

## Product datasheet for **MR207159**

### **Gnal (NM\_177137) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Gnal (NM_177137) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gnal
Synonyms:	2610011C15Rik; 9630020G10Rik; Galphaolf; Gna10; Golf
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR207159 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGCCTATGCTACAGCCTGCGGCCGCTGCTCTTCGGGAGCCCAGAGGACACCCCGTGTGCGGCCCTCGG  
 AACCTGCGCAGAGGATGCTCAGCCAGCGCCGCCCGGCCCTGCCTCGATCCCAGCCCCGGCTCCCGT  
 AGGGACCTGCTCCGGCGTGGCGCGGCCGGATCGTCGCGAACGCGCGGCCGCCAGGCGAGCTGCAGAGC  
 CGCCGGGACAGGAGCAGCTACGAGCCGAGGAGCGCGAGGCGGCTAAAGAGGCGAGGAAAGTCAGCCGGG  
 GCATCGACCGCATGCTGCGCGAGCAGAAGCGGGACCTGCAGCAGACGCCGGCTCCTGCTGCTGGGGG  
 TGGTGAGTCCGGGAAAAGCACTATCGTCAAACAGATGAGGATCCTGCACGTCAATGGCTTCAACCCCGAG  
 GAAAAGAAGCAGAAAATCTGGACATCAGGAAAAATGTCAAAGATGCGATCGTGACAATCGTTTCAGCAA  
 TGAGTACTATCATACCTCCAGTTCCTACTGGCCAACCTGAGAACCAGTTCGGTCCAGATTATATCAAGAG  
 CATAGCCCTATCACTGACTTTGAATATCCCAGGAGTCTTTGACCATGTGAAGAAGCTGTGGGACGAT  
 GAAGGAGTGAAGGCTGCTTTGAGAGATCCAACGAGTACCAGCTGATCGACTGTGACAATACTTCTCTGG  
 AAAGGATTGACAGTGTGAGTCTGGTTGACTACACCCACAGACCAGGACCTGCTCAGATGCAGAGTGTCT  
 GACATCAGGAATCTTTGAGACACGATCCAAGTGGACAAAGTGAACCTTTCACATGTTTATGTTGGAGGC  
 CAGAGAGATGAGAGAAGAAAATGGATCCAGTGTTTAATGATGCTACTGCGATCATTTACGTGGCGGCC  
 GTAGTAGCTACAACATGGTGTCCGGGAAGATAACAATACCAACAGACTTCGGGAATCACTGGACCTGTT  
 TGAAAGCATCTGGAATAACAGGTGGTTGCGAACCATTTCTATCATCTATTCTTGAACAACAAGACATG  
 CTGGCAGAAAAAGTCTTGGCAGGGAAGTCAAAAATCGAAGACTATTTCCGGGAGTATGCCAATTACTG  
 TCCCTGAAGATGCAACACCAGATGCGGGAGAAGATCCCAAAGTTACAAGAGCAAAGTCTTTATCCGGGA  
 TCTGTTCTTGAGGATCAGCACAGCCACGGGTGATGGCAAACATTACTGCTACCCTCACTTCACTGCGCC  
 GTGGACACAGAGAACATCCGAGAGTGTCAACGATTGCCGTGACATCATCCAGAGAATGCATCTCAAGC  
 AGTACGAACTCTTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR207159 protein sequence  
 Red=Cloning site Green=Tags(s)

MGLCYSLRPLLFGSPEDTPCAASEPCAEDAQPSAAPAPASIPAPAPVGTLLRRGGGRIVANARPPGELQS  
 RRRQEQLRAEEREAAKEARKVSRGIDRMLREQKRDQQTHRLLLL GAGESGKSTIVKQMRILHVNGFNPE  
 EKKQKILDIRKNVKDAIVTIVSAMSTIIPPVPLANPENQFRSDYIKSIAPITDFEYSQEFFDHVKKLWDD  
 EGVKACFERSNEYQLIDCAQYFLERIDSVSLVDYTPDQDLLRCRVLTSGIFETRFQVDKVNFMFDVGG  
 QRDERRKWIQCFNDVTAIIYVAACSSYNMVIREDNNTNRLRESLDLFESIWNRLRTISIILFLNKQDM  
 LAEKVLAGKSKIEDYFPEYANYTPEDATPDAGEDPKVTRAKFFIRDFLRISTATGDGKHYCYPHFTCA  
 VDTENIRRVFNDCRDIIQRMHLKQYELL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**



**ACCN:** NM\_177137

**ORF Size:** 1347 bp

**OTI Disclaimer:** 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\\_177137.5](#), [NP\\_796111.2](#)

**RefSeq Size:** 5654 bp

**RefSeq ORF:** 1347 bp

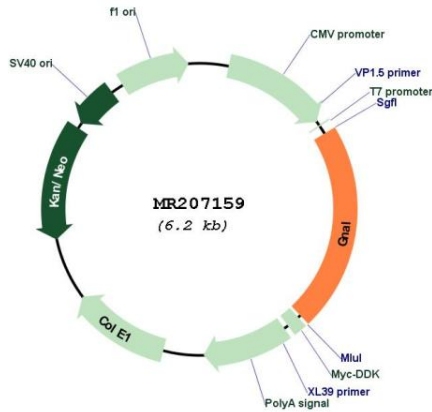
**Locus ID:** 14680

**Cytogenetics:** 18 39.85 cM

**MW:** 51.4 kDa

**Gene Summary:** Guanine nucleotide-binding proteins (G proteins) are involved as modulators or transducers in various transmembrane signaling systems. G(olf) alpha mediates signal transduction within the olfactory neuroepithelium and the basal ganglia. May be involved in some aspect of visual transduction, and in mediating the effect of one or more hormones/neurotransmitters (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR207159