

Product datasheet for **RR200464**

Gnas (NM_001024823) Rat Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Gnas (NM_001024823) Rat Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Gnas |
| Synonyms: | ALEX; G-alpha-8; Gnas1; Gnpas; Nesp55; SCG6 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide
Sequence:

>RR200464 representing NM_001024823
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCCCATCCCCGACGAGACTGACAGTGGGTCTGTGGACCCCTGAAGACTCCAATCTGACATCCA
 GAGCCCCAGTCAGGCCTTCGAGGAAGTCCAAGTGGGCGGAGACTACAGCCACCTCCAGAGGAAGCCATG
 CCATTCGAGATCCAACAGCCAGCCTGGGAGATTTCTGGCCACCCCTGGAGCAGCCTGGACCATCTGGGA
 CCCCATCAGGCATCAAAGCCTTCAACCCAGCGATTTTGGAGCCCGGGACCCCACTGGTGCACACCCAGG
 CCTGGGAGCCTATAGCCCCCACCAGAAGAAGCTATGCCATTTGAGTTCAATGAGCCTGCCAGGAAGAC
 CGTTGCCAGCCTCCCTTGAAGTCCAGACCTTGCAGGAGGGTCCGGAAGCATGGGTCTCCAGAGCTC
 TTCGCCGAGCCCGGAACCTCGGATTTGAAACACTGGCTTCCGAGAAGACTACAGCCCTCCACCTGA
 AGAATCTGTGCCATTTAGCTCGATGGAGAAGAATTCGGGGCGATAGCCACCCCAAGGACTCCCGCA
 GTCAGCCACAAATCGGCATTGGCGGCGAGTCCCGACAGTCGCGGTCCCGAGTACGCTCTGCCTCGCTC
 CGCCCGGAACCGCCTCCCTCTGGGTCCAGGGCGCCATTGGCAGACCATTCCGCGAGGCTGTAGATC
 TCTAACTTCGCATACGACATTTCCCAATGGAGATCACAGACCCCTGCTTGAGATTGGCAGAGCCTCC
 ACTGGGGTCGACGACGACACCCGCTGTCAATATGGACAGCCCCCAATCGCAAGTATGGCCCGCCATCG
 AAGTCTCGGGAGCCCAAGTAAAGAGCGAGCAGCAAGAGACCCCACTTGAGCGACAAGCAGCCGAGAC
 AGGAAACAGCCCTATCAGCAGCACCCTGCAGAGGAGGCAAAAGTCCCTCCCTCGAGCGAGGAGAAGGA
 TCCCCACCAACCTGAAACAGTGCATATCAAGCCAGCTCCTGTTGCGGAGTCCGGAACGGACTCTTCCA
 AAGCCGATCCGGACTCAGCTACACACGCGATTCTTCCAGATCGGTCTGAGGAAGTCCGAGGAGTCCCAAC
 CATGCCACCGATCTTCCGCTGCTTGAAGATGCGGGCCAGATGTCGGGCGAACCAGACGAGCCGAGGG
 ACAGCCCCAGCCACCCCTGCCGAGTCCGAAGACAACAGAGAACCAGCCCGCCGCGCCGAGCCAG
 CCGCCGAGCCAGCCGCTGAGCCAGCCGCGAGCCAGCCGCGAGCCAGCCGCGAGCCAGCCGCGAGCCAGCTGCCGAGGC
 AGTCCCTGACACCGAAGCCGAGTCTGCCTCCGGGGCAGTCCCGACACCAAGAGGAGCCCGCAGCCGCG
 GCAGCCTCTGCCACGCGCGGAGCCTGCCGCCGGGAGCCCGGTCACCCCTACGGAGCCCGCTACCC
 GGGCTGTCCCTTCTGCCAGAGCCATCCAGCCCGGGGCTGTCCCTGGAGCCTCAGCGATGTCAGCCGC
 TGCTAGGGCAGCCCGCTAGAGCAGCCTATGCAGGTCTCTGGTCTGGGAGCCAGGTCACCTCTCGGT
 ACTCCAGCCGCTCGGGCATCCCTCCCTGCCCGCGCAGCAGTCCCGCCGAGCAGCCTCTGCTGCCCGG
 CAGTCGCTGCCGCGGTCAGCCTCTGCCGCCCAAGCAGGGCCATCTTAGACCCCAAGCCCGGAGAT
 CCAGGTTGCTGACCCGCCTACTCCGCGGCTGCTCCGCGCCGAGTGCCTGGCCTGACAAATACGAACGT
 GGCCGAAGCTGCTGCAGGTATGAGGCTGCTCCGGCATCTGCGAGATCGAGTCTCCAGCGATGAGTCGG
 AAGAAGGGGCCACTGGTCTTCCAGTGGCTTCTGCGGGCAAACCGCCGCTGGCCAGCCCGGAGCCA
 CACAGTCGGGAGCAACCCGGTCCGCAACTTCTCGCCGAGCCTTCGGAAGTCTCGGTCTATCTGAG
 TGTACCCGATCACGATCCCTCAGCCCGGGAAGGCCAAGGATCCTATGGAAGAGAGGCGCAAACAGATGC
 GCAAAGAAGCCATGGAGATGCGAGAGCAGAAGCGCGAGATAAGAAACGCAGCAAGCTCATCGACAAGCA
 ACTGGAGGAGGAGAAGATGGACTACATGTGTACACACCCGCTGCTGCTC

ACGCGTACGCGCGCCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

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_001024823.4](#), [NP_001019994.4](#)

RefSeq Size: 3826 bp

RefSeq ORF: 2223 bp

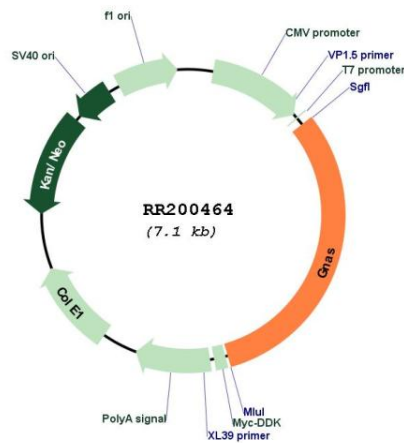
Locus ID: 24896

Cytogenetics: 3q43

MW: 80.7 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, and this DMR is commonly found in imprinted genes and correlates with transcript expression. 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. Multiple transcript variants have been found for this gene. [provided by RefSeq, Apr 2009]

Product images:



Circular map for RR200464