

Product datasheet for **SC109261**

GABA A Receptor gamma 2 (GABRG2) (NM_000816) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GABA A Receptor gamma 2 (GABRG2) (NM_000816) Human Untagged Clone
Tag:	Tag Free
Symbol:	GABA A Receptor gamma 2
Synonyms:	CAE2; DEE74; ECA2; EIEE74; FEB8; GEFSP3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_000816, the custom clone sequence may differ by one or more nucleotides

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ATGAGTTCGCCAAATATATGGAGCACAGGAAGCTCAGTCTACTCGACTCCTGTATTTTCACAGAAAATGA
CGGTGTGGATTCTGCTCCTGCTGTGCTCTACCTGGCTTCACTAGCCAGAAATCTGATGATGACTATGA
AGATTATGCTTCTAACAAAACATGGGTCTTGACTCCAAAAGTTCTGAGGGTGATGTCACGTGTCATCTTA
AACAACTGCTGGAAGGATATGACAATAAACTTCGGCCTGATATAGGAGTGAAGCCAACGTTAATTCACA
CAGACATGTATGTGAATAGCATTGGTCCAGTGAACGCTATCAATATGGAATACACTATTGATATATTTTT
TGCGCAAACGTGGTATGACAGACGTTTGAATTTAACAGCACCATTAAAGTCCTCCGATTGAACAGCAAC
ATGGTGGGGAAAATCTGGATTCCAGACACTTTCTCAGAAATTCAAAAAGCTGATGCACACTGGATCA
CCACCCCAACAGGATGCTGAGAATTTGGAATGATGGTCGAGTGTCTACACCCTAAGGTTGACAATTGA
TGCTGAGTGCCAATTACAATTGCACAACTTTCCAATGGATGAACACTCCTGCCCTTGGAGTTCTCCAGT
TATGGCTATCCACGTGAAGAAATGTTTATCAATGGAAGCGAAGTTCTGTTGAAGTGGGCGACACAAGAT
CCTGGAGGCTTTATCAATTCTCATTTGTTGGTCTAAGAAATACCACCGAAGTAGTGAAGACAACCTCCGG
AGATTATGTGGTCATGTCTGTCTACTTTGATCTGAGCAGAAGAATGGGATACTTTACCATCCAGACCTAT
ATCCCCTGCACACTCATTGTGCTCCTATCCTGGGTGTCTTTCTGGATCAATAAGGATGCTGTTCCAGCCA
GAACATCTTTAGGTATCACCAGTGTCTGACAATGACCACCCTCAGCACCATTGCCCGAAATCGCTCCC
CAAGGTCCTCTATGTCACAGCGATGGATCTCTTTGTATCTGTTTTCATCTTTGTCTTCTCTGCTCTG
GTGGAGTATGGCACCTTGCAATATTTTGTGAGCAACCGAAACCAAGCAAGGACAAAGATAAAAAGAAGA
AAAACCTGCCCTACCATTGATATCCGCCAAGATCAGCAACCATTCAAATGAATAATGCTACACACCT
TCAAGAGAGAGATGAAGAGTACGGCTATGAGTGTCTGGACGGCAAGGACTGTGCCAGTTTTTTCTGCTGT
TTTGAAGATTGTGCAACAGGAGCTTGGAGACATGGGAGGATACATATCCGCATTGCCAAAATGGACTCCT
ATGCTCGGATCTTCTCCCACTGCCTTCTGCCTGTTAATCTGGTCTATTGGTCTCCTACCTCTACCT
GTGA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_000816 unedited NNGGTCAGAATTTGTATACGACTCATATAGGCGGCCGCGNAATTCGCACGAGGGGTATCT GCAAGCGTTTTTGTCTGATCTTATCTCTGCCCTNGATATTAATCCCTAATCTGGTAGC AATCCATCTCCCCAGTGAAGGACCTACTAGAGGCAGGTGGGGGGAGCCACCATCAGATCA TAAGCATAAGAATAATACAAAGGGGAGGGATTCTTCTGCAACCAAGAGGCAAGAGGCGAG AGAAGGAAAAAAAAAAGCGATGAGTTCGCCAAATATATGGAGCACAGGAAGCTCAGTC TACTCGACTCCTGTATTTTACAGAAAAATGACGGTGTGGATTCTGCTCCTGCTGTCGCTC TACCCTGGCTTCACTAGCCAGAAAATCTGATGATGACTATGAAGATTATGCTTCTAACAAA ACATGGGTCTTGACTCCAAAAGTTCTGAGGGTATGTCACCTGTCTTAAACAACCTG CTGGAAGGATATGACAATAAACTTCGGCCTGATATAGGAGTGAAGCCAACGTTAATTCAC ACAGACATGTATGTGAATAGCATTGGTCCAGTGAACGCTATCAATATGGAATACACTATT GATATATTTTTTGCACAAACGTGGTATGACAGACGTTTGAATTTAACAGCACCATTAA GTCCTCCGATTGAACAGCAACATGGTGGGAAAACTGGATTCCAGACACTTTCTCAGA AATTCAAAAAGCTGATGCACACTGGGATCACCACCCCAACAGGATGCTNGAGATTTG GAATGGATGGTCGAGTCTACACCCTAAGGTTGACAATTGATGCTGAGTGCCAATTAC AATTGCACAAACTTTCCATGGATGAACACTNNCTGCCCTGGNANTNCTCCAGGTATGCC TATCCACGTGAAGAAA</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_000816 unedited ACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGGATAACTTCAGTCCATT TATTTTGGATCTAAAGAGATGCATGCACTAACTTGAAGCATTCTAAGTTATTGAAATAT TTACATCATTGTACATGAATGTGGAGGAAATTTCTTCTATCTTGAGATAAAGGTGTA TAGATTTCTGGACTAGGCTTTCATATTTAAAGTGAGTTATGTTTTTCTTAAATGAGGGA GGTATTCTATTGGATCAATTTATCACAACCTGACCCGGAGTGAACATAGGGTACAGTT TTGGACCTTTTCTATCTAATTGCATTATGAATCTAGTAAGGATACCACTACTGTAATAG TCAGGGCTTCACTGTTTTATTTGCTGTAGCTGAAAAATATCTTATTTGGTTTGAATGTT CTTGCTCTAATTTACTTTGCCTTGCAAGTTTGAACACAGCAACATCGAAGTTCAAAG TACACTAACCAAGGAGGGCTGGGCACAAACAATGACATTATAAAATTTACCAGGTTT GGACATAGAAACAGATTTTCCATGAGACTCAGTGAATAAGAACCCTATCAGTAAACCCATACC TTCTCACAGGTAGAGGTAGGAGACCCCATTTGACCAATTAACAGCCCAAGGCAGTGGGGA AAAGATCCGACCTAAGAGTCCATTTTGGCAAGCCGATATGGATCCTCCATGTTTTTCAAC TCTGGTCGACAATCTTAAACACCAAAAAAACTGCCAAGTCTTTGCGTCCAAACCTCT AACCGCCTCTCAATTTTTTTTGGAGGGGTAACATTATTTTTGAATGGTGCGAACTCTG GCGGTATAATGGTAGGCCG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_000816
Insert Size:	2440 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:	<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_000816.2, NP_000807.2</u>
RefSeq Size:	2370 bp
RefSeq ORF:	1404 bp
Locus ID:	2566
UniProt ID:	<u>P18507</u>
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
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) lacks two alternate in-frame exons, compared to variant 3. It encodes isoform 2 which is shorter than isoform 3.</p>