

Product datasheet for RR200465

Gnas (NM_019132) Rat Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

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| Product Type: | Expression Plasmids |
|------------------------------|--|
| Product Name: | Gnas (NM_019132) 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) |
| ORF Nucleotide Sequence: | <pre>>RR200465 representing NM_019132 Red=Cloning site Blue=ORF Green=Tags(s)</pre> |
| | TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC |
| | ATGGGCTGCCTCGGCAACAGTAAGACCGAGGACCAGCGCAACGAGGAGAAGGCGCAGCGCGAGGCCAACA |

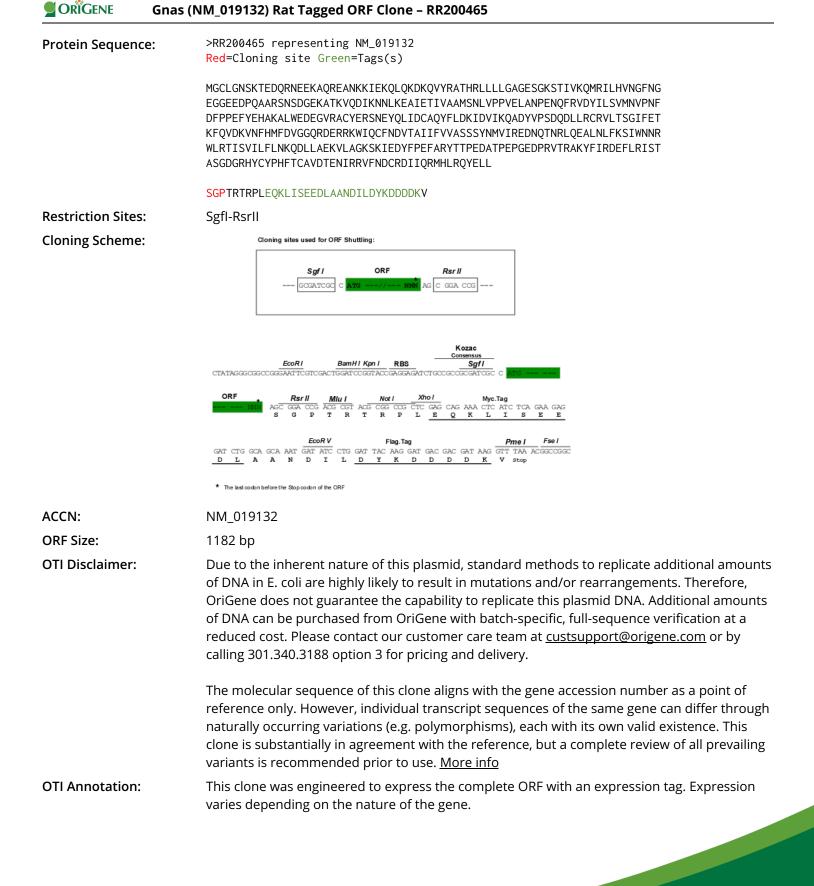
ACA TGCTGGAGAGTCTGGCAAAAGCACCATTGTGAAGCAGATGAGGATCCTACATGTTAATGGGTTTAACGGA GAGGGCGGCGAAGAGGACCCGCAGGCTGCAAGGAGCAACAGCGATGGTGAGAAGGCCACCAAAGTGCAGG ACATCAAAAACAACCTGAAGGAGGCCATTGAAACCATTGTGGCCGCCATGAGCAACCTGGTGCCCCCCGT GGAGCTGGCCAACCCTGAGAACCAGTTCAGAGTGGACTACATTCTGAGCGTGATGAACGTGCCAAACTTT GACTTCCCACCTGAATTCTATGAGCATGCCAAGGCTCTGTGGGAGGATGAGGGAGTTCGTGCCTGCTACG AGCGCTCCAACGAGTACCAGCTGATCGACTGTGCCCAGTACTTCCTGGACAAGATTGATGTGATCAAGCA GGCCGACTACGTGCCAAGTGACCAGGACCTGCTTCGCTGCCGCGTCCTGACCTCTGGAATCTTTGAGACC AAGTTCCAGGTGGACAAAGTCAACTTCCACATGTTCGATGTGGGCGGCCAGCGCGATGAACGCCGCAAGT GGATCCAGTGCTTCAATGATGTGACTGCCATCATCTTCGTGGTGGCCAGCAGCAGCTACAACATGGTCAT CCGGGAGGACAACCAGACCAACCGTCTGCAGGAGGCTCTGAACCTCTTCAAGAGCATCTGGAACAACAGA GCCCGGAGAGGACCCACGCGTGACCCGGGCCAAGTACTTCATCCGGGATGAGTTTCTGAGAATCAGCACT GCTAGTGGAGATGGACGTCACTACTGCTACCCTCACTTTACCTGCGCCGTGGACACTGAGAACATCCGCC

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC TGGATTACAAGGATGACGACGATAAGGTTTAA



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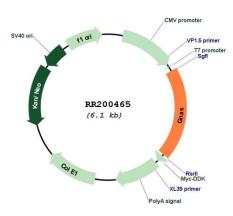
| | Gnas (NM_019132) Rat Tagged ORF Clone – RR200465 |
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| Components: | The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water). |
|------------------------|--|
| Reconstitution Method: | Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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: | <u>NM 019132.2</u> |
| RefSeq Size: | 1738 bp |
| RefSeq ORF: | 1185 bp |
| Locus ID: | 24896 |
| UniProt ID: | <u>P63095</u> |
| Cytogenetics: | 3q43 |
| MW: | 45.7 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] |

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Product images:



Circular map for RR200465

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