

## Product datasheet for **MR231014**

### Gsn (NM\_001206368) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gsn (NM_001206368) 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:

>MR231014 representing NM\_001206368  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGGTGGTGGAGCACCCGAATTCCTGAAGGCAGGAAGGAGCCTGGCCTGCAGATCTGGCGTGTGGAGA  
AGTTTGACCTGGTGCCTGTGCCCCCAACCTCTATGGAGACTTCTCACGGGTGATGCCTATGTCATCCT  
AAAGACTGTGCAGCTGAGGAATGGGAATCTGCAGTATGACCTCCACTATTGGCTGGGCAATGAATGCAGC  
CAGGATGAGAGCGGGGCTGCTGCCATCTTTACTGTGCAACTGGATGACTACCTGAACGGCCGGGCTGTAC  
AGCACCGTGAGGTTCAAGGCTTTGAGTCGTCCACCTTCTCCGGCTACTTCAAGTCTGGACTTAAGTACAA  
GAAAGGAGGTGTGGCATCTGGATTCAAACACGTGGTACCCAATGAGGTGGTGGTCCAGAGGCTCTCCAG  
GTCAAAGGACGCCGTGTAGTCCGTGCTACTGAGGTACCTGTGCTCTGGGACGTTTCAACAATGGCGACT  
GCTTCATTCTGGACCTGGGAAACAATATCTATCAGTGGTGTGGCTCTGGCAGCAACAATTTGAAAGGCT  
GAAGGCCACACAGGTGTCCAAGGCCATCCGGGACAACGAGAGGAGTGGCCGTGCTCAAGTACACGTGCT  
GAAGAGGGAGGAGAGCCAGAAGCCATGTGCAGGTGCTGGGCCCAAGCCAGCTCTGCCTGAAGGTACCG  
AGGACACAGCCAAGGAAGATGCAGCCAACCGAAGGCTGGCCAAGCTCTACAAGGTCTCCAACGGTGCAGG  
TAGCATGTGAGTCTCCCTAGTGGCTGATGAGAACCCTTCCGCCAGGGCGCCCTGAGATCTGAGGACTGC  
TTCATCTGGACCATGGCAGAGATGGGAAAATCTTTGTTGGAAAGGCAAGCAGGCCAACATGGAGGAGC  
GGAAGGCTGCCCTCAAAACAGCCTCTGACTTCACTCCAAGATGCAGTACCCAGGCAGACCCAGGTTTC  
AGTTCTCCAGAGGGCGGTGAGACCCCTCTCTTAAGCAGTCTTCAAGAACTGGCGGGACCCAGACCAG  
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CTACGCTGCACACCTCCACCGCCATGGCCGCTCAGCACGGCATGGATGATGATGGAACCTGGCCAGAAACA  
GATCTGGAGAATTGAAGGTTCCAACAAGGTGCCAGTGGACCCTGCCACATACGGGACGTTCTATGGAGGC  
GACAGCTACATCATTCTGTACAACCTACCGCCACGGTGGCCGCCAGGGACAGATCATCTACAACCTGGCAGG  
GTGCCAGTCTACCCAGGATGAGGTTGCTGCTTCTGCCATCCTGACTGCCAGCTGGATGAGGAGCTGGG  
AGGAACCTCTGTCCAGAGCCGAGTGGTCCAAGGCAAAGAGCCTGCACACCTCATGAGCTTGTGGCGGG  
AAGCCCATGATCATCTACAAGGGTGGCACCTCCCGTGATGGTGGGACAGACAGCTCCTGCCAGTATCCGCC  
TCTTCCAAGTGCAGCCAGCAGCTCTGGAGCCACCAGGGCTGTGGAGGTGATGCCTAAGTCTGGTGTCT  
GAACTCCAACGATGCCTTTGTGCTGAAAACCCCTCCGCTGCCTACCTGTGGGTGGGCGCAGGAGCCAGT  
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GCAGTGAGCCAGATGCCTTCTGGGAGGCTCTGGGCGGGAAGACTGCCTACCGCACATCCCCAGGCTTAA  
GGACAAGAAGATGGATGCCATCCTCCTCGACTTTTGCCTGCTCCAACAGGATCGGACGCTTTGTGATC  
GAAGAGGTTCTGGCGAGCTTATGCAGGAAGACCTGGCTACTGATGACGTGATGCTCCTGGACACCTGGG  
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GCGGTACATCGAGACAGATCCAGCAAATCGGGACAGGCGGACCCCATCACAGTCGTTAGGCAGGCTTT  
GAGCCTCCTTCTTCGTGGGCTGGTTCCTCGGCTGGGATGACAACCTACTGGTCCGGTGGATCCTTTGGACC  
GGCCTTGGCTGAGCTGGCTGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR231014 representing NM\_001206368  
 Red=Cloning site Green=Tags(s)

MVVEHPEFLKAGKEPGLQIWRVEKFDLVPVPPNLYGDFFTGDAYVILKTVQLRNGNLQYDLHYWLGNECS  
 QDESGAAAIFTVQLDDYLNGRAVQHREYVQGFESSTFSGYFKSGLKYKGGVSGFKHVPNEVVVQRLFQ  
 VKGRRVVRATEVPVSWDSFNNGDCFILDLGNNIYQWCGSGSNKFERLKATQVSKGIRDNERSGRAQVHVS  
 EEGGEPEAMLQVLGPKPALPEGTEDTAKEDAANRRRLAKLYKVSNGAGSMSVSLVADENPFAQGALRSEDC  
 FILDHGRDGIKIFVWKGKQANMEERKAALKTASDFISKMQYPRQTQVSVLPEGGETPLFKQFFKNWRDPDQ  
 TDGPGGLGYLSSHIANVERVPFDAATLHTSTAMAAQHGMDDDGQKQIWRIEGSNKVPVDPATYGQFYGG  
 DSYIILYNYRHGGRQGIYIYNWQGAQSTQDEVAASAILT AQLDEELGGTPVQSRVQVQKPEAHLMSLFGG  
 KPMIIYKGGTSRDGGQTAPASIRLFQVRASSSGATRAVEVMPKSGALNSNDAFVLKTPSAAYLVWGAGAS  
 EAEKTGAQELLKVLRSQHVVQVEEGSEPDAFWEALGGKTAYRTSPRLKDKKMDAHPPLRFACSNRIGRFVI  
 EEVPGELMQEDLATDDVMLLDTWDQVFVWVGKDSQEEKTEALTSAKRYIETDPANRRRTPITVVRQGF  
 EPPSFGWFLGWDDNYWSDPLDRALAEALAA

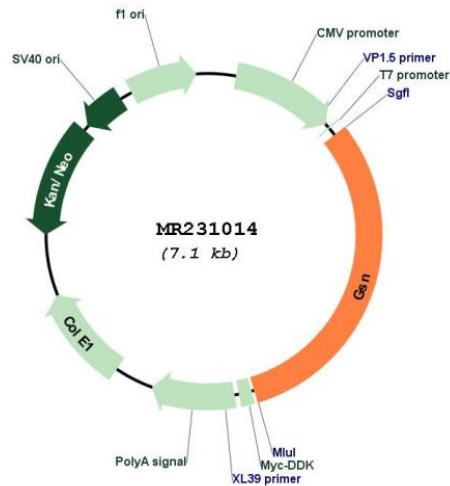
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_001206368

**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\\_001206368.1](#), [NP\\_001193297.1](#)

**RefSeq Size:** 2556 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]