OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC123929

GABRR2 (NM_002043) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GABRR2 (NM_002043) Human Untagged Clone
Tag:	Tag Free
Symbol:	GABRR2
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>OriGene ORF within SC123929 sequence for NM_002043 edited (data generated by NextGen Sequencing)

ATGGTCAAGCCAGGGGGGATTTGCTCTGCCACAGGCTACTGGAAAGCAGCTTTTTGCCTC
ACAGATGTCCACAAAATGCCTTATTTTACAAGACTCATTTTGTTCTTGTTTTGCTTGATG
GTTCTCGTGGAGAGCAGAAAACCCAAGAGGAAGCGATGGACAGGGCAGGTGGAAATGCCC
AAGCCAAGTCACTTATATAAGAAGAACCTTGATGTGACCAAGATCCGGAAGGGAAAGCCT
CAGCAGCTTCTCAGAGTGGACGAGCACGACTTCAGCATGAGACCCGCCTTCGGAGGCCCT
GCCATCCCGGTGGGCGTGGACGTGCAGGTGGAGAGCCTGGACAGCATCTCCGAGGTGGAC
ATGGACTTCACTATGACCCTGTACCTGCGGCATTACTGGAAGGATGAGAGGCTAGCTTTC
TCCAGCGCCAGCAACAAGAGCATGACCTTCGATGGCCGGCTGGTGAAGAAGATCTGGGTC
CCTGATGTCTTCTTTGTTCACTCCAAAAGATCGTTCACTCATGACACCACCACTGACAAC
ATCATGCTGAGGGTGTTCCCAGATGGACACGTGCTGTACAGCATGAGGATTACGGTCACT
GCCATGTGCAACATGGACTTCAGCCACTTTCCCCTGGACTCCCAGACCTGTTCTTTGGAG
CTGGAGAGCTATGCCTATACAGATGAAGATCTAATGCTGTACTGGAAGAATGGGGATGAA
TCCCTAAAAACAGATGAGAAGATCTCCTTGTCTCAGTTTCTGATTCAGAAATTTCACACA
ACTTCCAGGCTGGCCTTCTACAGCAGCACTGGCTGGTACAACCGTCTGTACATTAACTTC
ACGTTGCGTCGCCACATCTTCTTCTTCTTGCTCCAAACATATTTCCCTGCCACTCTGATG
GTCATGCTGTCCTGGGTGTCCTTCTGGATTGACCGCAGAGCTGTGCCTGCCAGAGTTTCA
CTGGGTATCACGACGGTGCTGACCATGACCACCATCATCACGGGCGTGAATGCCTCCATG
CCGCGCGTCTCCTACGTCAAGGCCGTGGACATCTACCTCTGGGTCAGCTTTGTGTTCGTG
TTCCTCTCGGTGCTGGAGTATGCGGCTGTCAACTACCTGACCACCGTGCAGGAGCGCAAG
GAACGGAAGCTGCGGGAGAAGTTCCCGTGCATGTGTGGAATGCTTCATTCAAAAACCATG
ATGCTGGATGGAAGCTACAGTGAGTCTGAGGCCAACAGCCTGGCTGGGTACCCCAGAAGC
CATATCCTGACAGAAGAAGAAAGGCAAGACAAAATAGTGGTCCACCTGGGCCTGAGTGGT
GAAGCCAACGCTGCCAGAAAGAAGGGGCTTCTGAAGGGCCAGACGGGTTTTCGTATCTTC
CAGAATACCCATGCCATTGACAAATACTCTAGGTTGATATTCCCTGCCTCCTACATATTT
TTCAACTTAATTTATTGGTCAGTGTTTTCCTAG

Clone variation with respect to NM_002043.2
324 a=>g;930 c=>t

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002043 unedited

NGGTAACGTTCAAATTTTTATACGACTCACTATAGGCGGCCGCGAATTCGCACGAGCAGC
AGATGGATCAATGGTCAAGCCAGGGGGATTTGCTCTGCCACAGGCTACTGGAAAGCAGCT
TTTTGCCTCACAGATGTCCACAAAATGCCTTATTTTACAAGACTCATTTTGTTCTTGTTT
TGCTTGATGGTTCTCGTGGAGAGCAGAAAACCCAAGAGGAAGCGATGGACAGGGCAGGTG
GAAATGCCCAAGCCAAGTCACTTATATAAGAAGAACCTTGATGTGACCAAGATCCGGAAG
GGAAAGCCTCAGCAGCTTCTCAGAGTGGACGAGCACGACTTCAGCATGAGACCCGCCTTC
GGAGGCCCTGCCATCCCGGTGGGCGTGGACGTGCAGGTGGAGAGCCTGGACAGCATCTCC
GAGGTGGACATGGACTTCACTATGACCCTGTACCTGCGGCATTACTGGAAGGATGAGAGG
CTAGCTTTCTCCAGCGCCAGCAACAAGAGCATGACCTTCGATGGCCGGCTGGTGAAGAAG
ATCTGGGTCCCTGATGTCTTCTTTGTTCACTCCAAAAGATCGTTCACTCATGACACCACC
ACTGACAACATCATGCTGAGGGTGTTCCCAGATGGACACGTGCTGTACAGCATGAGGATT
ACGGTCACTGCCATGTGCAACATGGACTTCAGCCACTTTCCCCTGGACTCCCAGACCTGT
TCTTTGGGAGCTGGAGAGCTATGCCTATACAGATGAAGATCTTATGCTGTACTGGAAGAT
TGGGGATGAATCCCTAAAAACCGATGAGAAGATCTCCCTGGCCCAATTTCTGATTCCGAA
ATTTTCAACAACTTCCAGGCTGGCCTTTTTCAT

3' Read Nucleotide Sequence:

```
>OriGene 3' read for NM_002043 unedited
ACCGGTTATGCTGGAACATACAAAAACCGGTCTGGCCCTTCACAAGCCCCTTCTTTCTGG
CAGCGTTGGCTTTTCCACTCATGCCCAGGTGGACCACTATTCGGGCTCGCCTTTCTTCTT
CTGTCAGGATATGGCTTCTGGGGTACCCAGCCAGGCTGTTGGCCTCAGACTCACTGTAGC
TTCCATCCAGCATCATGGTTTTTGAATGAAGCATTCCACACATGCACGGGAACTTCTCCC
GCAGCTTCCGTTCCTTGCGCTCCTGCACGGTGGTCAGGTAGTTGACAGCCGCATACTCCA
GCACCGAGAGGAACACGAACACAAAGCTGACCCAGAGGTAGATGTCCACGGCCTTGACGT
AGGAGACGCGCGGCATGGAGGCATTCACGCCCGTGATGATGGTGGTCATGGTCAGCACCG
TCGTGATACCCAGTGAAACTCTGGCAGGCACAGCTCTGCGGTCAATCCAGAATGACACCC
AGGACAGCATGACCATCAAAGTGGCAGGGAAATATGTTTGGAGCAAGAAGAAGAAGATGT
GGCGACGCAACGTGAAGTTAATGTACAGACGGTTGTACCAGCCAGTGCTGCTGTAGAAGG
CCAGCCTGGAAGTTGTGTGAAATTTCTGAATCAGAAACTTGAGACAAGGGAGATCTTCTT
CATCTTGTTTTTAGGGGATTTAATCCCCCATTTCTTTTCCCGTNCCAGGAATTTAGGATC
CTTCCATCCTGTATTAGGGCCATAGGCTCTTCCCAGCTTCCCAAAGAAAACAGGGTCTTG
GTGGAAGTCCCAAGGGGGAAAAAG
```

Restriction Sites: NotI-NotI

ACCN: NM_002043

Insert Size: 4800 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_002043.1, NP_002034.1

RefSeq Size: 1628 bp

RefSeq ORF: 1398 bp

Locus ID: 2570

UniProt ID: P28476

Cytogenetics: 6q15

Protein Families: Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

Gene Summary: Gamma-aminobutyric acid (GABA) is the major inhibitory neurotransmitter in the mammalian brain where it acts at GABA receptors, which are ligand-gated chloride channels. The protein encoded by this gene is a member of the rho subunit family and is a component of the GABA type A receptor complex. This gene exists on chromosome 6q next to the gene encoding the rho 1 subunit of the GABA type A receptor, in a region thought to be associated with susceptibility for psychiatric disorders and epilepsy. Polymorphisms in this gene may also be associated with alcohol dependence, and general cognitive ability. [provided by RefSeq, Apr 2016]