

## Product datasheet for RN214090

### Gnai2 (NM\_031035) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gnai2 (NM_031035) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Gnai2
Synonyms:	Galphai2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN214090 representing NM_031035 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGGGCTGCACCGTGAGCGCCGAGGACAAGGCGGCAGCCGAGCGCTCTAAGATGATCGACAAGAACCTGC  
GGGAGGACGGCGAGAAGGCGGCACGGGAGGTGAAGTTGCTTCTGTTAGGTGCTGGAGAATCAGGGAAGAG  
CACCATCGTCAAGCAGATGAAGATCATCCACGAGGATGGCTACTCAGAGGAGGAGTGCCGGCAGTACCGT  
GCGGTTGTCTACAGCAACACCATCCAGTCTATCATGGCCATCGTCAAAGCCATGGCAACCTGCAGATCG  
ACTTTGCTGACCCCGAGCGTGCGGATGATGCCAGGCAGCTGTTCCGACTGTCCTGTGCTGCCGAGGAGCA  
AGGCATGCTTCCGGAAGACCTGTCGGGCGTCATCCGAGGCTCTGGGCTGACCATGGTGTGCAAGCCTGC  
TTTGGCCGCTCACGGGAATATCAACTCAATGACTCAGCCGCTTACTACCTGAATGACCTGGAGCGCATAG  
CACAGAGTGACTATATCCCTACACAGCAGGATGTGCTGCGGACCCGTGTGAAGACCACAGGCATCGTCGA  
AACACACTTCACCTTCAAGGACTTACACTTCAAGATGTTTGATGTGGGTGGTCAGCGATCTGAGCGGAAG  
AAGTGGATCCACTGCTTTGAGGGTGTACGGCCATCATCTTCTGTGTCGCCTTGAGCGCGTACGACTTGG  
TGCTGGCTGAGGATGAGGAGATGAATCGCATGCATGAGAGCATGAAGCTGTTTGATAGCATCTGCAATAA  
TAAGTGGTTCACAGACACCTCCATCATCTCTTCTCAACAAGAAGGACCTGTTTGAAGAGAAGATCACA  
CAGAGCCCCTGACCATCTGTTTCCCTGAGTACACAGGGGCCAACAAGTATGACGAGGCAGCCAGCTACA  
TCCAGAGCAAGTTTGAGGACCTGAATAAACGCAAAGACACCAAGGAGATCTACACGCACTTCACATGCGC  
CACCGACACCAAGAACGTGCAGTTTGTGTTTGTGATGCCGCTACTGACGTATCATCAAGAACAACCTGAAG  
GACTGTGGCCTCTT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: [https://cdn.origene.com/chromatograms/ja1586\\_f08.zip](https://cdn.origene.com/chromatograms/ja1586_f08.zip)



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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_031035
<b>Insert Size:</b>	1068 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>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).</p>
<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="#">NM_031035.3</a></u> , <u><a href="#">NP_112297.1</a></u>
<b>RefSeq Size:</b>	2218 bp
<b>RefSeq ORF:</b>	1068 bp
<b>Locus ID:</b>	81664
<b>UniProt ID:</b>	<u><a href="#">P04897</a></u>
<b>Cytogenetics:</b>	8q32
<b>Gene Summary:</b>	plays a role in prostaglandin (PG)F2alpha activation of ERK1 and ERK2 signaling [RGD, Feb 2006]