

Product datasheet for MR205404

Gna14 (NM_008137) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Gna14 (NM_008137) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Gna14
Synonyms: AU023208
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR205404 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCGGCTGCTGCTGTTTGTCTGCGGAGGAGAAAGAGTCTCAGCGCATCAGCGCGGAGATCGAGCGGC
 AGCTTCGCGCGACAAGAAGGACGCGCGCGGGAGCTCAAGCTGCTGTTGCTGGGAACCGGTGAGAGTGG
 GAAAAGCACCTTTATCAAGCAGATGAGGATAATCCATGGGTCTGGCTACAGTGATGAAGATAGAAAGGC
 TTCACGAAGCTGGTTTACAAAACATATTCACGGCCATGCAAGCCATGATCAGAGCAATGGATACCCTGA
 GGATAACAATACATGTGTGAGCAGAATAAGGAAAATGCCAGATCATCAGGGAAGTGAAGTAGACAAGGT
 CACTGCACTCTCTAGAGACCAGGTGGCAGCCATCAAGCAGCTGTGGCTGGATCCCGGAATCCAGGAGTGT
 TACGACAGGAGGAGGAGTACCAGCTGTGAGACTCTGCCAAATATTACCTGACGGACATTGAGCGTATCG
 CCATGCCCTCTTTTCGTGCCAACACAACAGGATGTGCTTCGTGTTGAGTGGCCACCAGTGGCATCATAGA
 ATATCCATTTCGACCTGGAAAATATCATCTTCCGAATGGTGGATGTTGGTGGCCAGCGATCTGAACGACGG
 AAATGGATTCAGTCTTTGAGAGTGTACCTCCATCATTTTCTTGGTTGCTCTGAGTGAATATGACCAGG
 TTCTGGCTGAGTGTGACAATGAGAACCGCATGGAGGAGAGCAAAGCCCTGTTTAGAACCATCATCACCTA
 CCCCTGGTTTCTGAACCTCTCCGTGATTCTGTTCTTAAACAAGAAGGATCTTCTAGAGGAGAAAAATCATG
 TACTCTCATTAATTAGCTACTTCCAGAGTACACAGGACCAAAGCAAGATGTCAAAGCGGCCAGGGACT
 TTATCCTGAAGCTGTATCAAGACCAGAATCCTGACAAAGAGAAGTTATCTATTCTCACTTCACTTGTGC
 TACAGACACCGAGAATATCCGCTTTGTGTTTGTGCTGTCAAAGACACAATCCTACAGCTAACCTACGG
 GAGTTCAACTGGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205404 protein sequence
 Red=Cloning site Green=Tags(s)

MAGCCCLSAEEKESQRISAEIERQLRRDKKDARRELKLLLLGTGESGKSTFIKQMRIIHGSGYSDERKG
 FTKLVYQNIFTAMQAMIRAMDTLRIQYMCEQNKENAQIIREVEVDKVTALSRDQVAAIKQLWLDPGIQEC
 YDRRREYQLSDSAKYLLTDIERIAMPSPFVPTQQDVLRVVPTTGIIEYPFDLENIIFRMVDVGGQSRERR
 KWIHCFSVTSIIIFLVALSEYDQVLAECDNENRMEEESKALFRTIITYPWF LNSSVILFLNKKDLLEEKIM
 YSHLISYFPEYTGPKQDVKAAARDFILKLYQDQNPDKKEKVIYSHFTCATDTENIRVFVAAVKDTILQLNLR
 EFNLV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_008137

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_008137.1](#), [NM_008137.2](#), [NM_008137.3](#), [NM_008137.4](#), [NP_032163.2](#)

RefSeq Size: 3383 bp

RefSeq ORF: 1068 bp

Locus ID: 14675

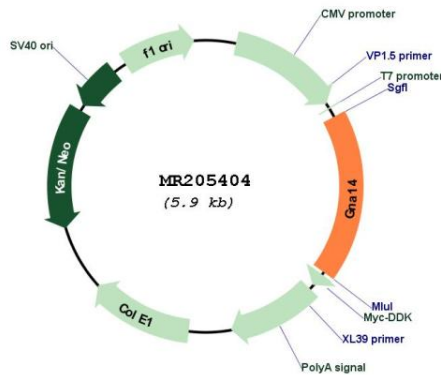
UniProt ID: [P30677](#)

Cytogenetics: 19 11.29 cM

MW: 41.5 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 MR205404