

## Product datasheet for **MC205559**

### **Gna13 (NM\_010303) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Gna13 (NM_010303) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gna13
Synonyms:	AU024132; AU043124; Galpha13
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC057665  
 CGCAGGGGCCCGAGGCGGGCGGGCGGCAAGATGGCGGACTTCTGCCGTCCGCTCCGTGCTGTCC  
 GTGTGCTTCCCGGGCTGCGTGCTGACGAACGGCGAGGCCGAGCAGCAGCGCAAGTCCAAGGAGATCGACA  
 AATGCCTGTGCGGGGAGAAGACCTACGTGAAGCGGCTGGTGAAGATCCCCTGCTGGGCGCGGGCGAGAG  
 CGGCAAGTCCACCTTCTGAAGCAGATGCGGATCATCCACGGCCAGGACTTCGACCAGCGCGCGCGAG  
 GAGTTCGCGCCACCATCTACAGCAACGTGATCAAAGGTATGAGGGTCTGGTAGATGCCGAGAGAAGC  
 TTCATATTCCTGGGGAGATAACAAAAACCAGCTCCATGGAGACAAGTTGATGGCATTGATACCCGCGC  
 CCCATGGCTGCCAGGGGATGGTGGAGACTCGAGTGTTCTGCGAGTATCTTCTGCTATCAGAGCCTTA  
 TGGGAGGACAGTGGTATACAGAATGCCTACGATCGGCGCCGGAATTCCAGCTGGGTGAGTCTGTAAGT  
 ATTTCTTGGATAACTTGGATAAACTTGGAGTACCGGATTACATCCATCACAGCAAGATATCCTGCTTGC  
 CAGAAGGCCACCAAAGGCATCCATGAGTACGACTTTGAAATAAAAATGTTCTTTCAAATGGTTGAT  
 GTAGGTGGCCAGAGATCAGAACGGAAACGCTGGTTTGAATGCTTTGACAGTGTGACGTCGATACTTTTCC  
 TTGTCTCTCAAGTGAATTTGACCAGGTGCTTATGGAGGACCGCCAGACCAATCGCCTTACAGAATCTCT  
 GAACATTTTTGAAACAATTGTCAACAATCGGGTTTTGAGCAACGCTCCATAATCCTCTTCTTAAACAAG  
 ACAGACTTGCTCGAGGAGAAAGTCAAGTTGTTAGCATCAAAGACTATTTCTAGATTTGAAAGGGGACC  
 CCCACTGCTTAAGAGACGTCCAAAAGTTTTCTGGTGAATGCTTCCGGGGAAACGCCGGGACCAGCAGCA  
 GAGGCCGTTGTACCACCACTTACCACCGCGATCAACACAGAGAACATCCGCCTCGTGTCCGGGACGCTG  
 AAGGACACGATCCTTCATGACAACCTGAAGCAGCTCATGCTGCGAGTGTGACAAGACTGGCTGTTTTAAT  
 ACCTTGTGTGATTTTGAATGTTTTCTGTTTGTCTTGTGTTTTCTTTAAATGGCAGTTTACAACAGCAG  
 TTAGAAGAATCTCAGTTGTGTGTCTAACTTCTGGAGAACTTAGTTTCACTGTGGCCTTTAGTTTGTG  
 GCTGACAGCTGCTGAATTAACCCATTGCCAATATCTGCTAGAATTTGGGCTTTGATTGGTTTCACTGTGG  
 CTTACCTCAAGTCCAATTATAACTTCTGGCAACCTTACACTAGGTGTTTTTTCAGGCCCTGAATTTCTCA  
 TAACTGTCTGCAGTTCTAAGAATAGGCAGTATCTTTAAGAACTGTAGGGATGAGAGATGAAAATTTCA  
 GCTCTAAAGAGAGAGTGCCTTACCAGCAATGACATGCCTCGCTATGTGAGCCCTGGTCTGGAAAGGGCTG  
 TTAGAGAAAAGTTTTAGGGAGGAGTCTCGGCCACAGAGGCTTGGCCCCACACACACAGCAGTGTGTT  
 GTTTTTCTCAATCTCTTACTTTCTGAAGGTAATGTCTTACTGCTTAAGTTTACAAGATGGATCTCAGCC  
 TGATGCTGATGCGGTCACAAATGGTACATGTGCTATGTTGATCTGAGATGAGCAGTGACACGCGAGTTTCC  
 TTTGCCATACATGCTGTCACTAACTTAATGTGCCATGTTACAACATCTGGAGAGGGCAAGCACCCTGGTG  
 ACGGACATCACCATAGCAGCCCCAGAGTGTGACTTTCTGGTCTGCTCCTTGGACTTTGTGCCTTGCTG  
 GAGGGAACCACTGTTGGGTCTTCTTCTTTGCCCACTGTCTCAACCTCAGCAGCTCTGAACTGTGGTG  
 CTCTCGGGCTTCTTGTCCCGAGAGCTTGGTGGGCGAGCATTTCCCTGTGAACTGTTCAAAAAGGCATC  
 CTTTCAGTACCCTGTCCCTGGTTAGTGTCTCTGTGACAGAGTTTGTATGTGTTGTGTGTGCATCGTG  
 TGTGAGACACAGCTTCATTGAGGTACATTCAAATGTCTTAAGGATGCATCTAAGGATAAGCAATTTTTTT  
 TTTGGCCATACTTAAGGAGGTTTGCCTTACACACACACACACACACACACACATACCATTGCTAAC  
 TTAACCATGCCATGAGGTAGCTTGTGATAAAAACAGTGGCTGGTGTACAAAACCACTTTGGCATGTTT  
 CAACTGGCCTGGGAGTTTGTAGAACCCTGAGCTTGTCCCTGCTGTCCCTGGAGAGCGCAAGAGGGCAGTGA  
 AGCCTGTTTTATGTGTGACTATTCTCAGGCAAGAAATGCGCCCTGAAAGACTGGCTGACTATGAGGCC  
 CAAAAGCAGTGGCTTTCTTCTTTCTTGGTGGAGGGTCCAGAGCTGGGCCCTAGTGTATGTATACTTGA  
 GAGACCTGACTTGTCTGGATTTGAGCTTTCAGTGTCTTCTGGTTATAAAGTCCAGTGTCTTCTGCCT  
 TGGTAATATCATGAGCTTAAGACATGTATGTAGTATCACAGTGCAGGTGTTGTTAGCATAAATCACCAT  
 AATTCATGGTTCTACATCTGGTCTTTTTCTGTCAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI  
**ACCN:** NM\_010303  
**Insert Size:** 1134 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).

<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>	<u><a href="#">BC057665</a></u> , <u><a href="#">AAH57665</a></u>
<b>RefSeq Size:</b>	2779 bp
<b>RefSeq ORF:</b>	1134 bp
<b>Locus ID:</b>	14674
<b>UniProt ID:</b>	<u><a href="#">P27601</a></u>
<b>Cytogenetics:</b>	11 71.88 cM
<b>Gene Summary:</b>	<p>Guanine nucleotide-binding proteins (G proteins) are involved as modulators or transducers in various transmembrane signaling systems (PubMed:21212405, PubMed:19151758, PubMed:16388592). Activates effector molecule RhoA by binding and activating RhoGEFs (ARHGEF1/p115RhoGEF, ARHGEF11/PDZ-RhoGEF and ARHGEF12/LARG) (PubMed:16388592). GNA13-dependent Rho signaling subsequently regulates transcription factor AP-1 (activating protein-1) (PubMed:19151758, PubMed:21212405). Promotes tumor cell invasion and metastasis by activating Rho/ROCK signaling pathway (By similarity). Inhibits CDH1-mediated cell adhesion in process independent from Rho activation (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant 1 represents the longer transcript and encodes the longer isoform (1).</p>