

## Product datasheet for SC118852

### GNAZ (NM\_002073) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GNAZ (NM_002073) Human Untagged Clone
Tag:	Tag Free
Symbol:	GNAZ
Synonyms:	gz-alpha
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118852 sequence for NM_002073 edited (data generated by NextGen Sequencing)

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ATGGGATGTCGGCAAAGCTCAGAGGAAAAAGAAGCAGCCCGCGGTCCCGGAGAATTGAC
CGCCACCTGCGCTCAGAGAGCCAGCGGCAACGCCGCAAATCAAGCTGCTCCTGCTGGGC
ACCAGCAACTCAGGCAAGAGCACCATCGTCAAACAGATGAAGATCATCCACAGCGCGGC
TTCAACCTGGAGGCTGCAAGGAGTACAAGCCCCTCATCATCTACAATGCCATCGACTCG
CTGACCCGCATCATCCGGGCCCTGGCCGCCCTCAGGATCGACTTCCACAACCCCGACCGC
GCCTACGACGCTGTGCAGCTCTTTGCGCTGACGGGCCCGCTGAGAGCAAGGGCGAGATC
ACACCCGAGCTGCTGGGTGTCATGCGACGGCTCTGGCCGACCCAGGGGCACAGGCCTGC
TTCAGCCGCTCCAGCGAGTACCACCTGGAGGACAACGCGGCCTACTACCTGAACGACCTG
GAGCGCATCGCCGAGCTGACTATATCCCCTGTCGAGGACATCCTGCGCTCCCGGGAC
ATGACCACGGGCATTGTGGAGAACAAGTTCACCTTCAAGGAGCTCACCTTCAAGATGGTG
GACGTGGGGGGGAGAGGTCAGAGCGCAAAAAGTGGATCCACTGCTTCGAGGGCGTCACA
GCCATCATCTTCTGTGTGGAGCTCAGCGGCTACGACCTGAAACTCTACGAGGATAACCAG
ACAAGTCGGATGGCAGAGAGCTTGGCCTCTTTGACTCCATCTGCAACAACAACCTGGTTC
ATCAACACCTCACTCATCCTCTTCTGAACAAGAAGGACCTGCTGGCAGAGAAGATCCGC
CGCATCCCGCTCACCATCTGCTTTCCCGAGTACAAGGGCCAGAACACGTACGAGGAGGCC
GCTGTCTACATCCAGCGGAGTTTGAAGACCTGAACCGCAACAAGGAGACCAAGGAGATC
TACTCCCACTTACCTGCGCCACCGACACCAAGTAAACATCCAGTTTGTCTTCGACGCGGTG
ACAGACGTCATCATACAGAACAATCTCAAGTACATTGGCCTTTGCTGA

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Clone variation with respect to NM\_002073.2



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_002073 unedited          TAATACGACTCACTATAGGGCGGCCGACATTCGCACGAGGGGCGCTGGGGCAGGGGCT          GCAGTGTGGCTCGGCCTACCCCCCTGTGGCACTGAGTGCCTCCAGGGCAGCTGGGCTC          TTGTCTGCCTGGTCTCAGTTGTCCCCTGTGGCAAGAGGGAGAGGTGCCCATCCCCGTCT          CCTTGTCTGGGCCCGTCTGCCAGACCATGGGATGTCGGCAAAGCTCAGAGGAAAAAGA          AGCAGCCCGCGGTCCCCGAGAATTGACCGCCACCTGCGCTCAGAGAGCCAGCGGCAACG          CCGGAAATCAAGCTGCTCCTGCTGGGCACCAGCAACTCAGGCAAGAGCACCATCGTCAA          ACAGATGAAGATCATCCACAGCGCGGCTTCAACCTGGAGGCCTGCAAGGAGTACAAGCC          CCTCATCATCTACAATGCCATCGACTCGCTGACCCGCATCATCCGGGCCCTGGCCGCCCT          CAAGATCGACTTCCACAACCCCGACCGCGCTACGACGCTGTGCAGCTCTTTGCGCTGAC          GGGCCCCGCTGAGAGCAAGGGCGAGATCACACCCGAGCTGCTGGGTGTCATGCGACGGCT          CTGGGCCGACCCAGGGGCACAGGCTGCTTCCAGCCGCTCCAGCGAGTACCACCTGGAGGA          CAACGCGGCTACTACCTGAACGACCTGGAGCGCATCGCCGAGCTGACTATATCCGCAC          TGTCGAGGACATNCTGCGCTCCCGGACATGACCACGGGATTGTGGAGAACAAGTTACC          TTCAAGAGCTCACCTTTCAGATGTGGACGTGGGGTGGCATAGGTCAAAGCGCAAAAGTGG          ATCCACTGCTCNGAGGGGTCAAGCCATCATCTTCTGTGGTGAAGTCAACGGCTCGACCT          GAACTCTTACGAGATACCANACTAGTCGTGGCAAAAAGCTTGGCGTTTTTACTCATTTG          AA</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_002073 unedited          GGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTCCTTCAGGGTATTTTATTTTCT          TAAAGTAAACAACCTTTGACTTTCATCCAATCCCAGCTTCTCTTCCCCGTACATCTC          TTCACGTCCTTGGCTGTGATTCCGCACACTGACCTCGGACACACAGCTACTGCACGGAGA          GAGGGAGGGAGATCTGGCAAGGGCTCCGGCAGTGCCTCTCCTCTCCATGGCGCAGTTCGT          ATTTACACACGGCCCTTGGCGAACGTCCTTTCAACGCAGTTGCCCATAGGCCCTGGGACA          GGAAGGCCAGATCAGGGTCCCAGCAGGGCCTCCCTCAGGCCACAACGCTGGCTGTGCCT          TCACAGGAGTCAGAGCATTTCCAGCCAGTCTCAGGCGCGGGGCATGCTGGGACCAGGGGC          ACCACCCCTTGCTCCCCTTCCCTCACTCAGCAAAGCCACAATAATTTACTCTTTAAATA          CCAAGACACTTAGCTATTGTTTCTTTGCTCCCAGGTGAAAGAACCTTCTTTAAATATGTC          GTGTTTTATTTTCTAAATAAAAAACAAAGCAGAAAACCCACCATTAAACAAGAGGACTG          CAGAGGCTTATGTACAACACGTTGCCCGGAGGCTGGCGCAGGACTGCCACTCACCCTCAA          AATTTCTTTGGAGCAGAGAGACAGATCGTCCAGAAACAATTTTACTACTAGCCAGCCAG          ACACAAAAAAGACCACCTGAANAAAAAATGTTTTGAAAACTGCAATTTAAAAAAGATACT          CACCTGCATTTGAAATTTCTGGATTTTTTCTGCGAAACACCCGAGAATTGGCCAAAAGA          AAAACAACCAGAAAACAAACAAAATGCCGAGAGGAAACCCAGTTTGATTATAAACC          TCCCCTTCGAGAAACTGGAAATCCCCTGCCTATTGAAAAACGGCCCTCCCTCGCTGTAT          GT</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_002073
<b>Insert Size:</b>	2870 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).

**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\\_002073.2](#), [NP\\_002064.1](#)

**RefSeq Size:** 3225 bp

**RefSeq ORF:** 1068 bp

**Locus ID:** 2781

**UniProt ID:** [P19086](#)

**Cytogenetics:** 22q11.22-q11.23

**Domains:** G-alpha

**Protein Families:** Druggable Genome

**Protein Pathways:** Long-term depression

**Gene Summary:** The protein encoded by this gene is a member of a G protein subfamily that mediates signal transduction in pertussis toxin-insensitive systems. This encoded protein may play a role in maintaining the ionic balance of perilymphatic and endolymphatic cochlear fluids. [provided by RefSeq, Jul 2008]