

Product datasheet for **MC228803**

Gsn (NM_001206368) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gsn (NM_001206368) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gsn
Synonyms:	ADF
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228803 representing NM_001206368
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTGGTGGAGCACCCGAATTCCTGAAGGCAGGAAGGAGCCTGGCCTGCAGATCTGGCGTGTGGAGA
 AGTTTGACCTGGTGCCTGTGCCCCCAACCTCTATGGAGACTTCTCACGGGTGATGCCTATGTCATCCT
 AAAGACTGTGCAGCTGAGGAATGGGAATCTGCAGTATGACCTCCACTATTGGCTGGGCAATGAATGCAGC
 CAGGATGAGAGCGGGGCTGCTGCCATCTTTACTGTGCAACTGGATGACTACCTGAACGGCCGGGCTGTAC
 AGCACCGTGAAGTTCAGGGCTTTGAGTCGTCCACCTTCTCCGGCTACTTCAAGTCTGGACTTAAGTACAA
 GAAAGGAGGTGTGGCATCTGGATTCAAACACGTGGTACCCAATGAGGTGGTCCAGAGGCTCTCCAG
 GTCAAAGGACGCCGTGTAGTCCGTGCTACTGAGGTACCTGTGCTCCTGGGACGTTTCAACAATGGCGACT
 GCTTCATTCTGGACCTGGGAAACAATATCTATCAGTGGTGTGGCTCTGGCAGCAACAATTTGAAAGGCT
 GAAGGCCACACAGGTGTCCAAGGCATCCGGGACAACGAGAGGAGTGGCCGTGCTCAAGTACACGTGCT
 GAAGAGGGAGGAGAGCCAGAAGCCATGCTGCAGGTGCTGGGCCCAAGCCAGCTCTGCCTGAAGGTACCG
 AGGACACAGCCAAGGAAGATGCAGCCAACCGAAGGCTGGCCAAGCTCTACAAGGTCTCCAACGGTGCAGG
 TAGCATGTGAGTCTCCCTAGTGGCTGATGAGAACCCTTCGCCAGGGCGCCCTGAGATCTGAGGACTGC
 TTCATCTGGACCATGGCAGAGATGGGAAAATCTTTGTTGGAAAGGCAAGCAGGCCAACATGGAGGAGC
 GGAAGGCTGCCCTCAAAACAGCCTCTGACTTCACTCCAAGATGCAGTACCCAGGCAGACCCAGGTTTC
 AGTTCTCCAGAGGGCGGTGAGACCCCTCTCTTAAGCAGTCTTCAAGAACTGGCGGGACCCAGACCAG
 ACAGACGGCCCCGGCCTGGGCTACCTCTCCAGCCACATTGCCAACGTGGAGCGGTACCTTTCGATGCTG
 CTACGCTGCACACCTCCACCCGATGGCCGCTCAGCACGGCATGGATGATGATGGAATGGCCAGAACA
 GATCTGGAGAATTGAAGGTTCCAACAAGGTGCCAGTGGACCCTGCCACATACGGGCAGTTCTATGGAGGC
 GACAGCTACATCATTCTGTACAACCTACCGCCACGGTGGCCGCCAGGGACAGATCATCTACAACCTGGCAGG
 GTGCCAGTCTACCCAGGATGAGGTTGCTGCTTCTGCCATCCTGACTGCCAGCTGGATGAGGAGCTGGG
 AGGAACTCCTGTCCAGAGCCGAGTGGTCCAAGGCAAAGAGCCTGCACACCTCATGAGCTTGTGGCGGG
 AAGCCCATGATCATCTACAAGGGTGGCACCTCCCGTGATGGTGGGACAGCAGCTCCTGCCAGTATCCGCC
 TCTTCCAAGTGCAGCCAGCAGCTCTGGAGCCACCAGGGCTGTGGAGGTGATGCCTAAGTCTGGTGTCT
 GAACTCCAACGATGCCTTTGTGCTGAAAACCCCTCCGCTGCCTACCTGTGGGTGGGCGCAGGAGCCAGT
 GAGGCGGAGAAGACCGGCCCCAGGAGCTTCTGAAGGTGCTTCGGTCCCAGCATGTGCAGGTGGAAGAAG
 GCAGTGAGCCAGATGCCTTCTGGGAGGCTCTGGGCGGGAAGACTGCCTACCGCACATCCCCAGGCTTAA
 GGACAAGAAGATGGATGCCATCCTCCTCGACTCTTTGCCTGCTCCAACAGGATCGGACGCTTTGTGATC
 GAAGAGGTTCTGGCGAGCTTATGCAGGAAGACCTGGCTACTGATGACGTGATGCTCCTGGACACCTGGG
 ACCAGGCTTTGTCTGGGTTGGAAAAGACTCCCAGGAAGAGGAAAAGACGGAAAGCCTTGACTTCTGCTAA
 GCGGTACATCGAGACAGATCCAGCAAATCGGGACAGGCGGACCCCATCACAGTCGTTAGGCAGGGCTTT
 GAGCCTCCTTCTTCGTGGGCTGGTTCCTCGGCTGGGATGACAACCTACTGGTCGGTGGATCCTTTGGACC
 GGGCCTTGCTGAGCTGGCTGCC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001206368
Insert Size: 2196 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).

OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<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:	<u>NM_001206368.1</u> , <u>NP_001193297.1</u>
RefSeq Size:	2556 bp
RefSeq ORF:	2196 bp
Locus ID:	227753
Cytogenetics:	2 23.5 cM
Gene Summary:	<p>Calcium-regulated, actin-modulating protein that binds to the plus (or barbed) ends of actin monomers or filaments, preventing monomer exchange (end-blocking or capping). It can promote the assembly of monomers into filaments (nucleation) as well as sever filaments already formed. Plays a role in ciliogenesis.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR, lacks a portion of the 5' coding region and initiates translation at a downstream, in-frame start codon, compared to variant 1. The encoded isoform (2) has a shorter N-terminus, compared to isoform 1. Variants 2, 3 and 4 encode the same isoform (2). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>