

## Product datasheet for **MR225859**

### Gnas (NM\_201616) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gnas (NM_201616) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gnas
Synonyms:	5530400H20Rik; A930027G11Rik; C130027O20Rik; G; Ga; Galphas; Gn; Gnas1; Gnasxl; GPSA; Gs-; Gs-alpha; Gsa; GSP; N; Nes; Nesp; Nesp55; Nespl; Oed; Oed-Sml; Oedsml; P; P1; P2; P3; PHP1A; PHP1B; POH; SCG; SCG6; XL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR225859 representing NM\_201616  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGCTGCCTCGGCAACAGTAAGACCGAGGACCAGCGCAACGAGGAGAAGGCGCAGCGGAGGCCAACA  
 AAAAGATCGAGAAGCAGCTGCAGAAGGACAAGCAGGTCTACCGGCCACGCACCGCTGCTGCTGCTGGG  
 TGCTGGAGAGTCTGGCAAAGCACCATTGTGAAGCAGATGAGGATCCTGCATGTTAATGGGTTTAAACGGA  
 GAGGGCGGCGAAGAGGACCCGAGGCTGCAAGGAGCAACAGCGATGGTGAGAAGGCCACTAAAGTGCAGG  
 ACATCAAAAACAACCTGAAGGAGGCCATTGAAACCATTGTGGCCGCCATGAGCAACCTGGTCCCTCTGT  
 GGAGCTGGCCAACCTGAGAACCAGTTCAGAGTGGACTACATTCTGAGCGTGATGAACGTGCCGAACCTT  
 GACTTCCACCTGAATTCTATGAGCATGCCAAGGCTCTGTGGGAGGATGAGGGAGTGCCTGCCTGCTACG  
 AGCGCTCCAATGAGTACCAGCTGATTGACTGTGCCAGTACTTCTGGACAAGATTGATGTGATCAAGCA  
 GGCCGACTACGTGCCAAGTGACCAGGACCTGCTTCGCTGCCGTGCTCTGACCTCTGGAATCTTTGAGACC  
 AAGTTCAGGTGGACAAAGTCAACTTCCACATGTTTCGATGTGGCGGCCACGCAGCGATGAGCGCCGCAAGT  
 GGATCCAGTGCTCAATGATGTGACTGCCATCATCTTCGTGGTGGCCAGCAGCAGCTACAACATGGTTCAT  
 TCGGGAGGACAACCAGACTAACCCTGCGAGGAGGCTCTGAACCTCTTCAAGAGCATCTGGAACAACAGA  
 TGGCTGCGCACCATCTCTGTGATTCTTCTTCTCAACAAGCAAGACCTGCTTGCTGAGAAAGTCTCTGCTG  
 GCAAAATCGAAGATTGAGGACTACTTCCAGAGTTCGCTCGCTACACCCTCTGAGGATGCGACTCCCGA  
 GCCGGGAGAGGACCCACGCGTGACCCGGGCAAGTACTTCATTCCGGATGAGTTTCTGAGAATCAGCACT  
 GCTAGTGGAGATGGGCGCCACTACTGCTACCCTCACTTACCTGCGCCGTGGACTGAGAACATCCGCC  
 GTGTCTTCAACGACTGCCGTGACATCATCCAGCGCATGCATCTCCGCCAATACGAGCTGCTC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR225859 representing NM\_201616  
 Red=Cloning site Green=Tags(s)

MGCLGNSKTEDQRNEEKAQREANKKIEKQLQKDKQVYRATHRLLLL GAGESGKSTIVKQMRILHVNGFNG  
 EGGEEDPQAARSNSDGEKATKVQDIKNNLKEA IETIVAAMS NLVPPVELANPENQFRVDYILSVMNVPNF  
 DFPPEFYEAKALWEDEGVRACYERSNEYQLIDCAQYFLDKIDVIKQADYVPSDQDLLRCRVLTS GIFET  
 KFQVDKVNFMFDVGGQRDERRKWIQCFNDVTAIIFVVA SSSYNMVIREDNQTNR LQEALNLFKSIWNNR  
 WLRTISVILFLNKQDLLAEKVLGKSKI EDYFPEFARYTTPEDATPEPGEDPRVTRAKYFIRDEF L RIST  
 ASGDGRHYCYPHFTCAVDTENIRRVFNDCRDIIQRMHLRQYELL

**SGP**TRTRPLEQKLISEEDLAANDILDYKDDDDK**V**

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9008\\_a03.zip](https://cdn.origene.com/chromatograms/mm9008_a03.zip)

**Restriction Sites:**

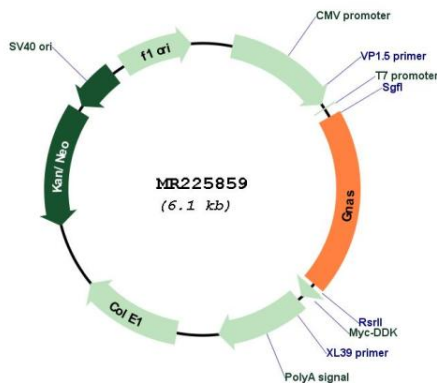
Sgfl-RsrII



RefSeq: [NM\\_201616.3](#)  
 RefSeq Size: 1762 bp  
 RefSeq ORF: 1185 bp  
 Locus ID: 14683  
 UniProt ID: [P63094](#)  
 Cytogenetics: 2 97.89 cM  
 MW: 46.1 kDa

**Gene Summary:** This locus has a highly complex imprinted expression pattern. It gives rise to maternally, paternally, and biallelically expressed transcripts that are derived from four alternative promoters and 5' exons. Some transcripts contain a differentially methylated region (DMR) at their 5' exons, which is commonly found in imprinted genes and correlates with transcript expression. This gene has an antisense transcript. One of the transcripts produced from this locus, and the antisense transcript, are both paternally expressed noncoding RNAs, and may regulate imprinting in this region. In addition, one of the transcripts contains a second overlapping ORF, which encodes a structurally unrelated protein - Alex. Alternative splicing of downstream exons is also observed, which results in different forms of the stimulatory G-protein alpha subunit, a key element of the classical signal transduction pathway linking receptor-ligand interactions with the activation of adenylyl cyclase and a variety of cellular reponses. Additional transcript variants have been found for this gene, but the full-length nature and/or biological validity of some variants have not been determined. [provided by RefSeq, Jun 2015]

**Product images:**



Circular map for MR225859