

Product datasheet for **SC307809**

GABA A Receptor gamma 2 (GABRG2) (NM_198904) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GABA A Receptor gamma 2 (GABRG2) (NM_198904) Human Untagged Clone
Tag:	Tag Free
Symbol:	GABA A Receptor gamma 2
Synonyms:	CAE2; DEE74; ECA2; EIEE74; FEB8; GEFSP3
Mammalian Cell Selection:	Neomycin
Vector:	<u>PCMV6-Neo</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_198904 edited
TCTGCCCCCTGAATATTAATTCCTAATCTGGTAGCAATCCATCTCCCCAGTGAAGGACC
TACTAGAGGCAGGTGGGGGAGCCACCATCAGATCATAAGCATAAGAATAATACAAGGG
GAGGGATTCTTCTGCAACCAAGAGGCAAGAGGCGAGAGAAGGAAAAAAAAAAGCGATG
AGTTCGCCAAATATATGGAGCACAGGAAGCTCAGTCTACTCGACTCCTGTATTTTCACAG
AAAATGACGGTGTGGATTCTGCTCCTGCTGTCGCTCTACCCTGGCTTCACTAGCCAGAAA
TCTGATGATGACTATGAAGATTATGCTTCTAACAAAACATGGGTCTTGACTCCAAAAGTT
CCTGAGGGTGTGCTACTGTCATCTTAAACAACCTGCTGGAAGGATATGACAATAAACTT
CGGCTGATATAGGAGTGAAGCCAACGTTAATTCACACAGACATGTATGTGAATAGCATT
GGTCCAGTGAACGCTATCAATATGGAATACACTATTGATATATTTTTGCGCAAACGTGG
TATGACAGACGTTTGAATTTAACAGCACCATTAAAGTCTCCGATTGAACAGCAACATG
GTGGGAAAAATCTGGATTCCAGACACTTTCTTCAGAAATTCAAAAAAGCTGATGCACAC
TGGATCACCAACCCCAACAGGATGCTGAGAATTTGGAATGATGGTCGAGTCTACACC
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GCCCGAAATCGCTCCCCAAGGTCTCCTATGTCACAGCGATGGATCTCTTTGTATCTGTT
TGTTTCATCTTTGCTTCTCTGCTCTGGTGGAGTATGGCACCTTGCCTTATTTTGTGAGC
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TGTGCCAGTTTTTCTGCTGTTTTGAAGATTGTGCAACAGGAGCTGGAGACATGGGAGG
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TGCTGTGTTAATCTGGTCTATTGGGTCTCCTACCTCTACCTGTGAGGAGGTATGGGTTTT
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CTAGCTTTCCAATGTGTGCATAGTATTGGCAATATGAATATATATATATAATCTAAT
ACTTATTATAAGCTGCTCCCTGTCTATGATTTGGAAACCTTTTCAAAAGGGAATTGCC
TAACATGTGGACTTTTACAATAAAAAATGCTGCATTCTAAAAAAAAAAAAAAAAA

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Restriction Sites:

Please inquire

ACCN:

NM_198904

Insert Size:

3800 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).

OTI Annotation:

The ORF of this clone has been fully sequenced and found to contain one SNP compared with NM_198904.1.

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_198904.1</u> , <u>NP_944494.1</u>
RefSeq Size:	3871 bp
RefSeq ORF:	1428 bp
Locus ID:	2566
UniProt ID:	<u>P18507</u>
Cytogenetics:	5q34
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 (1) lacks an alternate in-frame exon, compared to variant 3. It encodes isoform 1 which is shorter than isoform 3.</p>