

Product datasheet for **MC208564**

Gnal (NM_010307) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gnal (NM_010307) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gnal
Synonyms:	2610011C15Rik; 9630020G10Rik; Galphaolf; Gna10; Golf
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC208564 representing NM_010307 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGGGTGTGGGCAACAGCAGCAAGACCGGGAAGATCAGGGCGTAGATGAAAAAGAACGCCGCGAGG
CCAACAAAAGATCGAGAAGCAGTTGCAGAAAGAGCGCCTGGCTTACAAAGCAACTACCGCCTGCTGCT
TCTGGGGGCTGGTGAGTCCGGGAAAAGCACTATCGTCAAACAGATGAGGATCCTGCACGTCAATGGCTTC
AACCCCGAGGAAAAGCAGAAAATTCTGGACATCAGGAAAAATGTCAAAGATGCGATCGTGACAATCG
TTTCAGCAATGAGTACTATCATACCTCCAGTTCCACTGGCCAACCCTGAGAACCAAGTTCCGGTCAGATTA
TATCAAGAGCATAGCCCCATCACTGACTTTGAATATTCCAGGAGTTCTTTGACCATGTGAAGAAGCTG
TGGACGATGAAGGAGTGAAGGCCTGCTTTGAGAGATCCAACGAGTACCAGCTGATCGACTGTGCACAAT
ACTTCCTGGAAGGATTGACAGTGTGAGTCTGGTTGACTACACACCCACAGACCAGGACCTGCTCAGATG
CAGAGTGTGACATCAGGAATCTTTGAGACAGATTCCAAGTGGACAAAGTGAACTTTCACATGTTTGAT
GTTGGAGGCCAGAGAGATGAGAGAAGAAAATGGATCCAGTGTTTTAATGATGTCACTGCGATCATTTACG
TGGCGCCTGTAGTAGCTACAACATGGTGATCCGGGAAGATAACAATACCAACAGACTTCGGGAATCACT
GGACCTGTTTGAAGCATCTGGAATAACAGGTGGTTGCGAACCATTCTATCATCCTATTCTTGAACAAA
CAAGACATGCTGGCAGAAAAAGTCTTGGCAGGGAAGTCAAAAATCGAAGACTATTTCCCGGAGTATGCCA
ATTATACTGTCCCTGAAGATGCAACACCAGATGCGGGAGAAGATCCCAAAGTTACAAGAGCAAAAGTTCTT
TATCCGGGATCTGTTCTTGAGGATCAGCACAGCCACGGGTGATGGCAAACATTACTGCTACCCTCACTTC
ACCTGCGCGTGGACACAGAGAATCCGAGAGTGTTCAACGATTGCCGTGACATCATCCAGAGAATGC
ATCTCAAGCAGTACGAACCTTGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Chromatograms:	https://cdn.origene.com/chromatograms/ja1821_g06.zip
Restriction Sites:	Sgfl-Mlul
ACCN:	NM_010307
Insert Size:	1146 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>
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_010307.2 , NP_034437.1
RefSeq Size:	5489 bp
RefSeq ORF:	1146 bp
Locus ID:	14680
UniProt ID:	Q8CGK7
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]

Transcript Variant: This variant (1) represents the use of an alternate promoter, differs in the 5' UTR and initiates translation at an alternate start codon compared to variant 2. The encoded protein (isoform 1) has a distinct N-terminus and is shorter than isoform 2.

Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.