

## Product datasheet for **RR202912**

### **Gabrq (NM\_031733) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Gabrq (NM_031733) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gabrq
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide  
Sequence:

>RR202912 representing NM\_031733  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGCTGCGAGCCGCTGAGCTCCTGCTGCTCATTAGGACTTGGCTGGCAGAGAGTAACGACCCAGTCCCA  
CCCCAAAATTCACCTTCGAGCTCCTCCAGCATGCCTGAAGTCATCCTGGATCTCTCAACTGCAAAAA  
TTGTGCAAATGAAGCTGTTGTTCAAAGATTTTGGACAGGGTCCCTGTCAACATATGATGTCCGACTGAGA  
CCAAATTTTGGAGGAGCACCTGTGCCTGTGTCAATATCTATCTATGTCTCCAGTATTGAACAGATCTCAG  
AAATAACATGGACTATACCATCACAATGTTTCTGCATCAGACTTGAAGGACACGCGCTTAGCTTACTA  
TGAGACCAACCTGAACCTGACTCTGGACTATCGGATGCATGAGAAGCTCTGGGTCCCTGACTGCTACTTT  
GTGAATAGCAAAGATGCCTTTGTGCATGATGTAAGTCCGAGAGAATCGTGTATTTCAACTCACCCAGATG  
GGACAGTGCAATATGGCATCCGACTTACCACAACAGCAGCCTGTTCCCTGGATCTGCAAAAATTCCTAT  
GGACAAAACATCTGCAAGCTGGAGGTGGAGAGCTATGGCTACACTGTGCAAGACATTGTGTTATCCTGG  
GAAGATGATAATGCCATCCACATTAAGTACGAGCTACACATCCCTCAGTACACCTACCTGGGGAGGACAA  
TTACCAGCAAGGAGGTGTAATCTACACAGGCTCCTACATGCGCCTGATAGTGAAGTTCCAGGTTACAGG  
GGAAGTCCGAGTTACCTTGTGCAGGTCTATTGGCCACAGTCCCTCACCACCATCTCTCCTGGATATCA  
TTTTGGATGAACTATGGTTCCTCTGCAGCCAGGGTAACTATTGGACTAACTTCAATCCTTGTCTGACTA  
CCATCGACTCACATATGCGGGATAAACTCCCCATATTTCTGTATCAAAGCCATTGACATCTACATCCT  
TGTGTGCCTGTTCTTTCGTTTTCTGTCCCTGCTGGAGTATGTCTACATCAACTACCTTTTCTTACGCCAA  
GCACCTCGGCGTAATCACAGGAGATGCAGGAAACCCAGGAGAGTTGTTGCCGATACCGTACCAAGAAG  
TGGTGGTAGCACATGTGCAGGATGGCTGATAAATGTGGAAGACAGAGTGAAGACAGAGCTGGTCCCCT  
TCCTGACAGCCCCATGCAGGCTCATCTGGCAAGCCAGGAAAGTCTAGGATCTTTGTTGTTCACTTCAGAG  
GAGGCTCAACTGCTACTTCAGAAAGCCTCAGCCTACTCTCGTCTGCCTCAAGCCAGGTCCAATTGGCCA  
CTGGAGAAAGCCTGGGTGATCTGCCCTCCACCTCTGAGCAAACTGCCTGACTATACCATTCACTTTCA  
TGGTTTTCTCACTAATGACAGTATTCTCCCATCAAAATCCGCAGCCATTCTGATGCCCTGGGTGATGAA  
GACTCCGAAGAAAGCCTAAGCTCTGAGGAGAGCTATGGCCATGGAGGCAGCCCCACTGGAAGGCTCAAGC  
TCCAGATTAGCCAGAGGTGTGTGCAAGAAGCAAGTTGGGACATTGATAAGATTGAGAGCTTACAGGATGA  
CATCAGTATCAAGAGCAGCTGGCTTGGCCTTGTGAACAACGCAAAGGGGATGCTGACAGTATCTGGAGC  
CTTACTGATGAGGAGCTCATGGCCTGTGACCAAGAGAAGGACAGTAGCAGTAGCTCAGAGTCTGAGGAGA  
GTTGCTCCCCAAGCCCTGGGTGCTCCTTCAATGAAGGGTTCTCTTTTACGCTCTTAACCCTAACCGGGT  
CCCTAAGGTTGACAGGTGGTCCCGTTTCTCTTCCCTCTTTCCTTTGGGTTGTTCAATGTGGTTTACTGG  
TTATACCATATGTAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR202912 representing NM\_031733  
 Red=Cloning site Green=Tags(s)

MLRAAELLLLIRTWLAESNDPSPTPKFHFELSSSMPEVILDLFNCKNCANEAVVQKILDRVLSTYDVRLR  
 PNFGGAPVPVSIYVSSIEQISEINMDYTITMFLHQTKDTRLAYYETNLNLTLDYRMHEKLWVPCYF  
 VNSKDAFVHDVTAENRVFQLHPDGTVQYGI RLTTAACSLDLQKFPMDKQSCKLEVESYGYTVEDIVLSW  
 EDDNAIHITDELHIPQYTYLGRITTSKEVYFYTGSYMRLIVKFQVQREVRSYLVQVYWPTVLTITLSWIS  
 FWMNYGSSAARVTIGLTSILVLTIDSHMRDKLPHISCIKAIDIYILVCLFFVFLSLEYVYINYLFFSQ  
 APRRNHRRCRKPRRVVARYRYQEVVVAHVQDGLINVEDRVEDRAGPLPDSMPQAHLASQESLGSLLFTSE  
 EAQLATSESL SLLSSASSQVQLATGESLGDLPSTSEQLPDYTIHFHGFLTNSILPIKIRSHSDALGDE  
 DSEESLSEESYGHGGSPTGRLLQISQRCVQEASWDIDKIESLQDDISIKSSWLGLDEQRKGDADSIWS  
 LTDEELMACDQEKDSSSSSESEESCSPSPGCSFNEGFSFQLFNPNRV PKVDRWSRFLFPLSFGLFNVVVY  
 LYHMY

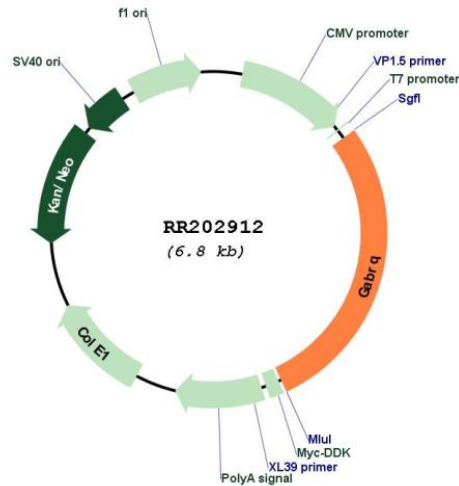
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_031733

**ORF Size:** 1905 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\\_031733.1](#), [NP\\_113921.1](#)  
RefSeq Size: 1908 bp  
RefSeq ORF: 1908 bp  
Locus ID: 65187  
Cytogenetics: Xq37  
MW: 72.6 kDa  
Gene Summary: theta subunit of GABAA receptor, which modulates synaptic transmission in the CNS [RGD, Feb 2006]