

## Product datasheet for **RR216702**

### **Gnal (NM\_001191836) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Gnal (NM_001191836) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gnal
Synonyms:	Golf; Olf; RGD1305940
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RR216702 representing NM\_001191836  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCCCTGTGCTACAGCCTACGGCCGCTGCTCTTCGGGAGCTCGGGGACGCCCCCTGTGAGGACTCTG  
 AGCCGTGCGCTGAGGATGCTCAGCCAGCGCCGCCGGGCCCGCCCGCCGATCCCAGCCCGGC  
 TCCGGTGGGGACCCTGCTCCGGCGAGGCGACGGCCGGATCCCGCAAGCGCGAGGTCGCCAGTCGAGCTG  
 CAGAACC GCCGGCGACAGGAGCAGCTGCGAGCCGAGGAGCGGAGGCAGCTAAGGAGGCGAGGAAAGTAA  
 GCCGGGTATCGACCGCATGCTGCGCGAACAGAAGCGCGACCTGCAGCAGACGCCGGCTCCTGCTCTT  
 GGGGGCTGGTGTGAGTCCGGGAAAAGCACTATAGTCAAACAGATGAGGATCTACACGTCAATGGCTTCAAC  
 CCCGAGGAAAAGAAGCAGAAAATCTGGACATCAGGAAAATGTCAAAGATGCTATTGTGACAATCGTTT  
 CAGCAATGAGTACCATAATACCTCCAGTCCACTGGCCAAACCCTGAGAACCAGTTTCGGTCAGATTACAT  
 CAAGAGCATAGCCCTATCACTGACTTTGAATATTCAGGAGTCTTTGACCACGTGAAGAAGCTGTGG  
 GATGATGAGGGAGTGAAGGCCTGCTTTGAGAGATCCAACGAGTACCAGCTGATCGACTGTGCACAATACT  
 TCCTGAAAGGATTGACAGCGTGAGTCTGGTTGACTACACACCCACAGACCAGGACCTACTCAGATGCAG  
 AGTGCTGACATCAGGGATCTTTGAGACACGATTCCAAGTGGAACAAAGTGAACCTTTCACATGTTTGACGTT  
 GGAGGCCAGAGGGATGAGAGAAGAAAATGGATCCAGTGTTTAACGATGTCACTGCCATCATCTATGTGG  
 CAGCCTGCAGCAGCTACAACATGGTGATCCGGGAAGATAACAACACCAACAGACTCCGGGAGTCGCTGGA  
 CCTGTTTGAAGCATCTGGAATAACAGGTGGTTACGAACATTTCCATCATCCTGTTCTTGAACAAACAA  
 GATATGCTGGCAGAAAAGTCTTGGCAGGAAGTCAAAAATTGAAGACTATTTCCGGAGTATGCCAACT  
 ATACTGTCCCTGAAGATGCAACACCAGATGCAGGAGAAGATCCCAAAGTTACAAGAGCCAAGTTCTTTAT  
 CCGGGATCTGTTCTTGAGGATCAGCACAGCCACGGGTGATGGCAAACATTACTGCTACCCTCACTCACC  
 TGCGCCGTGGACACAGAGAACATCCGCAGAGTGTCAACGATTGTCGTGACATCATCCAGAGAATGCACC  
 TCAAGCAGTACGAACTCTTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR216702 representing NM\_001191836  
 Red=Cloning site Green=Tags(s)

MGLCYSLRPLLFGSSGDAPCEDSEPCAEDAQPSAARAPAPAPIPAPAPVGTLLRRGDGRIPASARSPVEL  
 QNRRRQEQLRAEEREAAKEARKVSRGIDRMLREQKRDLLQTHRLLLLGAGESGKSTIVKQMRILHVNGFN  
 PEEKKQKILDIRKNVKDAIVTIVSAMSTIIPPVPLANPENQFRSDYIKSIAPITDFEYSQEFFDHVKKLW  
 DDEGVKACFERSNEYQLIDCAQYFLERIDSVSLVDYPTDQDLLRCRVLTSGIFETRFQVDKVNFMFDV  
 GGQRDERRKWIQCFNDVTAIYVAACSSYNMVIREDNNTNRLRESLDLFEIWNRLRTISIIILFLNKQ  
 DMLAEKVLGKSKIEDYFPEYANYTPEDATPDAGEDPKVTRAKFFIRDLFRLRISTATGDGKHYCYPHFT  
 CAVDTENIRRVFNDCRDI IQRMHLKQYELL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/ja3326\\_f04.zip](https://cdn.origene.com/chromatograms/ja3326_f04.zip)

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001191836

**ORF Size:** 1350 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](mailto: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](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

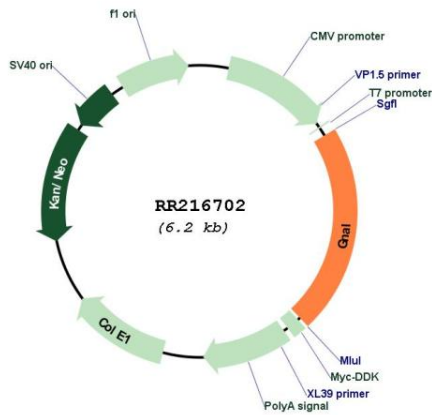
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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\\_001191836.2](#), [NP\\_001178765.1](#)  
 RefSeq Size: 1523 bp  
 RefSeq ORF: 1353 bp  
 Locus ID: 24611  
 UniProt ID: [P38406](#)  
 Cytogenetics: 18q12.1  
 MW: 51.7 kDa

**Gene Summary:** alpha subunit of GTP-binding protein, first identified in the olfactory system; implicated in the signal transduction for odorant and visual stimuli and for one or more hormones/neurotransmitters [RGD, Feb 2006]

**Product images:**



Circular map for RR216702