

Product datasheet for **RR203506**

Gnai3 (NM_013106) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gnai3 (NM_013106) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gnai3
Synonyms:	GIP3A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR203506 representing NM_013106 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCTGCACGTTGAGCGCCGAGGACAAGGCGCGGTGGAGCGGAGTAAGATGATCGACCGCAACTTGC
GGGAGGACGGAGAGAAAGCGCCAAAGAAGTGAAGCTGCTGCTCGGCGCTGGAGAATCTGGTAAAAG
TACTATTGTGAAACAGATGAAAATCATTATGAGGATGGCTATCCGAGGACGAGTGAAGCAGTATAAA
GTTGTCGCTACAGCAATACCATTCACTCCATCATTGCAATCATAAGAGCCATGGGACGGTTGAAGATTG
ATTTTGGGAAGCTGCCAGAGCGGATGATGCCGACAGTTATTTGTTTTAGCTGGCAGTGTGAGGAAGG
AGTCATGACTTCAGAAGTACGAGCGTGATTAACGTTTATGGCGAGATGGCGGGTGCAGGCATGCTTC
AGCAGGTCCAGGGAATATCAGCTCAATGATTCTGCTTCATATTACCTAAATGATTTGGATAGAATATCCC
AGACCAACTACATTCCAAGTCAAGATGTTCTTCGACGAGAGTGAAGACTACAGGCATTGTGGAGAC
CCACTTCACTTCAAGGAGCTCTACTTCAAAATGTTTGTAGTGTAGGTGGCCAAAGATCCGAACGAAAAAG
TGGATCCACTGTTTTGAGGGAGTGACAGCAATTCTTTTGTGTGGCTCTCAGTGATTACGACCTTGTTCT
TGGCTGAGGACGAGGAAATGAACCGAATGCATGAAAGCATGAAATGTTTGCAGCATTGTGAACAACAA
ATGTTTTACAGACACTTCAATCATTCTCTTCTTAATAAGAAAGACCTTTTTGAGGAAAAATAAAGAGG
AGTCCATTAACAATCTGTTATCCAGAATACACAGGTTCCAATACGTACGAAGAGGCAGCTGCTTACATCC
AGTGCCAGTTTGAAGATCTGAACCGAAGAAAGGACACCAAGGAGGTCTACACTCACTTTACCTGTGCCAC
TGACACCAAAAACGTGCAGTTTGTGTTTTGATGCTGTTACAGATGTCATCATTAAAAACAACCTTAAAGGAA
TGTGGGCTTTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR203506 representing NM_013106
Red=Cloning site Green=Tags(s)

MGCTLSAEDKAAVERSKMIDRNLRDGEKAAKEVKLLLLGAGESGKSTIVKQMKIIHEDGYSEDECKQYK
 VVVYSNTIQSIIAIIIRAMGRLKIDFGEAARADDARQLFVLGSAEEGVMTELAVIKRLWRDGGVQACF
 SRSREYQLNDSASYLLNDLDRISQNTNYIPTQDVLTRVKTGTGIVETHFTFKELYFKMFDVGGQSRERKK
 WIHCFEGVTAIIFCVALSVDYLVAEDEEMNRMHESMKLFDSICNNKWFDTTSIILFLNKKDLFEKIKR
 SPLTICYPEYTGSNTYEEAAAYIQCFEDLNRRKDTKEYVTHFTCATDTKNVQFVFDVAVTDVVIKNNLKE
 CGLY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja3315_e05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_013106

ORF Size: 1062 bp

OTI Disclaimer: 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.

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_013106.1](#), [NP_037238.1](#)

RefSeq Size: 3072 bp

RefSeq ORF: 1065 bp

Locus ID: 25643

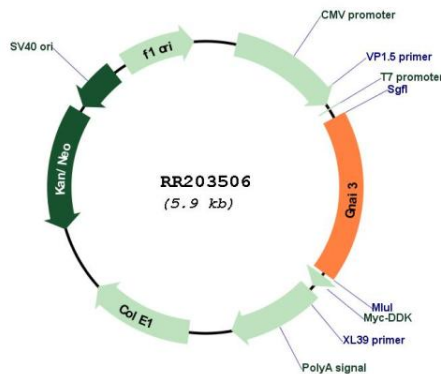
UniProt ID: [P08753](#)

Cytogenetics: 2q34

MW: 40.5 kDa

Gene Summary: has GTPase activity; involved in zymogen granule-plasma membrane fusion in pancreatic cells [RGD, Feb 2006]

Product images:



Circular map for RR203506