

Product datasheet for **MC208567**

Gnas (NM_201616) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gnas (NM_201616) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gnas
Synonyms:	5530400H20Rik; A930027G11Rik; C130027O20Rik; G; Ga; Galphas; Gn; Gnas1; Gnasxl; GPSA; Gs-; Gs-alpha; Gsa; GSP; N; Nes; Nesp; Nesp55; Nesp1; 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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Fully Sequenced ORF: >MC208567 representing NM_201616
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCTGCCTCGGCAACAGTAAGACCGAGGACCAGCGCAACGAGGAGAAGGCGCAGCGGAGGCCAACA
 AAAAGATCGAGAAGCAGCTGCAGAAGGACAAGCAGGTCTACCGGCCACGCACCGCCTGCTGCTGCTGGG
 TGCTGGAGAGTCTGGCAAAGCACCATTGTGAAGCAGATGAGGATCCTGCATGTTAATGGGTTTAAACGGA
 GAGGGCGGCGAAGAGGACCCGAGGCTGCAAGGAGCAACAGCGATGGTGAGAAGGCCACTAAAGTGCAGG
 ACATCAAAAACAACCTGAAGGAGGCCATTGAAACCATTGTGGCCGCCATGAGCAACCTGGTCCCCCTGT
 GGAGCTGGCCAACCTGAGAACCAGTTCAGAGTGGACTACATTCTGAGCGTGATGAACGTGCCGAACCTT
 GACTTCCACCTGAATTCTATGAGCATGCCAAGGCTCTGTGGGAGGATGAGGGAGTGCCTGCCTGCTACG
 AGCGCTCAATGAGTACCAGCTGATTGACTGTGCCAGTACTTCTGGACAAGATTGATGTGATCAAGCA
 GGCCGACTACGTGCCAAGTGACCAGGACCTGCTTCGCTGCCGTGCTCTGACCTCTGGAATCTTTGAGACC
 AAGTTCAGGTGGACAAAGTCAACTTCCACATGTTTCGATGTGGCGGCCAGCGCGATGAGCGCCGCAAGT
 GGATCCAGTGCTTCAATGATGTGACTGCCATCATCTTCGTGGTGGCCAGCAGCAGCTACAACATGGTCAT
 TCGGGAGGACAACCAGACTAACCCTGCGAGGAGGCTCTGAACCTCTTCAAGAGCATCTGGAACAACAGA
 TGGCTGCGCACCATCTCTGTGATTCTTCTTCAACAAGCAAGACCTGCTTGCTGAGAAAGTCTCTGCTG
 GCAAAATCGAAGATTGAGGACTACTTCCAGAGTTCGCTCGCTACACCCTCTGAGGATGCGACTCCCGA
 GCCGGGAGAGGACCCACGCGTGACCCGGGCCAAGTACTTCATTCCGGGATGAGTTTCTGAGAATCAGCACT
 GCTAGTGGAGATGGGCGCCACTACTGCTACCCTCACTTACCTGCGCCGTGGACTGAGAACATCCGCC
 GTGTCTTCAACGACTGCCGTGACATCATCCAGCGCATGCATCTCCGCCAATACGAGCTGCTCTAA

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGA TAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja1203_c08.zip

Restriction Sites: SgfI-RsrII

ACCN: NM_201616

Insert Size: 1185 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_201616.1](#), [NP_963910.1](#)

RefSeq Size: 1762 bp

RefSeq ORF: 1185 bp

Locus ID: 14683

UniProt ID: [P63094](#)

Cytogenetics: 2 97.89 cM

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 responses. 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]

Transcript Variant: This variant (7) is biallelically expressed and encodes guanine nucleotide binding protein alpha-s long (GNASL) isoform, also known as alpha-S2, a form of the G-protein alpha subunit. Variants 7 and 10 encode the same isoform (GNASL).