

Product datasheet for **MR225539**

Gabrg2 (NM_008073) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gabrg2 (NM_008073) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gabrg2
Synonyms:	GABAA-R; Gabrg-2; gamma2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR225539 representing NM_008073
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGTTCGCCAAATACATGGAGCATTGGAAGCTCAGTCTACTCTCTGTATTTTTCACAGAAAATGACGC
 TGTGGATTCTGCTCTGCTATCGCTCTACCCAGGCTTCAACAAGCCAAAAGTCAGATGATGACTATGAAGA
 TTACGCTTCTAATAAAACATGGGTGTTGACTCCAAAAGTTCCAGAGGGTATGTCCTGTCATCTTAAAC
 AACCTGCTGGAAGGGTATGACAACAACTTCGACCTGACATCGGAGTGAAACCAACATTAATTCATACAG
 ATATGTATGTGAACAGCATTGGTCCAGTGAATGCATCAATATGGAATATAACAATTGATATTTTTTTTGC
 CCAAACCTGGTATGACAGACGTTTGAATTTAACAGTACCATAAAGTTCTCCGTTGAATAGCAATATG
 GTGGGGAAAATCTGGATTCCAGACACTTCTTCAGGAAGTCCAAAAGGCTGATGCTCACTGGATCACCA
 CTCCCAACAGGATGCTGAGAATTTGGAATGATGGTCGAGTCTCTACACCTTAAGGCTAACAAATTGATGC
 TGAGTGCCAGTTGCAATTACACAACCTCCAATGGATGAACACTCTGCCCTGGAGTTCTCCAGTTAT
 GGATATCCTCGTGAAGAAATGTTTATCAATGGAAGCGCAGTTCTGTTGAAGTGGGTGACACAAGATCAT
 GGAGGCTGTATCAATTTTCTTTGTTGGATTGAGGAATACTGAAGTGTGAAGACAACCTTCTGGTGA
 CTATGTGGTGTCTGTGTACTTCGATCTGAGCAGAAGAATGGGCTACTTCACCATCCAGACTTACATT
 CCCTGCACACTCATCGTGGTCTGTCTGGGTGTCCTTCTGGATCAATAAGGATGCTGTTCTGCCAGAA
 CATCTTTAGGAATCACTACTGTCTGACCATGACAACCTTAAGCACCATAGCCAGAAAATCTCTGCCAA
 GGTCTCTATGTCACAGCAATGGATCTCTTTGTATCTGTTTGTCTCATCTTTGTGTTTCTGCTTTGGT
 GAGTATGGCACCTGCATTATTTTGTGAGCAACCGGAAGCAAGCAAGGATAAAGACAAAAGAAGAAAA
 ACCCTCTTCTCGGATGTTTCTCAAGGCCCTACCATTGATATTCGTCAGATGATGCAACCAATTCA
 AATGAACAATGCCACACCTTCAAGAGAGGGATGAAGAATATGGCTATGAGTGTGGATGGCAAGGAC
 TGTGCCAGTTTCTCTGCTGTTTGAAGATTGCCGAACAGGAGCCTGGAGACATGGGAGGATACATATTC
 GCATTGCCAAAATGGACTCCTATGCTCGGATCTTCTCCCTACCGCTTTTGTCTGTTCAATCTGTTTA
 CTGGTCTCTATCTTTATCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR225539 representing NM_008073
 Red=Cloning site Green=Tags(s)

MSSPNTWSIGSSVYSPVFSQKMTLWLLLLSLYPGFTSQKSDDDYEDYASNKTWVLPKVPEGDVTVILN
 NLLEGYDNKLRPDIGVKPTLIHTDMYVNSIGPVNAINMEYTIIDIFFAQTWYDRRLKFNSTIKVLRNLNSNM
 VGKIWIPTDFFRNSKKADAHWITTPNRMLRIWNGRVL YTLRLTIDAECQLQLHNFPMDEHSCPLEFSSY
 GYPREEIYYQWRSSVEVGDTRSWRLYQFSFVGLRNTTEVVKTTSGDYVVMVSYFDL SRRMGYFTIQTYI
 PCTLIVVLSWVSFWINKDAVPARTSLGITTVLTM TTLSTIARKSLPKVSYVTAMDLFVSVCFIFVFSALV
 EYGTLYHFVSNRKPSKDKDKKKKNPLLRMFSFKAPTIDIRPRSATIQMNNATHLQERDEEYGYECLDGKD
 CASFFCCFEDCRTGAWRHGRIHIRIAKMSYARIFFPTAFCLFNLVYVWVSYLYL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9017_a05.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_008073

ORF Size: 1422 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_008073.4](#)
RefSeq Size: 3935 bp

RefSeq ORF: 1425 bp

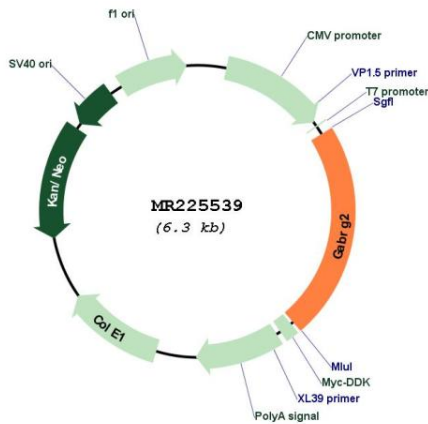
Locus ID: 14406

UniProt ID: [P22723](#)
Cytogenetics: 11 24.8 cM

MW: 55.5 kDa

Gene Summary: This gene encodes a gamma-aminobutyric acid (GABA)-A receptor subunit, which is a member of the ligand-gated ion channel family. GABA is the major inhibitory neurotransmitter in the adult central nervous system, and conversely exhibits an excitatory function during development. GABA-A receptors are pentameric, consisting of proteins from several subunit classes: alpha, beta, gamma, delta and rho. This gene encodes one of three gamma subunits in mammals, which contain the binding site for benzodiazepine drugs. Several mutations in this gene are associated with epileptic seizures, and genetic knockdown is associated with anxiety behavior. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2013]

Product images:



Circular map for MR225539