

Product datasheet for SC325854

GNAL (NM_001142339) Human Untagged Clone

Product data:

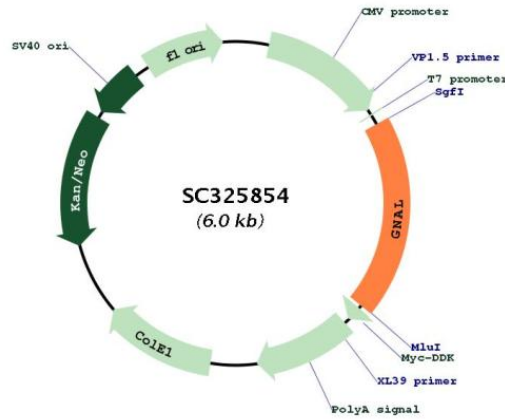
Product Type:	Expression Plasmids
Product Name:	GNAL (NM_001142339) Human Untagged Clone
Tag:	Tag Free
Symbol:	GNAL
Synonyms:	DYT25
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC325854 representing NM_001142339. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCC CGATCGCC
ATGGGGTGTGGGGCGCAACAGCAAGACGACGGAAGACCAGGGCGTCGATGAAAAAGAACGACGCGAG
GCCAACAAAAAGATCGAGAAGCAGTTGCAGAAAGAGCGCCTGGCTTACAAGGCTACCCACCCTGCTG
CTCCTGGGGCTGGTGTGCTGGGAAAAGCACTATCGTCAAACAGATGAGGATCCTGCACGTCAATGGG
TTTAAATCCCGAGGAAAAGAAACAGAAAATCTGGACATCCGAAAAATGTTAAAGATGCTATCGTGACA
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GACTACATCAAGAGCATAGCCCCTACTGACTTTGAATATCCAGGAATTCCTTGACCATGTGAAA
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TTCTTGAACAAACAAGATATGCTGGCAGAAAAAGTCTTGGCAGGAAATCAAAAATTGAAGACTATTTCC
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AGAGCCAAGTCTTTATCCGGGACCTGTTTTGAGGATCAGCACGGCCACCGGTGACGGCAACATTAC
TGCTACCCGCACTTCACCTGCGCGTGGACACAGAGAACATCCGCAGGGTGTCAACGACTGCCGCGAC
ATCATCCAGCGGATGCACCTCAAGCAGTATGAGCTCTTGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:


ACCN: NM_001142339

Insert Size: 1146 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:

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_001142339.2](#)

RefSeq Size: 6048 bp

RefSeq ORF: 1146 bp

Locus ID: 2774

UniProt ID: [P38405](#)

Cytogenetics:	18p11.21
Protein Families:	Druggable Genome
Protein Pathways:	Calcium signaling pathway, Olfactory transduction
MW:	44.3 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR and initiates translation at an alternate start codon, compared to variant 1. Variants 3 and 4 encode the same isoform (2), which is shorter and has a distinct N-terminus, compared to isoform 1. 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.</p>