

## Product datasheet for **SC116066**

### **GNAI3 (NM\_006496) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GNAI3 (NM_006496) Human Untagged Clone
Tag:	Tag Free
Symbol:	GNAI3
Synonyms:	87U6; ARCND1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_006496, the custom clone sequence may differ by one or more nucleotides

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ATGGGCTGCACGTTGAGCGCCGAAGACAAGGCGGCAGTGGAGCGAAGCAAGATGATCGACC GCAACTTAC
GGGAGGACGGGGAAAAGCGGCCAAAGAAGTGAAGCTGCTGCTACTCGGTGCTGGAGAATCTGGTAAAAG
CACCATTGTGAACAGATGAAAATCATTTCATGAGGATGGCTATTCAGAGGATGAATGTAAACAATATAAA
GTAGTTGTCTACAGCAATACTATACAGTCCATCATTGCAATCATAAGAGCCATGGGACGGCTAAAGATTG
ACTTTGGGAAGCTGCCAGGGCAGATGATGCCCGCAATTATTTGTTTTAGCTGGCAGTGTGAAGAAGG
AGTCATGACTCCAGAAGTACAGGAGTGATTAACGGTTATGGCGAGATGGTGGGTACAAGCTTGCTTC
AGCAGATCCAGGGAATATCAGCTCAATGATTCTGCTTCATATTATCTAAATGATCTGGATAGAATATCCC
AGTCTAACTACATTCCAAGTCAAGATGTTCTTCGGACGAGAGTGAAGACCACAGGCATTGTAGAAAC
ACATTTACCTTCAAAGACCTATACTTCAAGATGTTTGATGTAGGTGGCCAAAGATCAGAACGAAAAAG
TGGATTCACTGTTTTGAGGGAGTGACAGCAATTATCTTCTGTGTGGCCCTCAGTGATTATGACCTTGTTT
TGGCTGAGGACGAGGAGATGAACCGAATGCATGAAAGCATGAAACTGTTTGACAGCATTTGTAATAACAA
ATGTTTACAGAACTTCAATCATTCTCTTCTTAACAAGAAAGACCTTTTTGAGGAAAAATAAAGAGG
AGTCCGTTAACTATCTGTTATCCAGAATACACAGGTTCCAATACATATGAAGAGGCAGCTGCCTATATTC
AATGCCAGTTTGAAGATCTGAACAGAAGAAAAGATACCAAGGAGATCTATACTCACTTCACTGTGCCAC
AGACACGAAGAATGTCAGTTTGTGTTTGTGATGCTGTTACAGATGTCATCATTAATAAAACAACCTTAAAGGAA
TGTGGACTTTATTGA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_006496 unedited GCACGAGGCCGAGCCGAGTTTCCGTGGTGTGAGTGAGTCCGGGCCGTGTCCCCTCTCC CGCCGCCGCCATGGGCTGCACGTTGAGCGCCGAAGACAAGGCGGCAGTGGAGCGAAGCAA GATGATCGACCGCAACTACGGGAGGACGGGAAAAAGCGGCCAAAGAAGTGAAGCTGCT GCTACTCGGTGCTGGAGAATCTGGTAAAAGCACCATTGTGAAACAGATGAAAATCATTCA TGAGGATGGCTATTCAGAGGATGAATGTAACAATATAAAGTAGTTGTCTACAGCAATAC TATACAGTCCATCATTGCAATCATAAGAGCCATGGGACGGCTAAAGATTGACTTTGGGGA AGCTGCCAGGGCAGATGATGCCCGCAATTATTTGTTTTAGCTGGCAGTGTGAAGAAGG AGTCATGACTCCAGAAGTACGAGGAGTGATTAACGGTTATGGCGAGATGGTGGGTACA AGCTTGCTTCAGCAGATCCAGGGAATATCAGCTCAATGATTCTGCTTCATATTATCTAAA TGATCTGGATAGAATATCCAGTCTAACTACATCCAAGTCAAGATGTTCTTCGGAC GAGAGTGAAGACCACAGGCATTGTAGAAACACATTTACCTTCA
<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_006496 unedited AAGCGCCGCGCCATCTACAGTAGAGGAGTTTTTTTTTTTTTTTGAATTCATAATTTT ATTGAAATGAGCTGTCTAACATAAATTAATCTGTGATTTTTATGTACCATTATAGTACTG ACAACAAGTGAACAACATTAATAATGTTTACATGGACACAGTGAAGATGAGTTCTAAAG ATGATACAGTTTGGCAAAAGAACATACTGGCTAAGGATTACTACAGTTAACATAAGGGA CAGTAAAACGATGGCAAAACAGGATTTGATACCACATTTACAAAGTAAAAGCATGCACT GTTAATACACTTTAAATGTTTCTCAACAGAAAAGGCCATGAAGATGAAAAACAAGAGGCA CCATGTACAAAACCTCCCTATAACTGAGACAAAACAAGCAAGAATCAAAGTGGTCAATTTAG TAAATATGTAGCAGCAAAGTCACTGGTTCTGTTTGGAAATTTAGCAATTTGCATTTCTGAT TGGCAGCTGCCCTGGGTGTGTCTGTATCCAAGAAGCTGACTTTATCATACTACATCAGCA GTAATTTGGTAATCTGCACAAACAAGGTTAACCTTCAACCATAAGCTTAAAGAAAAGAGA GAACTAGAATCTTATTGCAGAAGTTTCCAATGNTATTACCATATGAAACCAATATGGTA CTTTGAGCAGGATAATAACATAAATTTCAATTTAAAAAGTTGATTTATAGCCCCAGTAAC CGGAAAAGATTATAAGTAATTATGGAAAGTTTATATTCTGACCATACCACGAGTTAAAAA CAAAGAGTTTCTACTAAAGAGAATTTTTCAAGAAGATCTTGTCCATCATGTGCATAGT AAGATAGTTGTTTTAATAAAATCCTTTGCAATAAAGAAATAAATTTAAAGTATTCT TTCTTGAGGNACNCCTAAA
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_006496
<b>Insert Size:</b>	2660 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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>

RefSeq: [NM\\_006496.1](#), [NP\\_006487.1](#)

RefSeq Size: 3143 bp

RefSeq ORF: 1065 bp

Locus ID: 2773

UniProt ID: [P08754](#)

Cytogenetics: 1p13.3

Domains: G-alpha

Protein Families: Druggable Genome

Protein Pathways: Axon guidance, Chemokine signaling pathway, Gap junction, Leukocyte transendothelial migration, Long-term depression, Melanogenesis, Progesterone-mediated oocyte maturation, Tight junction

Gene Summary: Guanine nucleotide-binding proteins (G proteins) are involved as modulators or transducers in various transmembrane signaling pathways. G proteins are composed of 3 units: alpha, beta and gamma. This gene encodes an alpha subunit and belongs to the G-alpha family. Mutation in this gene, resulting in a gly40-to-arg substitution, is associated with auriculocondylar syndrome, and shown to affect downstream targets in the G protein-coupled endothelin receptor pathway. [provided by RefSeq, Jun 2012]