

Product datasheet for **MR200100**

Gng4 (NM_010317) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Gng4 (NM_010317) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Gng4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR200100 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGAAGGAAGGCATGTCTAATAACAGCACCACCAGCATCTCCAGGCCAGGAAAGCCGTGGAGCAGCTGA
 AGATGGAAGCCTGCATGGACAGGGTGAAGGTCTCCAGGCTGCCTCAGACCTCCTGGCCTACTGTGAAGC
 CCACGTGCGGGAGGACCCCTCATCATCCAGTGCCTGCCTCAGAAAACCCCTTCCGGGAGAAGAAGTTC
 TTCTGCACCATCCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR200100 protein sequence
 Red=Cloning site Green=Tags(s)
 MKEGMSNNSTTISQARKAVEQLKMEACMDRVKVSQAASDLLAYCEAHVREDPLIIPVPASENPFREKKF
 FCTIL

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI


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Cloning Scheme:



ACCN: NM_010317

ORF Size: 225 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_010317.3, NP_034447.1

RefSeq Size: 2976 bp

RefSeq ORF: 228 bp

Locus ID: 14706

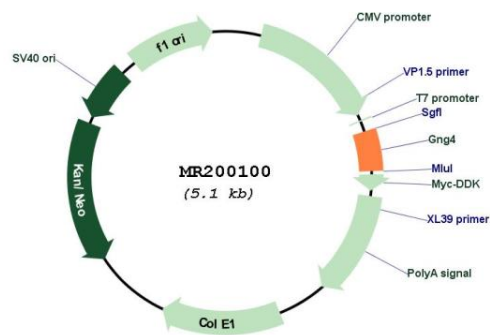
UniProt ID: P50153

Cytogenetics: 13 5.29 cM

MW: 8.4 kDa

Gene Summary: This gene encodes the gamma subunit of the heterotrimeric G-proteins that are comprised of alpha, beta and gamma subunits. Upon activation by G protein-coupled receptors, the beta-gamma heterodimer dissociates from the alpha subunit to activate downstream signaling events. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Dec 2014]

Product images:



Circular map for MR200100