127664  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTCCGACCGCCCCGCGCCCGCTGCTTTGCGCGTGTCCCTGGCGCTGTGCGCGTGTGCTGTC  
 CCGTCCGCGCGGCCACTGCGTCGCGGGGGCGTCCCAGGCGGGGCGCCCAAGGGCGGGTGCCCGAGGC  
 GCGGCCAACAGCATGGTGGTGAACACCCGAGTTCCTCAAGGCAGGGAAGGAGCTGGCTGCAGATC  
 TGGCGTGTGGAGAAGTTCGATCTGGTGCCTGCCACCAACCTTTATGGAGACTTCTCACGGGCGACG  
 CCTACGTCATCCTGAAGACAGTGCAGCTGAGGAACGGAATCTGCAGTATGACCTCCACTACTGGCTGGG  
 CAATGAGTGCAGCCAGGATGAGAGCGGGGCGGCCCATCTTTACCGTGCAGCTGGATGACTACCTGAAC  
 GGCCGGGCGTGCAGCACCGTGAAGTCCAGGGCTTCGAGTCGGCCACCTTCTAGGCTACTTCAAGTCTG  
 GCCTGAAGTACAAGAAAGGAGGTGTGGCATCAGGATCAAGCACGTGGTACCCAACGAGGTGGTGGTGA  
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 AACAAATGGCGACTGCTTCATCCTGGACCTGGGCAACAACATCCACCAGTGGTGTGGTTCCAACAGCAATC  
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 GTCAGAGGACTGCTTCATCCTGGACCACGGCAAAGATGGGAAAATCTTTGTCTGGAAAGGCAAGCAGGCA  
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 GGACCCAGACCAGACAGATGGCCTGGGCTTGCCTACCTTTCCAGCCATATCGCCAACGTGGAGCGGGTG  
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 CAGGCCAGAAACAGATCTGGAGAATCGAAGGTTCCAACAAGGTGCCCGTGGACCTGCCACATATGGACA  
 GTTCTATGGAGGCGACAGCTACATCATTCTGTACAACCTACCGCCATGGTGGCCGCCAGGGGCGAGATAATC  
 TATAACTGGCAGGGTGCCAGTCTACCCAGGATGAGGTCGCTGCATCTGCCATCTGACTGCTCAGCTGG  
 ATGAGGAGCTGGGAGGTACCCCTGTCCAGAGCCGTGGTCCAAGGCAAGGAGCCCGCCACCTCATGAG  
 CCTGTTTGGTGGGAAGCCATGATCATCTACAAGGGCGGCACCTCCCGAGGGCGGGCAGACAGCCCT  
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 AGGCTGGTGCAGTGAACCTCAACGATGCCTTTGTTCTGAAAACCCCTCAGCCGCCTACCTGTGGGTGGG  
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 CTGGACACCTGGGACAGGTCTTTGTCTGGGTTGAAAGGATTCTCAAGAAGAAGAAAAGACAGAAGCCT  
 TGACTTCTGCTAAGCGGTACATCGAGACGGACCCAGCCAATCGGGATCGGCGGACGCCATCACCGTGGT  
 GAAGCAAGGCTTTGAGCCTCCCTCTTTGTGGGCTGGTTCCTTGGCTGGGATGATGATTACTGGTCTGTG  
 GACCCCTTGGACAGGGCCATGGCTGAGCTGGCTGCC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG226120 representing NM\_001127664  
Red=Cloning site Green=Tags(s)

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MAPHRPAPALLCALSLALCALSLPVRAATASRGASQAGAPQGRVPEARPNSMVVEHPEFLKAGKEPGLQI
WRVEKFDLVPVPTNL YGDFFTGDAYVILKTVQLRNGNLQYDLHYWLGNESQDESGAAAIFTVQLDDYLN
GRAVQHREVQGFESATFLGYFKSGLKYKKGVA SGFKHVVPNEVVVQRLFQVKGRRVVRATEVPVSWESF
NNGDCFILD LGNNIHQWCGSNSNRYERLKATQVSKGIRDNERSGRARVHVSEEGTEPEAMLQVLGPKPAL
PAGTEDTAKEDAANRKLAKLYKVSNGAGTMSVSLVADENPFAQGALKSEDCFILDHGKDGKIFVWKGKQA
NTEERKAALKTASDFITKMDYPKQTQVS VLPPEGGETPLFKQFFKNWRDPDQTDGLGLSYLSSHIANVERV
PFDAATLHTSTAMAAQHGMDDDG TGQKQIWRIEGSNKVPVDPATYGFYGGDSYIILYNYRHGGRQGQII
YNWQGAQSTQDEVAASAILTAQLDEELGGTPVQSRVVQKKEPAHLSLFGGKPMI IYKGGTSREGGQTAP
ASTRLFQVRANSAGATRAVELPKAGALNSNDAFVLKTPSAAYLWVG TGASEAEKTAQELLRVLRAQPV
QVAEGSEPDGFWEALGGKAA YRTSPRLKDKKMDAHPRLFACSNKIGRFVIEEVP GELMQEDLATDDVML
LDTWDQVFVWVGKDSQEE EKTEALTSAKRYIETDPANRRRTPITVVKQGFEP SFVGWFLGWDDDYWSV
DPLDRAMAELAA
    
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001127664

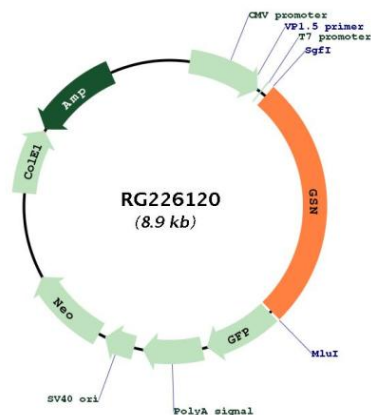
**ORF Size:** 2349 bp

**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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001127664.1</a> , <a href="#">NP_001121136.1</a>
<b>RefSeq Size:</b>	2764 bp
<b>RefSeq ORF:</b>	2196 bp
<b>Locus ID:</b>	2934
<b>UniProt ID:</b>	<a href="#">P06396</a>
<b>Cytogenetics:</b>	9q33.2
<b>Protein Families:</b>	Druggable Genome, Secreted Protein
<b>Protein Pathways:</b>	Fc gamma R-mediated phagocytosis, Regulation of actin cytoskeleton
<b>Gene Summary:</b>	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 RG226120