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Product datasheet for SC332583

Gelsolin (GSN) (NM_001258030) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gelsolin (GSN) (NM_001258030) Human Untagged Clone
Tag:	Tag Free
Symbol:	Gelsolin
Synonyms:	ADF; AGEL
Vector:	pCMV6-Entry (PS100001)

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Fully Sequenced ORF:

>SC332583 representing NM_001258030.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGCCACTGTGTACACCCAACAGCATGGTGGTGGAACACCCCGAGTTCCTCAAGGCAGGGAAGGAGCCT
GGCCTGCAGATCTGGCGTGTGGAGAAGTTCGATCTGGTGCCCGTGCCCACCAACCTTTATGGAGACTTC
TTCACGGGCGACGCCTACGTCATCCTGAAGACAGTGCAGCTGAGGAACGGAAATCTGCAGTATGACCTC
CACTACTGGCTGGGCAATGAGTGCAGCCAGGATGAGAGCGGGGCGGCCGCCATCTTTACCGTGCAGCTG
GATGACTACCTGAACGGCCGGGCCGTGCAGCACCGTGAGGTCCAGGGCTTCGAGTCGGCCACCTTCCTA
GGCTACTTCAAGTCTGGCCTGAAGTACAAGAAAGGAGGTGTGGCATCAGGATTCAAGCACGTGGTACCC
AACGAGGTGGTGGTGCAGAGACTCTTCCAGGTCAAAGGGCGGCGTGTGGTCCGTGCCACCGAGGTACCT
GTGTCCTGGGAGAGCTTCAACAATGGCGACTGCTTCATCCTGGACCTGGGCAACAACATCCACCAGTGG
TGTGGTTCCAACAGCAATCGGTATGAAAGACTGAAGGCCACACAGGTGTCCAAGGGCATCCGGGACAAC
GAGCGGAGTGGCCGGGCCCGAGTGCACGTGTCTGAGGAGGGCACTGAGCCCGAGGCGATGCTCCAGGTG
CTGGGCCCCAAGCCGGCTCTGCCTGCAGGTACCGAGGACACCGCCAAGGAGGATGCGGCCAACCGCAAG
CTGGCCAAGCTCTACAAGGTCTCCAATGGTGCAGGGACCATGTCCGTCTCCCTCGTGGCTGATGAGAAC
CCCTTCGCCCAGGGGGCCCTGAAGTCAGAGGACTGCTTCATCCTGGACCACGGCAAAGATGGGAAAATC
TTTGTCTGGAAAGGCAAGCAGGCAAACACGGAGGAGAGGAAGGCTGCCCTCAAAACAGCCTCTGACTTC
ATCACCAAGATGGACTACCCCAAGCAGACTCAGGTCTCGGTCCTTCCTGAGGGCGGTGAGACCCCACTG
TTCAAGCAGTTCTTCAAGAACTGGCGGGACCCAGACCAGACAGATGGCCTGGGCTTGTCCTACCTTTCC
AGCCATATCGCCAACGTGGAGCGGGTGCCCTTCGACGCCGCCACCCTGCACACCTCCACTGCCATGGCC
GCCCAGCACGGCATGGATGACGATGGCACAGGCCAGAAACAGATCTGGAGAATCGAAGGTTCCAACAAG
GTGCCCGTGGACCCTGCCACATATGGACAGTTCTATGGAGGCGACAGCTACATCATTCTGTACAACTAC
CGCCATGGTGGCCGCCAGGGGCAGATAATCTATAACTGGCAGGGTGCCCAGTCTACCCAGGATGAGGTC
GCTGCATCTGCCATCCTGACTGCTCAGCTGGATGAGGAGCTGGGAGGTACCCCTGTCCAGAGCCGTGTG
GTCCAAGGCAAGGAGCCCGCCCACCTCATGAGCCTGTTTGGTGGGAAGCCCATGATCATCTACAAGGGC
GGCACCTCCCGCGAGGGCGGGCAGACAGCCCCTGCCAGCACCCGCCTCTTCCAGGTCCGCGCCAACAGC
GCTGGAGCCACCCGGGCTGTTGAGGTATTGCCTAAGGCTGGTGCACTGAACTCCAACGATGCCTTTGTT
CTGAAAACCCCCTCAGCCGCCTACCTGTGGGTGGGTACAGGAGCCAGCGAGGCAGAGAAGACGGGGGCC
CAGGAGCTGCTCAGGGTGCTGCGGGCCCAACCTGTGCAGGTGGCAGAAGGCAGCGAGCCAGATGGCTTC
TGGGAGGCCCTGGGCGGGAAGGCTGCCTACCGCACATCCCCACGGCTGAAGGACAAGAAGATGGATGCC
CATCCTCCTCGCCTCTTTGCCTGCTCCAACAAGATTGGACGTTTTGTGATCGAAGAGGTTCCTGGTGAG
CTCATGCAGGAAGACCTGGCAACGGATGACGTCATGCTTCTGGACACCTGGGACCAGGTCTTTGTCTGG
GTTGGAAAGGATTCTCAAGAAGAAGAAAAGACAGAAGCCTTGACTTCTGCTAAGCGGTACATCGAGACG
GACCCAGCCAATCGGGATCGGCGGACGCCCATCACCGTGGTGAAGCAAGGCTTTGAGCCTCCCTCCTTT
GTGGGCTGGTTCCTTGGCTGGGATGATGATTACTGGTCTGTGGACCCCTTGGACAGGGCCATGGCTGAG
CTGGCTGCCTGA

Restriction Sites: SgfI-MluI

ACCN: NM_001258030

Insert Size: 2220 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001258030.1
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:	81.5 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] Transcript Variant: This variant (10) uses an alternate first exon compared to that of variant 1. The resulting isoform (e) has a shorter and distinct N-terminus compared to isoform a.