

## Product datasheet for **SC125360**

### G protein alpha 16 (GNA15) (NM\_002068) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	G protein alpha 16 (GNA15) (NM_002068) Human Untagged Clone
Tag:	Tag Free
Symbol:	G protein alpha 16
Synonyms:	GNA16
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC125360 sequence for NM_002068 edited (data generated by NextGen Sequencing)

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ATGGCCCCGCTCGCTGACCTGGCGCTGCTGCCCTGGTGCCTGACGAGGATGAGAAGGCC
GCCGCCCGGGTGGACCAGGAGATCAACAGGATCCTCTTGGAGCAGAAGAAGCAGGACCGC
GGGGAGCTGAAGCTGCTGCTTTTGGGCCAGGCGAGAGCGGGAAGAGCACCTTCATCAAG
CAGATGCGGATCATCCACGGCGCCGGCTACTCGGAGGAGGAGCGCAAGGGCTTCCGGCCC
CTGGTCTACCAGAACATCTTCGTGTCCATGCGGGCCATGATCGAGGCCATGGAGCGGCTG
CAGATTCCATTAGCAGGCCCGAGAGCAAGCACCACGCTAGCCTGGTCATGAGCCAGGAC
CCCTATAAAGTGACCACGTTTGAAGCGCTACGCTGCGGCCATGCAGTGGCTGTGGAGG
GATGCCGGCATCCGGCCTGCTATGAGCGTCGGCGGGAATTCCACCTGCTCGATTCAGCC
GTGTACTACCTGTCCCACCTGGAGCGCATCACCAGGAGGGCTACGTCCCACAGCTCAG
GACGTGCTCCGCAGCCGATGCCACCACTGGCATCAACGAGTACTGCTTCTCCGTGCAG
AAAACCAACCTGCGGATCGTGGACGTCGGGGGCCAGAAGTCAGAGCGTAAGAAATGGATC
CATTGTTTCGAGAACGTGATCGCCCTCATCTACCTRGCCCTCACTGAGTGAATACGACCAG
TGCTGGAGGAGAAACACCAGGAGAACCAGCATGAAGGAGAGCCTCGCATTGTTTGGGACT
ATCCTGGAACCTACCCTGGTTCAAAGCACATCCGTATCCTCTTCTCAACAAAACCGAC
ATCCTGGAGGAGAAAATCCCCACCTCCCACCTGGCTACCTATTTCCCCAGTTTCCAGGGC
CCTAAGCAGGATGCTGAGGCAGCCAAGAGGTTTCATCCTGGACATGTACACGAGGATGTAC
ACCGGGTGCCTGGACGGCCCCGAGGGCAGCAAGAAGGGCGCAGATCCCAGCCCTYTTTC
AGCCACTACACATGTGCCACAGACACACAGAACATCCGCAAGGTCTTCAAGGACGTGCGG
GACTCGGTGCTCGCCCGCTACCTGGACGAGATCAACCTGCTGTGA
```

Clone variation with respect to NM\_002068.2  
440 a=>g;696 g=>r;1017 c=>y



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_002068 unedited  
 ATTTCCCACTTGNAACGATTTCATATAGGCGGCCGCGAAATCGGCACGAGGTTCCCAGCA  
 CTCAAGCCTTGCCACCGCCGAGCCGGGCTTCTGGGTGTTTCAGGCACGGAAGTCTAGGT  
 CCCTGGGGGGTGACCCCAAGGAAAAGGCAGCCTCCCTGCGCACCCGGATGCCCGGAGCC  
 CTCTCCAGGGCCGGCTGGGCTGGGGTTGCCCTGGCCAGCAGGGGCCCGGGGGCGATGCC  
 ACCCGGTGCCACTGAGGCCACCGACCATGGCCCGCTCGCTGACCTGGCGCTGCTGCC  
 CTGGTGCCCTGACGGAGGATGAGAAGGCCGCCCGGGTGGACCAGGAGATCAACAGGAT  
 CCTCTTGAGCAGAAGAAGCAGGACCGCGGGGAGCTGAAGCTGCTGCTTTTGGGCCCAGG  
 CGAGAGCGGGAAGAGCACCTTCATCAAGCAGATGCGGATCATCCACGGCCCGGCTACTC  
 GGAGGAGGAGCGCAAGGGCTTCCGGCCCTGGTCTACCAGAACATCTTCGTGTCATGCG  
 GGCCATGATCGAGGCCATGGAGCGGCTGCAGATTCATTACAGCAGGCCCGAGAGCAAGCA  
 CCACGCTAGCCTGGTTCATGAGCCAGGACCCCTATAAAGTGACCACGTTTGAGAAGCGCTA  
 CGCTGCGGCCATGCAGTGGCTGTGGAGGGATGCCGGCATCCGGGCCTGCTATGAGCGTCG  
 GCGGGAATTCACCTGCTCGAATCAGCCGTGTACTACCTGTCCCACCTGGAGCGCATCAC  
 CGAGGAGGGCTACGTCCCACAGCTCAGGACGTGCATCGCAGCCGCATGCCACCACTGG  
 CATCAACGAGTACTGCTTCTTCGTGCAGAACCAACCATGCGGACGTGGACGTCTNGGGG  
 CCCAGAGTCAGAGCGTAAGAAATGTACCATTGTTTCCAGACGTGTACCCCTT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_002068 unedited  
 NNNCCGGTACTACTATGNNACCGCGCCGCATNCTAGNGATCGGTTTTTTTTTTTTTTTTT  
 TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAACAGGACGCTGGCGACCCACCCT  
 TAAAAAATTTTAAATTTACCCCGCACGGAGCCCTGCAAAGGGGAGGGAATAAATACA  
 AAAGGTTAAAATGCAGCATGCCAGCCCCACCCTGCAAGGGATGGGGGATGCTTGGGG  
 GCCGCGATTTTTTCGTCCGCAAACCGGGCAGGACACCCTGTGAGCCACCGAGCTCTGA  
 AAGTGACAGTGTTCAGCGGTCTGTTACCCCTTGCAAAGGGAAGTCCCTGCCCCCTA  
 GTCCACAGGTTCTGGAAGGCGTTCCTTCTCCTGTCCACTAAAGTGCCCCAAAGTCCACC  
 CCCGAAGGCGCCTGAAGGCTTTACTAGCCCCATCCCAGGGTGGGCGTCACCCACAGAGGG  
 TCCCAAACCCCTGCCAGGAGGTGACACCCCGGAAATGGGGCTCCTGAAAGATGCCAC  
 CCACCAAAGTCTCAATCCCCTGATTTCTCACTTTTTCATCCACCCTGGCATCCCAAAT  
 GGCCGTTTTGCTCCTTCCCTTCAAAGGAGGAAACTGAGTCACAGCAGGGCAGGAGTTT  
 CCTGGGGGGCGGCTTGTCCCGGGGAGAGGCCAAAAAAGCGGCCACAGGGGGCCGTC  
 CGTCCCCCGACTCCCTTGCCTTGTGGCCCGGCTGGAAAATAAACAGGAACATTGGGGT  
 CCTGGAGAAATCCAATTCCAACCCCGGGGGCCCTGCCAAGTGGGGCCTGGGG  
 TAACAAAGGTGTATATCCTCCCATTAGGGGCCAACACAATT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_002068

**Insert Size:**

2500 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).

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_002068.1</a> , <a href="#">NP_002059.1</a>
<b>RefSeq Size:</b>	2060 bp
<b>RefSeq ORF:</b>	1125 bp
<b>Locus ID:</b>	2769
<b>UniProt ID:</b>	<a href="#">P30679</a>
<b>Cytogenetics:</b>	19p13.3
<b>Domains:</b>	G-alpha
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Calcium signaling pathway
<b>Gene Summary:</b>	Guanine nucleotide-binding proteins (G proteins) are involved as modulators or transducers in various transmembrane signaling systems.[UniProtKB/Swiss-Prot Function]