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Product datasheet for MR205409

Gnaz (NM_010311) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gnaz (NM_010311) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gnaz
Synonyms:	AI847979; Gz
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR205409 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGATGTCGGCAAAGCTCAGAGGAAAAAGAGGCAGCGAGGCGGTCCCGGAGAATTGACCGCCACCTGC
GCTCCGAAAGCCAGCGGCAGCGCCGTGAAATCAAACTTCTCCTGCTGGGCACCAGCAACTCGGGCAAGAG
CACCATCGTCAAGCAGATGAAGATCATCCACAGCGGGGGCTTCAACCTGGACGCCTGCAAGGAGTACAAG
CCCCTCATCATCTACAACGCCATCGACTCGCTGACCCGGATCATCCGGGCCCTGGCTGCCCTCAAGATCG
ATTTCCACAACCCTGACCGTGCCTACGACGCTGTGCAGCTCTTTGCTCTGACTGGCCCAGCAGAGAGCAA
GGGTGAGATTACACCTGAGCTGCTGGGTGTCATGCGACGGCTCTGGGCTGACCCAGGGGCCCAGGCCTGC
TTTGGCCGCTCTAGCGAGTACCACCTGGAGGACAATGCAGCCTACTACCTGAACGACCTGGAGCGCATCG
CAGCGCCCGACTACATCCCCACGGTGGAGGATATCCTACGCTCCCGGGACATGACCACGGGCATTGTGGA
GAACAAGTTCACCTTCAAGGAGCTTACCTTCAAGATGGTGGACGTGGGCGGGCAGAGGTCAGAACGCAAA
AAGTGGATCCATTGCTTTGAAGGCGTCACAGCCATCATCTTCTGTGTGGAGCTCAGTGGCTATGACCTGA
AGCTCTATGAGGACAACCAGACGAGCCGGATGGCGGAGAGCCTGCGCCTCTTTGACTCCATCTGCAACAA
CAACTGGTTCATCAACACCTCGCTCATCCTCTTCCTGAACAAGAAGGACCTCCTGGCAGAGAAGATCCGG
CGTATCCCGCTCAGCGTCTGCTTCCCAGAGTACAAGGGTCAGAACACGTACGAGGAAGCCGCGGTCTACA
TCCAACGTCAGTTCGAGGACCTCAACCGCAACAAGGAGACCAAGGAGATCTATTCGCACTTCACTTGTGC
CACCGACACCAGTAACATCCAGTTTGTGTTTGACGCAGTGACAGATGTCATCATACAGAACAATCTCAAG
TACATCGGCCTTTGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

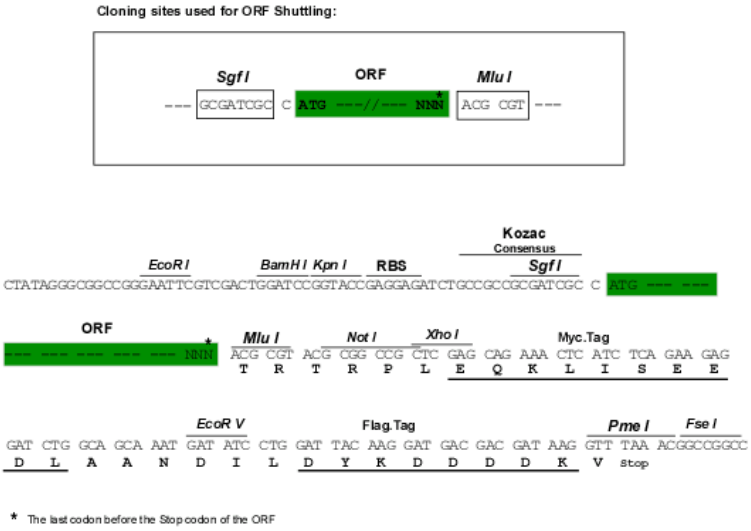
>MR205409 protein sequence
Red=Cloning site Green=Tags(s)

MGCRQSSEEKEAARRSRRIDRHLRSESQRQRREIKLLLLGTSNSGKSTIVKQMKIIHSGGFNLDACKEYK
PLIIYNAIDSLTRIIRALAALKIDFHNPDRAYDAVQLFALTGPAESKGEITPELLGVMRRLWADPGAQAC
FGRSSEYHLEDNAAYYLNDLERIAAPDYIPTVEDILRSRDMTTGIVENKFTFKELTFKMVDVGGQRSERK
KWIHCFEGVTAIIFCVELSGYDLKLYEDNQTSRMAESLRLFDSICNNNWFINTSLILFLNKKDLLAEKIR
RIPLSVCFPEYKGQNTYEEAAVYIQRQFEDLNRNKETKEIYSHFTCATDTSNIQFVFDAVTDVIIQNNLK
YIGLC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_010311

ORF Size: 1068 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_010311.4

RefSeq Size: 2435 bp

RefSeq ORF: 1068 bp

Locus ID: 14687

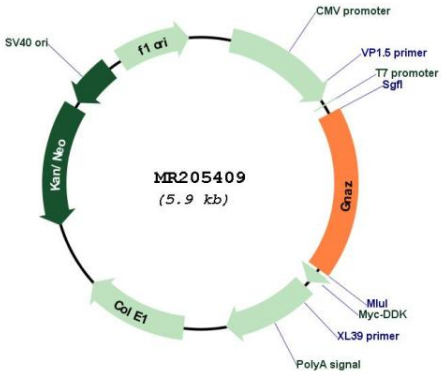
UniProt ID: O70443

Cytogenetics: 10 38.48 cM

MW: 40.8 kDa

Gene Summary: Guanine nucleotide-binding proteins (G proteins) are involved as modulators or transducers in various transmembrane signaling systems.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205409