

Product datasheet for **RR203517**

Gnaz (NM_013189) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Gnaz (NM_013189) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Gnaz
Synonyms: GXA
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RR203517 representing NM_013189
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGATGTCGGCAAAGCTCAGAGGAAAAAGGGCAGCGCGGGTTCGAGGAGAATTGACCGCCACCTGC
GCTCGGAGAGCCAGCGGCAGCGCGTGTAGATCAAATTCTCTGCTGGGCACCAGCAACTCGGGCAAGAG
CACCATCGTCAAGCAGATGAAAATCATCCACAGCGGTGGTTTCAACCTGGAGGCTGCAAGGAGTACAAG
CCCCTCATCATCTACAACGCCATCGACTCGCTGACCCGCATCATTGGGCCCTGGCTGCCCTGAAGATTG
ATTTCCACAACCCTGACCGTGCCTACGACGCCGTGCAGCTCTTTGCCCTGACTGGCCGGCAGAGAGCAA
GGGTGAGATCACGCCGAGCTGCTGGGTGTCATGCGACGGCTCTGGGCTGACCCGGGGCCAGGCTGC
TTCGGCCGCTCCAGCGAGTACCACCTGGAGGACAACGCCGCTTACTACCTGAATGACCTGGAGCGCATCG
CGGCGCCCGACTATATCCCCACGGTGGAGGACATCCTGCGCTCTCGGGACATGACCACGGGCATTGTGGA
AAACAAGTTCACCTTCAAGGAGCTTACCTTCAAGATGGTGGATGTGGGAGGGCAGAGGTCAGAGCGCAA
AAATGGATCCACTGCTTTGAGGGCGTGACGGCCATCATCTTGTGTGGAGCTCAGTGGCTATGACCTGA
AGCTTTATGAGGACAACCAGACGAGCCGAATGGCGGAGAGCTGCGTCTTTTTGACTCCATCTGCAACAA
CAACTGGTTCATCAACACCTCCCTCATCTCTTCTGAACAAGAAGGACCTCCTGTCGGAGAAGATTCCG
CGTATCCCGCTCAGCGTCTGCTTCCCGAGTACAAGGGTCAGAACACGTACGAGGAAGCCGCGGTACA
TCCAGCGTCAGTTCGAGGACCTAAACCGAAACAAGGAGACCAAGGAGATCTACTCGCACTTACCTGTGC
CACCGACACCAAGTAAATCCAGTTTGTCTTCGACGCAGTGACAGATGTCATCATAAGAACAATCTCAAG
TACATTGGCCTTTGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RR203517 representing NM_013189
 Red=Cloning site Green=Tags(s)

MGCRQSSEEKEAARRRRIDRHLRSESQRQRREIKLLLLGTSNSGKSTIVKQMKIIHSGGFNLEACKKEYK
 PLIIYNAIDSL TRIIRALAALKIDFHNPDRAYDAVQLFALTGPAESKGEITPELLGVMRRLWADPGAQAC
 FGRSSEYHLEDNAAYYLNDLERIAAPDYIPTVEDILRSRDMTTGIVENKFTFKELTFKMDVVGQSRERK
 KWIHC FEGVTAIIFCVELSGYDLKLYEDNQTSRMAESLRLFDSICNNNWFINTSLILFLNKKDLLSEKIR
 RIPLSVC FPEYKGQNTYEEAAVYIQRFEDLNRNKETKEIYSHFTCATDTSNIQVFDAVTDVVIQNNLK
 YIGLC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja3790_b05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_013189

ORF Size: 1065 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_013189.2](#), [NP_037321.1](#)

RefSeq Size: 1529 bp

RefSeq ORF: 1068 bp

Locus ID: 25740

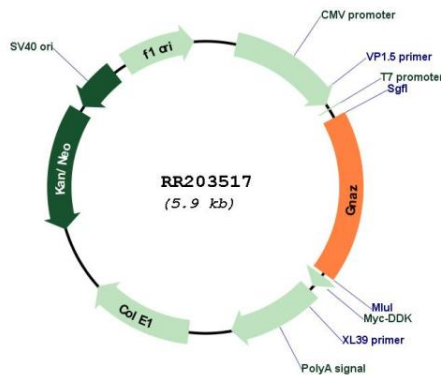
UniProt ID: [P19627](#)

Cytogenetics: 20p12

MW: 40.9 kDa

Gene Summary: member of a family of G-protein alpha subunits; may have pertussis toxin-insensitive activity [RGD, Feb 2006]

Product images:



Circular map for RR203517