

Product datasheet for MR205488

Gnaq (NM_008139) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gnaq (NM_008139) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gnaq
Synonyms:	1110005L02Rik; 6230401I02Rik; AA408290; AW060788; Dsk1; Dsk10; Galphaq; Gq; Gql
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205488 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACTCTGGAGTCCATCATGGCGTGCTGCCTGAGCGAGGAGGCCAAGGAAGCCCGGAGGATCAACGACG
AGATCGAGCGGCAGCTGCGCAGGGACAAGCGCGACGCCCGGGAGCTCAAGCTGCTGTGCTGGGGAC
AGGGGAGAGTGGCAAGAGCACCTTCATCAAGCAGATGAGGATCCACGGGTCGGGCTACTCTGACGAAGAC
AAGCGCGGCTTCACCAAGCTGGTGTATCAGAACATCTTCACGGCCATGCAGGCCATGATCAGAGCGATGG
ACACGCTCAAGATCCCATACAAGTATGAACACAATAAGGCTCATGCACAATTGGTTCGAGAGGTTGATGT
GGAGAAGGTGCTGCTTTTGAGAATCCATATGTAGATGCAATAAAGAGCTTGTGGAATGATCCTGGAATC
CAGGAGTGCTACGACAGACGACGGGAATATCAGTTATCTGACTCTACCAATACTATCTGAATGACTTGG
ACCGTGTAGCCGACCCCTTCTATCTGCCTACACAAGACGCTGCTTAGAGTTTCGAGTCCCACTACAGG
GATCATCGAATACCCCTTTGACTTACAAAGTGTCAATTTTCAAGATGGTCGATGTAGGGGGCCAAAGGTCA
GAGAGAAGAAAATGGATACACTGCTTTGAAAATGTCACCTCCATCATGTTTCTAGTAGCGCTTAGCGAAT
ATGATCAAGTTCCTGTGGAGTCAGACAATGAGAACCGCATGGAGGAGAGCAAAGCACTCTTTAGAACAAT
TATCACCTACCCCTGGTCCAGAACTCCTCTGTGATTCTGTTCTTAAACAAGAAAGATCTTCTAGAGGAG
AAAATCATGTATTCCACCTAGTCGACTACTTCCAGAATATGATGGACCCAGAGAGATGCCAGGCAC
CTCGAGAATTCATCTGAAAATGTTCTGGACCTGAACCCGACAGTGACAAAATCATCTACTCCCACTT
CACGTGCCCCACAGATACCGAGAACATCCGCTTCTGCTTTGCAGCCGTCAGGACACCATCTGCAGCTG
AACCTGAAGGAGTACAATCTGGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205488 protein sequence
 Red=Cloning site Green=Tags(s)

MTLESIMACCLSEEAKEARRINDEIERQLRRDKRDARRELKLLLLGTGESGKSTFIKQMRIHSGSYDED
 KRGF TKL VYQNI FTAMQAMIRAMD TLKIPYKYEHNKAAHAQLVREVDVEKVS AFENPYVDAIKSLWNDPGI
 QECYDRRREYQLSDSTKYLLNDLDRVADPSYLP TQDVL RVRVPTTGIIEY PFDLQSVIFRMVDVGGQRS
 ERRKWIHCFENVTSIMFLVALSEYDQVLVESDNENRMEESKALFRTIITYPWFQNSSVILFLNKKDLLEE
 KIMYSHLV DYP EYDGPQRDAQAAREF ILKMFVDLNPDSDKIIYSHFTCATDTENIRVFVAVKDITLQL
 NLKEYNLV

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_008139

ORF Size: 1077 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_008139.2](#)

RefSeq Size: 5634 bp

RefSeq ORF: 1080 bp

Locus ID: 14682

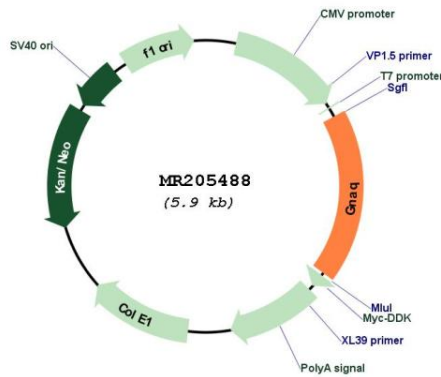
UniProt ID: [P21279](#)

Cytogenetics: 19 11.01 cM

MW: 42 kDa

Gene Summary: Guanine nucleotide-binding proteins (G proteins) are involved as modulators or transducers in various transmembrane signaling systems. Regulates B-cell selection and survival and is required to prevent B-cell-dependent autoimmunity. Regulates chemotaxis of BM-derived neutrophils and dendritic cells (in vitro).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205488