

Product datasheet for **SC320804**

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_006496.1
 AGCTGACGGAGAGGGCCACCGCCAGCAATAGACGGTGCCTCAGCCTGCCGAGCCGCAGT
 TTCCGTGGTGTGAGTGAGTCCGGGCCCGTGTCCCTCTCCCGCCGCCCATGGGCTGCA
 CGTTGAGCGCCGAAGACAAGGCGGCAGTGGAGCGAAGCAAGATGATCGACCGCAACTTAC
 GGGAGGACGGGGAAAAAGCGCCAAAGAAGTGAAGCTGCTGCTACTCGGTGCTGGAGAAT
 CTGGTAAAAGCACCATTGTGAAACAGATGAAAATCATTTCATGAGGATGGCTATTCAGAGG
 ATGAATGTAACAATATAAAGTAGTTGTCTACAGCAACTACTATACAGTCCATCATTGCAA
 TCATAAGAGCCATGGGACGGCTAAAGATTGACTTTGGGGAAGCTGCCAGGCAGATGATG
 CCCGGCAATTATTTGTTTTAGCTGGCAGTGTGAAGAAGGAGTCACTGACTCCAGAACTAG
 CAGGAGTGATTAACGGTTATGGCGAGATGGTGGGGTACAAGCTTGCTTCAGCAGATCCA
 GGGAAATACAGCTCAATGATTCTGCTTCATATTCTAAATGATCTGGATAGAATATCCC
 AGTCTAACTACATTCCAACCTCAGCAAGATGTTCTTCGGACGAGAGTGAAGACCACAGGCA
 TTGTAGAAACACATTTACCTTCAAAGACCTATACTTCAAGATGTTTGATGTAGGTGGCC
 AAAGATCAGAACGAAAAAAGTGGATTCACTGTTTTGAGGGAGTGACAGCAATTATCTTCT
 GTGTGGCCCTCAGTGATTATGACCTTGTCTGGCTGAGGACGAGGAGATGAACCGAATGC
 ATGAAAGCATGAAACTGTTTGACAGCATTGTAATAACAATGGTTTACAGAAACTTCAA
 TCATTCTTCTTAAACAAGAAAGACCTTTTTGAGGAAAAATAAAGAGGAGTCCGTTAA
 CTATCTGTTATCCAGAATACACAGGTTCCAATACATATGAAGAGGCAGCTGCCTATATTC
 AATGCCAGTTTGAAGATCTGAACAGAAGAAAAGATACCAAGGAGATCTATACTCACTTCA
 CCTGTGCCACAGACACGAAGAATGTGCAGTTTGTGTTTGTGCTGTTACAGATGTCATCA
 TAAAAACAACCTAAAGGAATGTGGACTTTATTGAGAAGCATGGATGTTAGTGAAAGTTA
 GTACAGTGTGGAGTGTGAGACCAGACACCTTTTGTCTCATGGGGCAGCTACAAGCA
 TGAACGGGACCAGGGAATGGCAGCAGCATGCAGAATCTTAGCACTTTTAGCACAATAATT
 TTGTATTAGGGAACCTTTAATTGACATGAGATGCTAAAGTCAGACATTGGAATTGGAAGA
 ACTATAAAGTGTGATTTCGATCGTCAAGACATCACTTGGATTTCTTAATCTTAAATGCTTA
 TGGAAGATGTGAAGTTGAGGTGCTGCATTCTAGAACTTCAATATGTAGCTTACTTTTTT
 TTCCCCCTTCTTAAACCACCAGTGGTTCATTTTTAAGTTTTTTCATCAAGAGAAGAA
 AACTTTACTAAATTTTATTTCTTTATTTGCAAAAAGAACTTTTATTAACAACAACATCTT
 AACTATGCACATGATGTGACCAGATCATCTTGAAAATATCTCTTTAGTAGGAACCTCTT
 TGTTTTAACTCTTGGTATGGTCAGAATATAACTTCCATAATTAATTATAATCTTTTC
 CGGTTACTGGGGCTATAAATACAACCTTTTTAAATGAAATTTATGTTATTATCCTGCTCAA
 AGTACCATTATGTTTTCCATATGGTAATTACATTGGAAGTTCTGCAATAAGATTCTAGT
 TCTCTTTTTCTTAAAGCTTATGGTTGAAGTTAACCTTGTGTTGTGCAGATTACCAAATT
 ACTGCTGATGTAGTATGATAAAGTCAGCTTCTGGATACAGACACACCCAGGGCAGCTGC
 CAATCAGAAATGCAAAATGCTAAATCCAAACAGAACCAGTGACTTTGCTGCTACATATT
 TACTAAATGACCACTTTGATTCTTGTCTGTTGTCTCAGTTATAGGGAGTTTTGTACAT
 GGTGCCTCTGTTTTCCATCTTCATGGCCTTTTCTGTTGAGAAACATCTAAAGTGTATTA
 ACAGTGCATGCTTTTACTTTGTAATGTGGTGCCAAATCCCTGTTGCCATCGTTTTTAC
 TGTACCGATGTTAACTGTAGTAATCCTTAGCCAGTATGTTCTTTTGTCTGAAACTGTTGCA
 TTTTGGGACTTTTTCCACTTTGTGATGTACATTTTTAATCTGTTATAGTTGGCGGCA
 GTATTAATAATGGTGAGTAAAGAGCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
 AAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_006496

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:	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]