

## Product datasheet for **MR224064**

### Gnao1 (NM\_001113384) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Gnao1 (NM\_001113384) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Gnao1  
**Synonyms:** alphaO; AW050213; Galphao; Gnao  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR224064 representing NM\_001113384  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGGATGACGCTGAGCGCAGAGGAGAGAGCCGCCCTCGAGCGGAGCAAGGCGATTGAGAAAACTCA  
AAGAAGATGGCATCAGCGCCGCAAAGACGTGAAATTACTCTGTGGGGCTGGAGAATCAGGAAAAAG  
CACCATTGTGAAGCAGATGAAGATCATCCATGAAGATGGCTTCTCTGGGAAGACGTGAAGCAGTACAAG  
CCTGTGGTCTACAGCAACACCATCCAGTCTCTGGCGGCCATTGTCCGGGCCATGGACACTTTGGCGGTGG  
AGTATGGTGACAAGGAGAGGAAGACGGACTCCAAGATGGTGTGTGACGTGGTGAGTCGTATGGAAGACAC  
TGAACCGTTCTCTGCAGAACTTCTTTCTGCCATGATGCGACTCTGGGGCGACTCGGGGATCCAGGAGTGC  
TTCAACCGATCTCGGGAGTATCAGCTCAATGACTCTGCCAAATACTACCTGGACAGCCTGGATCGGATTG  
GAGCCGGTACTACCAGCCACTGAGCAGGACATCCTCCGAACCAGAGTCAAAACAACCTGGCATCGTAGA  
AACCCACTTCACCTTCAAGAACCTCCACTTCAGGCTGTTTGACGTCGGGGCCAGCGATCTGAACGCAAG  
AAGTGGATCCACTGCTTTGAGGATGTCAGGCCATCATCTTCTGTGTCGCACTCAGCGGCTATGACCAGG  
TGCTCCACGAGGACGAAACCACGAACCGCATGCACGAATCCCTGAAGCTTTCGACAGCATCTGCAACAA  
CAAGTGGTTCACAGACATCTATTATCTGTTTCTCAACAAGAAGGACATATTTGAGGAGAAGATCAAG  
AAGTCCCCACTCACCATCTGCTTTCTGAATACACAGGCCCAAGTGCCTTACAGAACTGTGGCTCACA  
TCCAAGGGCAGTATGAGAGTAAGAATAAGTCAGCTCACAAGGAAGTCTACAGCCATGTCACCTGTGCCAC  
GGACACCAACAACATCCAATTCGCTTTTGATGCCGTGACAGATGTCATCATCGCCAAAAACCTACGGGGC  
TGTGGACTCTAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR224064 representing NM\_001113384  
 Red=Cloning site Green=Tags(s)

MGCTLSAEERAALERSKAIEKNLKEDGISAAKDVKLLLLGAGESGKSTIVKQMKIIHEDGFSGEDVKQYK  
 PVVYSNTIQSLAAIVRAMDTLGVVEYGDKERKTD SKMVCVVS RMEDTEPFSAELL SAMMRLWGD SGIQEC  
 FNRSREYQLNDS AKYYLDSLDRIGAGDYQPT EQDILRTRVKT TGIVETHFTFKNLHFRLFDVGGQSRERK  
 KWIHC FEDVTAIIFCVALSGYDQVLHEDETTNRMHESLKLFD SICNNKWF TDTSIILFLNKKDIFEEKIK  
 KSPLTICFPEYTGPSAFTEAVAHIQGGYQYESKNKSAHKEYVSHVTCATDTNNIQVFDAVTDVYIIAKNLRG  
 CGLY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

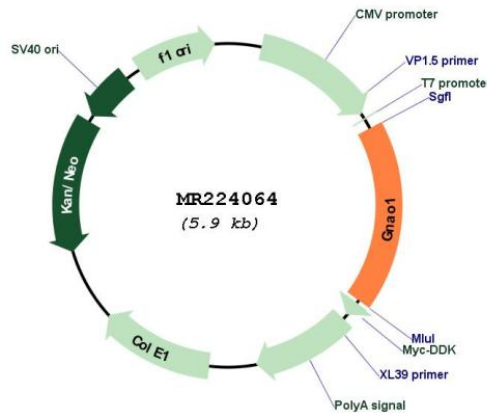
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001113384

<b>ORF Size:</b>	1062 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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="#">NM_001113384.1</a> , <a href="#">NP_001106855.1</a>
<b>RefSeq Size:</b>	6022 bp
<b>RefSeq ORF:</b>	1065 bp
<b>Locus ID:</b>	14681
<b>UniProt ID:</b>	<a href="#">P18872</a>
<b>Cytogenetics:</b>	8 45.94 cM
<b>MW:</b>	40.5 kDa
<b>Gene Summary:</b>	Guanine nucleotide-binding proteins (G proteins) are involved as modulators or transducers in various transmembrane signaling systems. Stimulated by RGS14. The G(o) protein function is not clear.[UniProtKB/Swiss-Prot Function]