

Product datasheet for **MG207159**

Gnal (NM_177137) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gnal (NM_177137) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gnal
Synonyms:	2610011C15Rik; 9630020G10Rik; Galphaolf; Gna10; Golf
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207159 representing NM_177137
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCCTATGCTACAGCCTGCGGCCGCTGCTCTTCGGGAGCCCAGAGGACACCCCGTGTGCGGCCCTCGG
 AACCTGCGCAGAGGATGCTCAGCCAGCGCCGCCCGGCCCTGCCTCGATCCCAGCCCCGGCTCCCGT
 AGGGACCTGCTCCGGCGTGGCGCGGCCGGATCGTCGGAACGCGCGGCCGCCAGGCGAGCTGCAGAGC
 CGCCGGGACAGGAGCAGCTACGAGCCGAGGAGCGCGAGGCGGCTAAAGAGGCGAGGAAAGTCAGCCGGG
 GCATCGACCGCATGCTGCGCGAGCAGAAGCGGGACCTGCAGCAGACGCCGGCTCCTGCTGCTGGGGG
 TGGTGAGTCCGGGAAAAGCACTATCGTCAAACAGATGAGGATCCTGCACGTCAATGGCTTCAACCCCGAG
 GAAAAGAAGCAGAAAATCTGGACATCAGGAAAAATGTCAAAGATGCGATCGTGACAATCGTTTCAGCAA
 TGAGTACTATCATACCTCCAGTTCCTACTGGCCAACCTGAGAACCAGTTCGGTCCAGATTATATCAAGAG
 CATAGCCCTATCACTGACTTTGAATATCCCAGGAGTCTTTGACCATGTGAAGAAGCTGTGGGACGAT
 GAAGGAGTGAAGGCTGCTTTGAGAGATCCAACGAGTACCAGCTGATCGACTGTGACAATACTTCTCTGG
 AAAGGATTGACAGTGTGAGTCTGGTTGACTACACCCACAGACCAGGACCTGCTCAGATGCAGAGTGTCT
 GACATCAGGAATCTTTGAGACACGATCCAAGTGGACAAAGTGAACCTTTCACATGTTTGTGTTGGAGGC
 CAGAGAGATGAGAGAAGAAAATGGATCCAGTGTTTAATGATGCTACTGCGATCATTACGTGGCGGCCCT
 GTAGTAGCTACAACATGGTGTCCGGGAAGATAACAATACCAACAGACTTCGGGAATCACTGGACCTGTT
 TGAAAGCATCTGGAATAACAGGTGGTTGCGAACCATTTCTATCATCCTATTCTTGAACAACAAGACATG
 CTGGCAGAAAAAGTCTTGGCAGGGAAGTCAAAAATCGAAGACTATTTCCGGGAGTATGCCAATTACTG
 TCCCTGAAGATGCAACACCAGATGCGGGAGAAGATCCCAAAGTTACAAGAGCAAAGTCTTTATCCGGGA
 TCTGTTCTTGAGGATCAGCACAGCCACGGGTGATGGCAAACATTACTGCTACCCTCACTTCACTGCGCC
 GTGGACACAGAGAACATCCGAGAGTGTCAACGATTGCCGTGACATCATCCAGAGAATGCATCTCAAGC
 AGTACGAACTCTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207159 representing NM_177137
 Red=Cloning site Green=Tags(s)

MGLCYSLRPLLFGSPEDTPCAASEPCAEDAQPSAAPAPASIPAPAPVGTLLRRGGGRIVANARPPGELQS
 RRRQEQLRAEEREAAKEARKVSRGIDRMLREQKRDQQTHRLLLGAGESGKSTIVKQMRILHVNGFNPE
 EKKQKILDIRKNVKDAIVTIVSAMSTIIPPVPLANPENQFRSDYIKSIAPITDFEYSQEFFDHVKKLWDD
 EGVKACFERSNEYQLIDCAQYFLERIDSVSLVDYTPDQDLLRCRVLTSIGIFETRFQVDKVNFMFDVGG
 QRDERRKWIQCFNDVTAIIYVAACSSYNYMVIREDNNTNRLRESLDLFEIWNRLRTISIIILFLNKQDM
 LAEKVLAGKSKIEDYFPEYANYTPEDATPDAGEDPKVTRAKFFIRDLFLRISTATGDGKHYCPHFTCA
 VDTENIRRVFNDCRDIIQRMHLKQYELL

TRTRPLE - GFP Tag - V

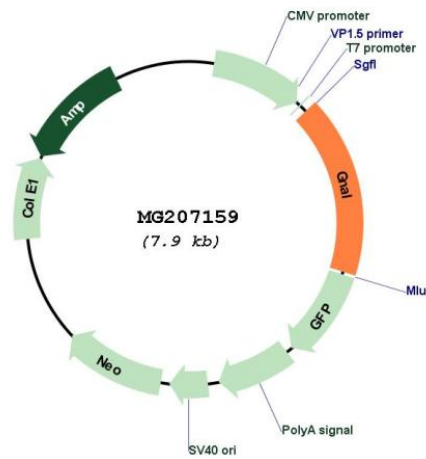
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_177137

ORF Size: 1344 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:	<ol style="list-style-type: none">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:	<u>NM_177137.5</u> , <u>NP_796111.2</u>
RefSeq Size:	5616 bp
RefSeq ORF:	1347 bp
Locus ID:	14680
Cytogenetics:	18 39.85 cM
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]