

Product datasheet for **RC211528**

GABA A Receptor gamma 2 (GABRG2) (NM_000816) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GABA A Receptor gamma 2 (GABRG2) (NM_000816) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GABA A Receptor gamma 2
Synonyms:	CAE2; DEE74; ECA2; EIEE74; FEB8; GEFSP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC211528 representing NM_000816
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGTTCGCCAAATATATGGAGCACAGGAAGCTCAGTCTACTCGACTCCTGTATTTTCACAGAAAATGA
 CGGTGTGATTCTGCTCCTGCTGTCGCTCTACCCTGGCTTCACTAGCCAGAAATCTGATGATGACTATGA
 AGATTATGCTTCTAACAAAACATGGGTCTTGACTCCAAAAGTTCCTGAGGGTGATGTCACGTGCATCTTA
 AACAACTGCTGGAAGGATATGACAATAAACTTCGGCCTGATATAGGAGTGAAGCCAACGTTAATTCACA
 CAGACATGTATGTGAATAGCATTGGTCCAGTGAACGCTATCAATATGGAATACACTATTGATATATTTTT
 TGCGCAAACGTGGTATGACAGACGTTTGAATTTAACAGCACCATTAAAGTCTCCGATTGAACAGCAAC
 ATGGTGGGAAAATCTGGATTCCAGACACTTTCTCAGAAATCCAAAAAGCTGATGCACACTGGATCA
 CCACCCCAACAGGATGCTGAGAATTTGGAATGATGGTCGAGTGTCTACACCCTAAGGTTGACAATTGA
 TGCTGAGTGCCAATTACAATTGCACAACTTCCAATGGATGAACACTCCTGCCCTTGGAGTTCTCCAGT
 TATGGCTATCCAGTGAAGAAATGTTTATCAATGGAAGCGAAGTTCTGTTGAAGTGGGCGACACAAGAT
 CCTGGAGGCTTTATCAATTCTCATTGTTGGTCTAAGAAATACCACCGAAGTAGTGAAGCAACTCCGG
 AGATTATGTGGTCATGTCTGTCTACTTTGATCTGAGCAGAAGAATGGGATACTTTACCATCCAGACCTAT
 ATCCCCTGCACACTCATTGTCTGCTCTACCTGGGTGTCTTTCTGGATCAATAAGGATGCTGTTCCAGCCA
 GAACATCTTTAGGTATCACCACTGTCTGACAATGACCACCCTCAGCACCATTGCCCGGAAATCGTCCC
 CAAGGTCTCTATGTACAGCGATGGATCTCTTTGTATCTGTTTGTTCATCTTTGTCTTCTGCTCTG
 GTGGAGTATGGCACCTTGCAATATTTGTGACGCAACCGAAACCAAGCAAGGACAAGATAAAAAAGAAGA
 AAAACCTGCCCTACCATTGATATCCGCCCAAGATCAGCAACCATTCAAATGAATAATGCTACACACT
 TCAAGAGAGAGATGAAGAGTACGGCTATGAGTGTCTGGACGGCAAGGACTGTGCCAGTTTTTTCTGCTGT
 TTTGAAGATTGTGCAACAGGAGCTTGGAGACATGGGAGGATACATATCCGCATTGCCAAAATGGACTCCT
 ATGCTCGGATCTTCTCCCACTGCCTTCTGCCTGTTAATCTGGTCTATTGGGTCTCTACCTCTACCT
 G

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC211528 representing NM_000816
 Red=Cloning site Green=Tags(s)

MSSPNIWSTGSSVYSTPVSQKMTVWILLLLSLYPGFTSQKSDDDYEDYASNKTWVLPKVPEDVTVIL
 NNLLLEGYDNKLRPDIGVKPTLIHTDMYVNSIGPVNAINMEYTIIDIFFAQTWYDRRLKFNSTIKVLRNLSN
 MVGKIWIWPDFFRNSKKADAHWITTPNRMRLRIWNGRVLVTLRLTIDAECQLQLHNFPMDEHSCPLEFSS
 YGYPREEIVYQWKRSSVEVGDTRSWRLYQFSFVGLRNTTEVVKTTSGDYVMSVYFDLRRMGYFTIQTY
 IPCTLIIVLSWVSFWINKDAVPARTSLGITTVLMTTLSTIARKSLPKVSYVTAMDLFVSVCFIFVFSAL
 VEYGLLHYFVSNRKPDKDKKKKNPAPTIDIRPRSATIQMNNATHLQERDEEYGYECLDGKDCASFCC
 FEDCRTGAWRHGRIHIRIAKMDSYARIFFPFAFLFNLVYVWSYLYL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6271_h05.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

ACCN: NM_000816

ORF Size: 1401 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_000816.3](#)
RefSeq Size: 2370 bp

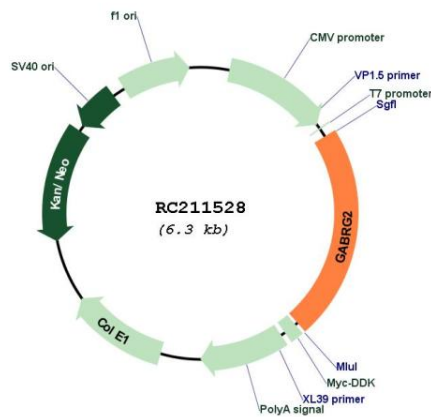
RefSeq ORF: 1404 bp

Locus ID: 2566

UniProt ID: [P18507](#)
Cytogenetics: 5q34

Domains:	Neur_chan_memb, Neur_chan_LBD
Protein Families:	Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
MW:	54.16 kDa
Gene Summary:	This gene encodes a gamma-aminobutyric acid (GABA) receptor. GABA is the major inhibitory neurotransmitter in the mammalian brain, where it acts at GABA-A receptors, which are ligand-gated chloride channels. GABA-A receptors are pentameric, consisting of proteins from several subunit classes: alpha, beta, gamma, delta and rho. Mutations in this gene have been associated with epilepsy and febrile seizures. Multiple transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC211528