

Product datasheet for **RN208034**

Gna13 (NM_001013119) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gna13 (NM_001013119) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Gna13
Synonyms:	Galpha13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN208034 representing NM_001013119 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGACTTCCTGCCGTCGCGCTCCGTGCTGTCCGTGTGCTTCCCGGGCTGCGTGCTGACGAACGGCG
AGGCCGAGCAGCAGCGCAAGTCCAAGGAGATCGACAAATGCCTGTGCGGGGAGAAGACCTACGTGAAGCG
GCTGGTGAAGATCCTGCTGCTGGCGCGGGCGAGAGCGGCAAGTCCACCTTCTGAAGCAGATGCGGATC
ATCCACGCCAGGACTTCGACCAGCGCGCGCGAGGAGTCCGCCCCACCATCTACAGCAACGTGATCA
AAGGTATGAGGGTCTGGTAGATGCCCGAGAGAAGCTTCATATCCCTGGGGAGATAACAAAACCAGGT
CCACGGAGACAAGTTGATGGCATTGATACCCGAGCTCCCATGGCTGCCAGGGGATGGTGGAGACTCGA
GTTTTTTTGCAGTATCTTCTGTATAAGACCTTATGGGATGACAGTGGCATAACAGAATGCCTACGATC
GGCGCCGGGAATCCAAGTGGTGGTCTGTAAGTATTTCTGGATAAATTGGATAAACTGGAGTACC
GGACTACATTCGTCACAGCAAGATATTCTGCTTGCCAGAAGACCCACCAAGGCATCCATGAGTATGAC
TTTGAATTAATAATGTTCTTTCAAATGGTTGACGTAGGTGGCCAGAGATCAGAACGGAAACGTTGGT
TTGAATGCTTTGACAGTGTGACATCAATACTCTTCCTTGTTCCTCAAGTGAATTTGACCAGGTGCTTAT
GGAGACCGCTGACCAACCGCTCACAGAGTCCCTGAACATTTTGAACAATTTGCAATAACCGGTT
TTCAGCAATGTCTATAAATTCTTCTTAAACAAGACAGACTGCTTGGAGAGAAAGTCAAGTTGTAA
GCATCAAAGACTATTTCTAGAATTTGAAGGGGACCCTCACTGCTTAAAGAGACGTCCAAAAGTTTCTGGT
GGAATGCTTCCGGGGAAACGCCGGGACCAGCAGCAGAGGCCGCTGTACCACCACTTCACCACCGCCATC
AACACAGAGAACATCCGCTTGTGTTCCGAGACGTGAAGGACACGATCCTTCATGACAACCTCAAGCAGC
TTATGCTCCAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001013119
Insert Size:	1134 bp
OTI Disclaimer:	<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 custsupport@origene.com 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>
Components:	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:	<ol style="list-style-type: none">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:	<u>NM_001013119.1</u> , <u>NP_001013137.1</u>
RefSeq Size:	1159 bp
RefSeq ORF:	1134 bp
Locus ID:	303634
UniProt ID:	<u>Q6Q7Y5</u>
Cytogenetics:	10q32.1
Gene Summary:	<p>Guanine nucleotide-binding proteins (G proteins) are involved as modulators or transducers in various transmembrane signaling systems (PubMed:12176367). Activates effector molecule RhoA by binding and activating RhoGEFs (ARHGEF1/p115RhoGEF, ARHGEF11/PDZ-RhoGEF and ARHGEF12/LARG) (By similarity). GNA13-dependent Rho signaling subsequently regulates transcription factor AP-1 (activating protein-1) (By similarity). Promotes tumor cell invasion and metastasis by activating RhoA/ROCK signaling pathway (By similarity). Inhibits CDH1-mediated cell adhesion in process independent from Rho activation (By similarity). [UniProtKB/Swiss-Prot Function]</p>