

Product datasheet for **MR231013**

Gsn (NM_001206367) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gsn (NM_001206367) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gsn
Synonyms:	ADF
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide
Sequence:

>MR231013 representing NM_001206367
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGTGGTGGAGCACCCGAATTCCTGAAGGCAGGAAGGAGCCTGGCCTGCAGATCTGGCGTGTGGAGA
AGTTTGACCTGGTGCCTGTGCCCCCAACCTCTATGGAGACTTCTCACGGGTGATGCCTATGTCATCCT
AAAGACTGTGCAGCTGAGGAATGGGAATCTGCAGTATGACCTCCACTATTGGCTGGGCAATGAATGCAGC
CAGGATGAGAGCGGGGCTGCTGCCATCTTTACTGTGCAACTGGATGACTACCTGAACGGCCGGGCTGTAC
AGCACCGTGAGGTTCAAGGCTTTGAGTCGTCCACCTTCTCCGGCTACTTCAAGTCTGGACTTAAGTACAA
GAAAGGAGGTGTGGCATCTGGATTCAAACACGTGGTACCCAATGAGGTGGTGGTCCAGAGGCTCTCCAG
GTCAAAGGACGCCGTGTAGTCCGTGCTACTGAGGTACCTGTGCTCGGGACGTTTCAACAATGGCGACT
GCTTCATTCTGGACCTGGGAAACAATATCTATCAGTGGTGTGGCTCTGGCAGCAACAATTTGAAAGGCT
GAAGGCCACACAGGTGTCCAAGGCATCCGGGACAACGAGAGGAGTGGCCGTGCTCAAGTACACGTGCT
GAAGAGGGAGGAGAGCCAGAAGCCATGCTGCAGGTGCTGGGCCCAAGCCAGCTCTGCCTGAAGGTACCG
AGGACACAGCCAAGGAAGATGCAGCCAACCGAAGGCTGGCCAAGCTCTACAAGGTCTCAACCGTGCAGG
TAGCATGTGAGTCTCCCTAGTGGCTGATGAGAACCCTTCGCCAGGGCGCCCTGAGATCTGAGGACTGC
TTCATCTGGACCATGGCAGAGATGGGAAAATCTTTGTTGGAAAGGCAAGCAGGCCAACATGGAGGAGC
GGAAGGCTGCCCTCAAAACAGCCTCTGACTTCACTCCAAGATGCAGTACCCAGGCAGACCCAGGTTTC
AGTTCTCCAGAGGGCGGTGAGACCCCTCTCTTAAGCAGTCTTCAAGAACTGGCGGGACCCAGACCAG
ACAGACGGCCCCGGCTGGGCTACCTCTCCAGCCACATTGCCAACGTGGAGCGGTACCTTTCGATGCTG
CTACGCTGCACACCTCCACCGCCATGGCCGCTCAGCACGGCATGGATGATGATGGAACCTGGCCAGAAACA
GATCTGGAGAATTGAAGGTTCCAACAAGGTGCCAGTGGACCCTGCCACATACGGGCAGTTCTATGGAGGC
GACAGCTACATCATTCTGTACAACCTACCGCCACGGTGGCCGCCAGGGACAGATCATCTACAACCTGGCAGG
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AGGAACTCTGTCCAGAGCCGAGTGGTCCAAGGCAAAGAGCCTGCACACCTCATGAGCTTGTGGCGGG
AAGCCCATGATCATCTACAAGGGTGGCACCTCCCGTGATGGTGGGACAGACAGCTCCTGCCAGTATCCGCC
TCTTCCAAGTGCAGCCAGCAGCTCTGGAGCCACCAGGGCTGTGGAGGTGATGCCTAAGTCTGGTGTCT
GAACTCCAACGATGCCTTTGTGCTGAAAACCCCTCCGCTGCCTACCTGTGGGTGGGCGCAGGAGCCAGT
GAGGCGGAGAAGACCGGGCCAGGAGCTTCTGAAGGTGCTTCGGTCCCAGCATGTGCAGGTGGAAGAAG
GCAGTGAGCCAGATGCCTTCTGGGAGGCTCTGGGCGGGAAGACTGCCTACCGCACATCCCCAGGCTTAA
GGACAAGAAGATGGATGCCATCCTCCTCGACTTTTGCCTGCTCCAACAGGATCGGACGCTTTGTGATC
GAAGAGGTTCTGGCGAGCTTATGCAGGAAGACCTGGCTACTGATGACGTGATGCTCCTGGACACCTGGG
ACCAGGCTTTGTCTGGGTTGGAAAAGACTCCCAGGAAGAGGAAAAGACGGAAGCCTTGACTTCTGCTAA
GCGGTACATCGAGACAGATCCAGCAAATCGGGACAGGCGGACCCCATCACAGTCGTTAGGCAGGCTTT
GAGCCTCCTTCTTCGTGGGCTGGTTCCTCGGCTGGGATGACAACCTACTGGTCCGTGGATCCTTTGGACC
GGCCTTGGCTGAGCTGGCTGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR231013 representing NM_001206367
 Red=Cloning site Green=Tags(s)

MVVEHPEFLKAGKEPGLQIWRVEKFDLVPVPPNLYGDFFTGDAYVILKTVQLRNGNLQYDLHYWLGNECS
 QDESGAAAIFTVQLDDYLNGRAVQHREYVQGFESSTFSGYFKSGLKYKGGVSGFKHVPNEVVVQRLFQ
 VKGRRVVRATEVPVSWDSFNNGDCFILDLGNNIYQWCGSGSNKFERLKATQVSKGIRDNERSGRAQVHVS
 EEGGEPEAMLQVLGPKPALPEGTEDTAKEDAANRRRLAKLYKVSNGAGSMSVSLVADENPFAQGALRSEDC
 FILDHGRDGIKIFVWKGKQANMEERKAALKTASDFISKMQYPRQTQVSVLPEGGETPLFKQFFKNWRDPDQ
 TDGPGLGYLSSHIANVERVPFDAATLHTSTAMAAQHGMDDDGTDGQKIWRIEGSNKVPVDPATYQGQFYGG
 DSYIILYNYRHGGRQGIYIYNWQGAQSTQDEVAASAILT AQLDEELGGTPVQSRVVQKPEAHLMSLFGG
 KPMIIYKGGTSRDGGQTAPASIRLFQVRASSSGATRAVEVMPKSGALNSNDAFVLKTPSAAYLWVGAGAS
 EAEKTGAQELLKVLRSQHVVQVEEGSEPDAFWEALGGKTAYRTSPRLKDKKMDAHPPLRFACSNRIGRFVI
 EEVPGELMQEDLATDDVMLLDTWDQVFVWVGKDSQEEKTEALTSAKRYIETDPANRDRRTPITVVRQGF
 EPPSFGWFLGWDDNYWSDPLDRALAEALAA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

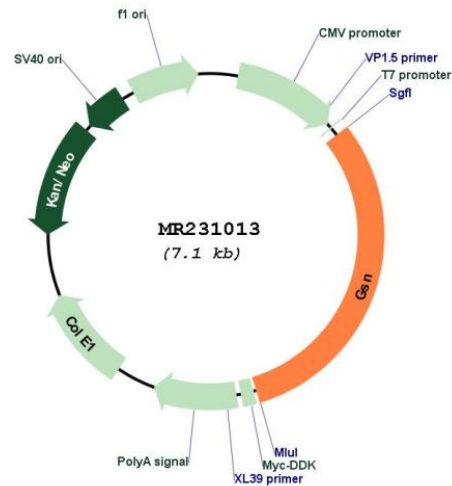
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001206367

ORF Size: 2193 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_001206367.1](#), [NP_001193296.1](#)

RefSeq Size: 2640 bp

RefSeq ORF: 2196 bp

Locus ID: 227753

Cytogenetics: 2 23.5 cM

MW: 81.2 kDa

Gene Summary: 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]