

Product datasheet for **SC303116**

GNAL (NM_002071) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GNAL (NM_002071) Human Untagged Clone
Tag:	Tag Free
Symbol:	GNAL
Synonyms:	guanine nucleotide binding protein (G protein), alpha activating activity polypeptide, olfactory type; guanine nucleotide binding protein (G protein), alpha stimulating activity polypeptide, olfactory type
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_002071 edited ATGGGGTGTTTGGGCGGCAACAGCAAGACGACGGAAGACCAGGGCGTTCGATGAAAAAGAA CGACGCGAGGCCAACAAAAAGATCGAGAAGCAGTTGCAGAAAGAGCGCCTGGCTTACAAG GCTACCCACCGCTGCTGCTCCTGGGGCTGGTGTGAGTCTGGGAAAAGCACTATCGTCAA CAGATGAGGATCCTGCACGTCAATGGGTTAATCCCGAGGAAAAGAAACAGAAAAATTCTG GACATCCGGAAAAATGTTAAAGATGCTATCGTGACAATTGTTTCAGCAATGAGTACTATA ATACCTCCAGTTCCGCTGGCCAACCCTGAAAACCAATTTTCGATCAGACTACATCAAGAGC ATAGCCCTATCACTGACTTTGAATATTCCAGGAATTCTTTGACCATGTGAAAAAACTT TGGGACGATGAAGGCGTGAAGGCATGCTTTGAGAGATCCAACGAATACCAGCTGATTGAC TGTGCACAATACTTCTGGAAAGAATCGACAGCGTCAGCTTGGTTGACTACACACCCACA GACCAGGACCTCCTCAGATGCAGAGTTCTGACATCTGGGATTTTTGAGACACGATTCCAA GTGGACAAAGTAAACTTCCACATGTTTGATGTTGGTGGCCAGAGGGATGAGAGGAGAAAA TGGATCCAGTGCTTAAACGATGTCACAGCTATCATTTACGTGCGAGCCTGCAGTAGCTAC AACATGGTGATTCGAGAAGATAACAACCAACAGGCTGAGAGAGTCCCTGGATCTTTTT GAAAGCATCTGGAACAACAGGTGGTTACGGACATTTCTATCATCTTGTCTTGAACAAA CAAGATATGCTGGCAGAAAAAGTCTTGGCAGGGAATCAAAAATTGAAGACTATTTCCCA GAATATGCAAATTATACTGTTCCCTGAAGACGCAACACCAGATGCAGGAGAAGATCCCAAA GTTACAAGAGCCAAGTTCTTTATCCGGGACCTGTTTTGAGGATCAGCACGGCCACCGGT GACGGCAAACATTACTGTACCCGCACTTACCTGCGCCGTGGACACAGAGAACATCCGC AGGGTGTTCACGACTGCCGCGACATCATCCAGCGGATGCACCTCAAGCAGTATGAGCTC TTGTGA
Restriction Sites:	Please inquire
ACCN:	NM_002071



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Insert Size:	1100 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_002071.1</u> , <u>NP_002062.1</u>
RefSeq Size:	2092 bp
RefSeq ORF:	1146 bp
Locus ID:	2774
Cytogenetics:	18p11.21
Protein Families:	Druggable Genome
Protein Pathways:	Calcium signaling pathway, Olfactory transduction
Gene Summary:	This gene encodes a stimulatory G protein alpha subunit which mediates odorant signaling in the olfactory epithelium. This protein couples dopamine type 1 receptors and adenosine A2A receptors and is widely expressed in the central nervous system. Mutations in this gene have been associated with dystonia 25 and this gene is located in a susceptibility region for bipolar disorder and schizophrenia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2013]