

## Product datasheet for **MC202370**

### Gnai3 (NM\_010306) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gnai3 (NM_010306) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gnai3
Synonyms:	A1158965; AW537698; Galphai3; Gnai-3
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC041107 sequence for NM\_010306  
 GCGATTCCCGCGGTGTGTGTGAGTGAGCCCGGGCCCGGTCCCCTCTCCCGCCGCCCATGGGCTGCACG  
 TTGAGCGCCGAGGACAAGGCGGCGGTGGAGCGGAGCAAGATGATCGACCCGCAACTTGCGGGAGGACGGGG  
 AGAAAGCGGCCAAAGAAGTGAAGCTGCTGCTGCTCGGCGCTGGAGAATCTGGTAAAAGTACCATCGTGAA  
 ACAGATGAAAATCATTATGAGGACGGCTATTCAGAGGACGAATGTAACAGTATAAAGTAGTTGTCTAC  
 AGCAATACTATTACAGTCCATCATTGCAATCATAACGAGCCATGGGACGGTTGAAGATTGATTTTGGGGAAT  
 CTGCCAGAGCAGATGATGCCCGACAGTTATTTGTTTTAGCTGGGAGTGTGAAGAAGGATCATGACTTTC  
 AGAACTAGCAGGCGTGATTAACGTTTTATGGCGAGATGGCGGGTACAGGCATGCTTTAGCAGTCCAGG  
 GAATATCAGTCAATGATTCTGTTCTACTACTAAATGATTTGGATAGAATATCCCAGACCAACTACA  
 TTCCAACCTCAGCAAGATGTTCTTCGACAAAGAGTGAAGACTACAGGCATTGTGGAGACCCACTTCACCTT  
 CAAGGAACTCTACTTCAAATGTTTGTAGGTGGCCAAAGATCCGAACGAAAAAGTGGATTCACTGT  
 TTTGAGGGAGTGACAGCAATTATCTTTGTGTGGCTCTCAGTGATTACGACCTTGTCTGGCTGAGGATG  
 AGGAAATGAACCGAATGCATGAAAGCATGAAATGTTTGACAGCATTGTAAACAACAAATGGTTTACAGA  
 CACTTCAATCATTCTCTTTCTTAATAAGAAAGACCTTTTTGAGGAAAAATAAAGAGGAGTCCATTAACA  
 ATCTGTTATCCAGAATACACAGGTTCCAATACATACGAAGAGGCAGCTGCTTACATTCAGTGCCAGTTTG  
 AAGATCTGAACCGAAGAAAGATACCAAGGAGGTCTACACTCACTTCACCTGTGCCACAGACACCAAAAA  
 TGTGCAGTTTGTGTTTGTGCTGTTACGGATGTCATCATTAAAAACAACCTTAAAGGAATGTGGGCTTTAT  
 TGAGAGGATGGCATAAGTAAAAGCTATTACAGGGAGGAGTGTGAGACCAGATGTCATCTACTGTCTCTTG  
 GGTGAGCAGCAGCATGACAGGACCAAGGAATGGCAGCAACACGCAGAATCTTAGCTAGCGCTCTCCAGC  
 AGTCTTCTCTATTAGGGAATGTCTAATTTGGCATGAGATGTTCAAATCAGACCTGGGATTGGACAACCTGTA  
 AAGTATGACTGGATCGTCAGGGCGTTCGCTTGGACTCTGTAATCTAATGTTTAGGGCATATTGAAGTTGAG  
 GTGCTGCCTTCCAGAACTTAAACATGAGCTCACTTTCCCATCTTTTGCAGAAATGACCAGTAGTTAA  
 TTTCTAAGTTTTTTCTTATCAAGAGAAGAATACTTAAAAACTTCTCCTGTTTGCAGAAAGAACTCTGA  
 GGACTAGTCTTAACTATGCACACAATGTACCAGACATCTTGAACACTTCTCCTTAGTAGGAACCTGTT  
 TGTTTTAACTCTTGAATGGTCCGGAGTAATATTTCAATAAATAAAAATCTTCTGTTATTGGGACTA  
 TATTAATAGAGCTTTTCGGAATGAAATTTATGTTACTGTGATGTTTAAAGTACCACAATGGTTTCTAAAC  
 AGCATTACCTTGGAGAGTTCTACAGTACGATTCTGCTCTCATTGCTTACGCTTACGTTTGAAGTTG  
 TATTTGTCCGGGTTAACCTTGTGTTGTGCTGATTACCAAATTAAGTGAATACTGATGATGAGTGTGTTAA  
 ACTGCTTCTTGGACACACGAGGATAGCCGTCAATGAGATGCAGATGCTAAATTGAGAACCAGTGGCTTG  
 CTGCTACAGGCTACTAAGTTGACCACATGGAATCTTGCCTGTTGTCTCGGTGATGGGAGTTTTGAA  
 TAAGATGCCCTTGTGTTTCCATCTTCGTGGCCTTTTTGTTAGGAGACATCTAAAAGTGTATTAACAGTG  
 CATGCTTTTCTTGTAAATGTGGTGCCAAATCCCTGTTTGCATCGTTTTACTGTAGCAATGTTAACT  
 GTAGTAGTAGTCTTACTATATTCTTTTTCTAAAACCTTGCAATTTGGGACTTTTTCCACCTTGTCTGTGA  
 CAGATTTGAATCTGTTACAGTTGGCAGCAGTATTAACAACAACCGGTGAGTGAAGAGCCTACGGTTGCTCC  
 GTGCATAACTAGTTCTTCTGGGATCCTGTCTGCTCTTTTTTCCCCTGACCTCTGTCTGAGAGTGGAT  
 TTATTAGGTAGAAAAGTGTCTTTGAAAGCTAGCTCCTTGATGTAATAGTATTACCAAGTCAAGACTGAG  
 GGCTTTATGTGCAGTCCGTGTACAAGAGGAAAGTACAATCCGGCTTTCCGGATGTGTACAGTTTGTCTGT  
 GCTGAGAGCTACAGTCTTTTGTACAGTATATCAAATGTCATTAACACTGAGTGGACACTGAGGGAC  
 AGCAACAATGCATTTGGAGCATTTCAGATCAGTAGTTTGTAGTGCCTTTTGGAGTCCAGTCCGCTGTG  
 GCTCGGATCCATTATCTATGTTACCTCCTACTCGTTTTGAAAGAAGGTTGATGGTCAGAACTGCTTCA  
 GAAGCAAGCCACGGTGTGATGAGTCCCTTTGTTGGCAGCTTTTACAATTTTTAATCTTACGTGTTTTGCAA  
 AATCATTATTATGCAGACAGTATAACTGTTATCTTACAAATATTTGTTAGGGCTAGGAAAATGTCACTT  
 GAAAGAAAAGAAAAGTATTGATTTCAATCGGCGATTGACTCAATCCCACAATGTAGGGGCTAATAAGTCT  
 TACTCTGAATTTATCTTCTTTGTTGATTCTGTAATATAAGAACATCTGGTGAATATTGTTTTCATA  
 ATTTTTCTATACTTTGGGTTTAAATAAATGGTGTGATAATCTAAAATATTAGATAATCCAAATTTAATT  
 TTACTTCAGAATGCATTTTGTATTTTCATTTGAATCTGTCTATTTTTTAAACCTTCTGTTAATTAATA  
 TAGAAGTCTTCACTTCTTGTCTCTGCAAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI  
**ACCN:** NM\_010306  
**Insert Size:** 1065 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>
<b>RefSeq:</b>	<a href="#">BC041107</a> , <a href="#">AAH41107</a>
<b>RefSeq Size:</b>	3193 bp
<b>RefSeq ORF:</b>	1065 bp
<b>Locus ID:</b>	14679
<b>UniProt ID:</b>	<a href="#">Q9DC51</a>
<b>Cytogenetics:</b>	3 46.83 cM
<b>Gene Summary:</b>	Heterotrimeric guanine nucleotide-binding proteins (G proteins) function as transducers downstream of G protein-coupled receptors (GPCRs) in numerous signaling cascades. The alpha chain contains the guanine nucleotide binding site and alternates between an active, GTP-bound state and an inactive, GDP-bound state. Signaling by an activated GPCR promotes GDP release and GTP binding. The alpha subunit has a low GTPase activity that converts bound GTP to GDP, thereby terminating the signal. Both GDP release and GTP hydrolysis are modulated by numerous regulatory proteins. Signaling is mediated via effector proteins, such as adenylate cyclase. Inhibits adenylate cyclase activity, leading to decreased intracellular cAMP levels. Stimulates the activity of receptor-regulated K(+) channels. The active GTP-bound form prevents the association of RGS14 with centrosomes and is required for the translocation of RGS14 from the cytoplasm to the plasma membrane. May play a role in cell division.[UniProtKB/Swiss-Prot Function]