

Product datasheet for MR227159

Gnal (NM_010307) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gnal (NM_010307) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gnal
Synonyms:	2610011C15Rik; 9630020G10Rik; Galphaolf; Gna10; Golf
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR227159 representing NM_010307 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGGTGTGGGCAACAGCAGCAAGACCGCGGAAGATCAGGGCGTAGATGAAAAAGAACGCCGAGG
CCAACAAAAGATCGAGAAGCAGTTGCAGAAAGAGCGCCTGGCTTACAAAGCAACTACCGCCTGCTGCT
TCTGGGGGCTGGTGAGTCCGGGAAAAGCACTATCGTCAAACAGATGAGGATCCTGCACGTCATGGCTTC
AACCCCGAGGAAAAGAAGCAGAAAATTCTGGACATCAGGAAAAATGTCAAAGATGCGATCGTGACATCG
TTTCAGCAATGAGTACTATCATACCTCCAGTTCCTACTGGCCAACCCTGAGAACCAGTTCCGGTCAGATTA
TATCAAGAGCATAGCCCCTATCACTGACTTTGAATATCCAGGAGTTCTTTGACCATGTGAAGAAGCTG
TGGGACGATGAAGGAGTGAAGGCCTGCTTTGAGAGATCCAACGAGTACCAGCTGATCGACTGTGCACAAT
ACTTCTGGAAAGGATTGACAGTGTGAGTCTGGTTGACTACACACCCACAGACCAGGACCTGCTCAGATG
CAGAGTGTGACATCAGGAATCTTTGAGACAGATTCCAAGTGGACAAAGTGAACCTTTCACATGTTTGTG
GTTGGAGGCCAGAGAGATGAGAGAAGAAAATGGATCCAGTGTTTAATGATGTCACTGCGATCATTACG
TGGCGCCTGTAGTAGCTACAACATGGTGATCCGGGAAGATAACAATACCAACAGACTTCGGGAATCACT
GGACCTGTTGAAAGCATCTGGAATAACAGGTGGTTGCGAACCATTTCTATCATCTATTCTTGAACAAA
CAAGACATGCTGGCAGAAAAAGTCTTGGCAGGGAAGTCAAAAATCGAAGACTATTTCCCGGAGTATGCCA
ATTATACTGTCCCTGAAGATGCAACACCAGATGCGGGAGAAGATCCCAAAGTTACAAGAGCAAAGTTCTT
TATCCGGGATCTGTTCTTGAGGATCAGCACAGCCACGGGTGATGGCAAACATTACTGCTACCCTCACTTC
ACCTGCGCGTGGACACAGAGAACATCCGCAGAGTGTTC AACGATTGCCGTGACATCATCCAGAGAATGC
ATCTCAAGCAGTACGAACCTTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >MR227159 representing NM_010307
 Red=Cloning site Green=Tags(s)

MGCLGNSKTAEDQGVDEKERREANKKIEKQLQKERLAYKATHRLLLLGAGESGKSTIVKQMRILHVNGF
 NPEEKQKILDIRKNVKDAIVTIVSAMSTIIPPVPLANPENQFRSDYIKSIAPITDFEYSQEFFDHVKKL
 WDDEGVKACFERSNEYQLIDCAQYFLERIDSVSLVDYPTDQDLLRCRVLTSGIFETRFQVDKVNFMFD
 VGGQDERRRKWIQCFNDVTAIIYVAACSSYNMVIREDNNTNRLRESLDLFESIWNRLRTISIIILFLNK
 QDMLAEKVLGKSKIETYFPEYANYTVPEDATPDAGEDPKYTRAKFFIRDLFLRISTATGDGKHYCYPHF
 TCAVDTENIRRVFNDICRDIQRMHLKQYELL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

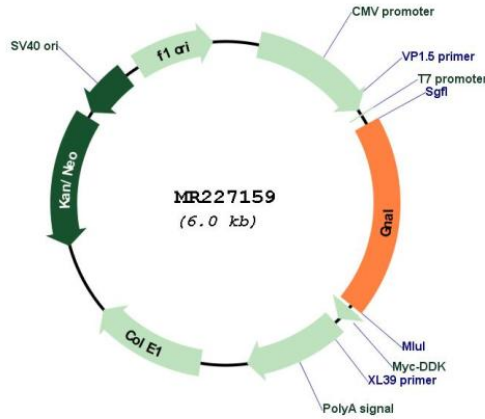
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_010307

ORF Size:	1143 bp
OTI Disclaimer:	<p>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 or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	NM_010307.3
RefSeq Size:	5223 bp
RefSeq ORF:	1146 bp
Locus ID:	14680
UniProt ID:	Q8CGK7
Cytogenetics:	18 39.85 cM
MW:	44.8 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]