

Product datasheet for **MR227723**

Gng2 (NM_001285909) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Gng2 (NM_001285909) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Gng2
Synonyms: 82
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR227723 representing NM_001285909
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCCAGCAACAACACCGCCAGCATAGCACAAAGCCAGGAAGCTGGTAGAACAGCTGAAGATGGAAGCCA
ACATCGACAGGATAAAGGTGTCCAAGGCAGCTGCTGACTTGATGGCCTACTGTGAGGCACATGCCAAGGA
AGACCCTCTGCTGACCCAGTCCAGCCTCAGAAAACCCCTTTCGGGAGAAGAAGTCTTCTGCGCCATC
CTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR227723 representing NM_001285909
Red=Cloning site Green=Tags(s)

MASNNTASIAQARKLVEQLKMEANIDRIKVSAAAADLMAYCEAHAKEDPLLTPVPAENPFREKKFFCAI
L

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

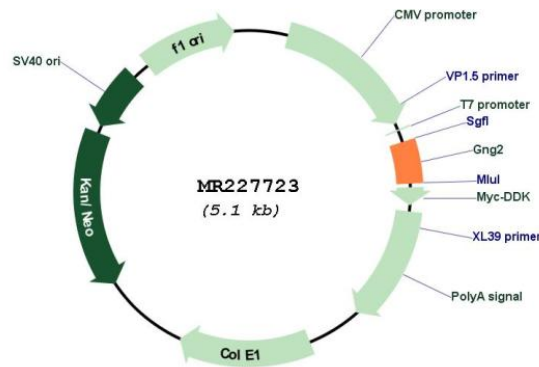


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001285909

ORF Size: 213 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:	<ol style="list-style-type: none">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:	<u>NM_001285909.1</u> , <u>NP_001272838.1</u>
RefSeq Size:	3745 bp
RefSeq ORF:	216 bp
Locus ID:	14702
UniProt ID:	<u>P63213</u>
Cytogenetics:	14 11.17 cM
MW:	8.3 kDa
Gene Summary:	Guanine nucleotide-binding proteins (G proteins) are involved as a modulator or transducer in various transmembrane signaling systems. The beta and gamma chains are required for the GTPase activity, for replacement of GDP by GTP, and for G protein-effector interaction. [UniProtKB/Swiss-Prot Function]