

## Product datasheet for **RR200923**

### Gnai1 (NM\_013145) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gnai1 (NM_013145) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gnai1
Synonyms:	BPGTPB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR200923 representing NM_013145 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGCTGCACACTGAGCGCTGAGGACAAGGCGGCCGTGGAGCGCAGCAAGATGATCGACCGCAACCTCC  
GGGAGGACGGAGAGAAGGCAGCGCGGAGGTCAAGCTGCTGCTGGTGTGGTGAATCCGGGAAGAG  
CACAATTGTGAAGCAGATGAAAATTATCCACGAGGCTGGCTACTCAGAGGAAGAGTGAAGCAGTACAAA  
GCAGTGGTCTACAGCAACACCATCCAGTCCATCATTGCCATCATTAGAGCCATGGGGAGATTGAAAATCG  
ACTTTGGAGACGCTGCTCGTGGATGATGCTCGCCAACCTCTTGTGCTTGTGGGGCTGCAGAGGAAGG  
CTTTATGACCGCGGAGCTCGCCGCGTCATAAAGAGACTGTGGAAGGACAGCGGTGTGCAAGCCTGCTTC  
AACAGATCCCGGGAGTACCAGCTGAACGATTCCGGCGCGTACTACCTGAATGACTTGGACAGAATAGCAC  
AACCAAATTACATCCCAACCCAGCAGGATGTTCTCAGAAGTAGAGTGAACCGGAAATGTGGAAAC  
CCACTTTACTTTCAAAGATCTTCATTTTAAAAATGTTTGACGTGGGAGGCCAGAGATCAGAGCGGAAGAA  
TGGATTCAGTCTTTGAAGGCGTACTGCCATCATCTTCTGTGTGGCCCTGAGTGACTATGACCTGGTTC  
TTGCTGAGGATGAAGAAATGAACCGGATGCATGAAAGCATGAAGCTGTTTCGATAGCATATGTAACAACAA  
GTGGTTTACGGACACATCCATCATCCTTTTCTGAACAAGAAGGACCTCTTGAAGAGAAGATCAAAAAG  
AGTCCCCTCACGATATGCTATCCAGAATATGCAGGCTCAAACACATATGAAGAGGCGGCTGCGTATATCC  
AGTGTGAGTTTGAAGACCTCAATAAAGGAAGGACACAAAGGAAATTTACACCCACTTCACTTGCGCCAC  
GGATACGAAGAATGTGCAGTTTGTGTTTCGATGCTGTAACGGACGTCATCATAAAGAATAACCTAAAAGAC  
TGTGGTCTCTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR200923 representing NM\_013145  
Red=Cloning site Green=Tags(s)

MGCTLSAEDKAAVERSKMIDRNLRDGEKAAREVKLLLLGAGESGKSTIVKQMKIHEAGYSEEECKQYK  
 AVVYSNTIQSIIAIIIRAMGRKIDFGDAARADDARQLFVLGAAEEGFMTAELAGVIKRLWKDSGVQACF  
 NRSREYQLNDSAAYYLNDLDRIAQPNYIPTQDVLTRVKTGTGIVETHFTFKDLHFKMFDVGGQRSERKK  
 WIHCFEGVTAIIFCVALSVDYDLVLAEDEEMNRMHESMKLFDSICNNKWFDTTSIILFLNKKDLFEKIKK  
 SPLTICYPEYAGSNTYEEAAAYIQCFEDLNKRKDTKEIYTHFTCATDTKNVQFVFDVAVTDVVIKNNLKD  
 CGLF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja3791\\_g07.zip](https://cdn.origene.com/chromatograms/ja3791_g07.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_013145

**ORF Size:** 1062 bp

**OTI Disclaimer:** 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. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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:**

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:** [NM\\_013145.1](#), [NP\\_037277.1](#)

**RefSeq Size:** 1945 bp

**RefSeq ORF:** 1065 bp

**Locus ID:** 25686

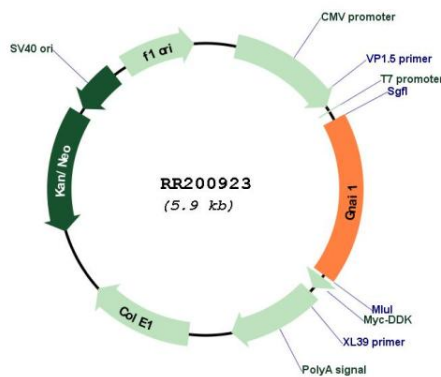
**UniProt ID:** [P10824](#)

**Cytogenetics:** 4q11

**MW:** 40.3 kDa

**Gene Summary:** plays a role in presynaptic inhibition and regulation of synaptic transmission [RGD, Feb 2006]

**Product images:**



Circular map for RR200923