

Product datasheet for **SC119626**

GABA A Receptor alpha 5 (GABRA5) (NM_000810) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GABA A Receptor alpha 5 (GABRA5) (NM_000810) Human Untagged Clone
Tag:	Tag Free
Symbol:	GABA A Receptor alpha 5
Synonyms:	DEE79; EIEE79
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_000810 edited
GCGAGAGCAGGCGGAGGAGAAGGAGGATGCATCCTCACCAGCGGCTCGCCTCCCGGGGCC
GGCGCGCAGGTGCCTTGCAGAGAGAGGAGTAGCTTGTGGCTTTGAACGCGTGGCGTGGC
AGATATTTCAAAAAGCTTCAAGAACAAGCTGGAGAAGGGAAGATTATTCCTCCATATTC
ACCTGCTTCAACTACTATTCTTATTGGGAATGGACAATGGAATGTTCTCTGGTTTTATCA
TGATCAAAAACCTCCTTCTCTTTTGTATTCCATGAACTTATCCAGTCACTTTGGCTTTT
CACAGATGCCAACCGATTTCAGTAAAAGATGAGACCAATGACAACATCACGATATTTACCA
GGATCTTGGATGGGCTCTTGGATGGCTACGACAACAGACTTCGGCCCGGGCTGGGAGAGC
GCATCACTCAGGTGAGGACCGACATCTACGTCAACAGCTTCGGCCCGGTGTCCGACACGG
AAATGGAGTACACCATAGACGTGTTTTTCCGACAAAGCTGAAAAGATGAAAGGCTTCGGT
TTAAGGGGCCATGCAGCGCCTCCCTCTCAACAACCTCCTTGCCAGCAAGATCTGGACCC
CAGACACGTTCTCCACAACGGGAAGAAGTCCATCGCTCACAAATGACCACGCCCAACA
AGCTGCTCGGGCTGGAGGACGACGGCACCCCTGCTCTACACCATGCGCTTGACCATCTCTG
CAGAGTGCCCATGCAGCTTGGAGACTTCCCGATGGATGCGCACGCTTGCCTCTGAAAT
TTGGCAGCTATGGGTACCCTAATTCTGAAGTCGTCTACGTCTGGACCAACGGCTCCACCA
AGTCGGTGGTGGTGGCGGAAGATGGCTCCAGACTGAACCAAGTACCACCTGATGGGGCAGA
CGTGGGGCACTGAGAATCAGCACCCAGCACAGGCGAATACACAATCATGACAGTCACT
TCCACCTGAAAAGGAAGATTGGCTACTTTGTATCCAGACCTACCTTCCCTGCATAATGA
CCGTGATCTTATCACAGGTGTCTTTTGGCTGAACCGGGAATCAGTCCCAGCCAGGACAG
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TGCCCAAAGTGGCTACGCCACCGCCATGGACTGGTTCATAGCCGTGTGCTATGCCTTGG
TCTTCTCGGCGTGATAGAGTTTGGCACGGTCAATTACTTTACCAAGAGAGGCTGGGCTT
GGGATGGCAAAAAGCCTTGGAAAGCAGCAAGATCAAGAAAAAGCGTGAAGTCATACTAA
ATAAGTCAACAAACGCTTTTACAACCTGGGAAGATGTCTACCCCCAAACATTCGGAAGG
AACAGACCCAGCAGGGACGTGCAATACAACTCAGTCTCAGTAAAACCTCTGAAGAGA
AGACTTCTGAAAGCAAAAAGACTTACAACAGTATCAGCAAAATTGACAAAATGTCCCGAA
TCGTATTTCCAGTCTTGTTCGGCACTTTCAACTTAGTTTACTGGGCAACGTATTTGAATA
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AGACAGCCATACTTCCAGCGAAATGGTACCAAGGAGAGGTCTTGCTCACAGGGACTCTCC
ATATGTGAGCACTATCTTTCAGGAAATTTTGCATGTTTAAATAATGTACAAAATATAT
TGCTTGTATGTTTCTATATGTAACCTCAGATGTTTCCAAGATGTCCCATGATAATTCGA
GCAAACTTTCTGAAAACAGGATACGATGACTGACACTCAGATGCCAGTATCATA
CGTTGATAGTTTACAAACAAGATACGTATATTTTAACTGCTTCAAGTGTACCTAACAA
TGTTTTTTATACTTCAAATGTCATTTTCATACAAATTTTCCAGTGAATAAATATTTTAGG
AACTCTCCATGATTATAGTTGACCAACTATATTGCGAGAAACAGAGATCATAAAGAGC
ACGTTTTCCATTATGAGGAACTTGGACATTTATGTACAAAATGAATTGCCTTTGATAAT
TCTTACTGTTCTGAAATTAGGAAAGTACTGCATGATCTTACACGAAGAAATAGAATAGGC
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CAGTGTTTTGTGACATTCTCAGCACTTGGCCATGTGATCGCTGTCTCTGAAACACTGA
CCACCTCTCCCTACAGCCAGCGTGTAGTCTCAGTGGTGAAGAAATGTAATTGAGTTAT
TTTCCATTTTATTTCTTGTATGTATTTTCATGACTGGACTTACTGCTGTGTGAGCTTTTG
TATATGAATCTTAAATGTTCAATAAAAAATAAAAAATGAACTGATAAAAAATAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA
    
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_000810 unedited GGTGGATTTGAAACCGACTTACTATAGGCGGCCGCGCAATTCGCACGAGGGCGAGAGCTT TCGGAGGAGAAGGAGGATGCATCCTCACCAGCGGCTCGCCTCCCGGGCCGGCGCGCAGG TGCCTTGACAGAGAGAGGAGTAGCTTGGCTTTGAACCGGTGGCGTGGCAGATATTTCA GAAAGCTTCAAGAACAAGCTGGAGAAGGATTATTTATCCTCCATATTCACCTGCTTCA ACTACTATTCTTATTGGGAATGGACAATGGAATGTTCTCTGGTTTTATCATGATCAAAAA CCTCCTTCTCTTTGTATTTCCATGAACCTATCCAGTCACTTTGGCTTTTCACAGATGCC AACAGTTTCAGTGAAAGATGAGACCAATGACAACATCACGATATTTACCAGGATCTTGA TGGGCTCTTGGATGGCTACGACAACAGACTTCGGCCCGGCTGGGAGAGCGCATCACTCA GGTGGAGACCGACATCTACGTACCAGCTTCGGCCCGGTGCCGACCGAAAATGGAGTA CACCATAGACGTGTTTTCCGACAAAGCTGAAAGATGAAAGGCTTCGGTTAAGGGGCC CATGCAGCGCTCCCTCTCAACAACCTCCTTGCCAGCAAGATCTGGACCCAGACACGTT CTTCCACAACGGNAAAGAGTCCATCGCTCACAAATGACCACGCCAACAAGCTGCTGCG GCTGGAGGACGACGGCACCTGCTACACCATGCGCTTGACCATCTCTGCAGAGTGCC CATGCAGCTTGAGGACTCCCGAGGATGCGCACGCTTGCCTCTGAAATTGGCAGCTATG CGTACCCTAATTCTTGAGTCGTCTACGTCTGGACCACGGGCTACCAAGTCGTGGTGGT GGCGGAGATGGCTCCAGACTTACCCGTCACC</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_000810 unedited GGCACTTCCAGGGCCAGNATAGCACTGGGGAGGGGTACAGGGATGCCACCCGGGATCTG TTCAGGAAACAGCTATGACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTT TTTTTTTTTTTTTTTTTTTTTTTTTTTATCAGGCCATTTTTTATTTTTTAAAGAACATTT AAGATTCATATACAAAAGCTGACAGAGCAGTAAGTCCAGTCTTGAATACATCCCGGAA ATAAAAAGGAAAATAACTCAATTTCTACCACTGAAGCACTACCCCTGGCTGT AGGGAAAGGGGTGAGTGTTCAAAAACAGCGATCACATGGGCCAAGGGCTGAAAATGGC ATCAAAACACTGGTGGGTAAACATCCCCTTCTTTCTTGGCTATTGTTTCAAGGAGGGG GGGGGGGGGGGAAAAAATGTTTCTTTTCTTCCCAAAAAATTTAAGCAGTTGATTTTTT TTCCTCAGGAAATATTTGGGGGATCTAACATAAGAGGGATTTCTGGTATTAATCGGCC GCATAAAAAGTTGCCTATTCTATTCTTTCGGGAAAGATCATGCAGTACTTTCCTAATTC AGAACAGTAAGAATTATCAAAGGCAATTCATTTTGGACATAAATGGCCAAGTTTCTCAT AATGGAAAAACGGCTCTTTATGAACTCTGGTTCTCGCAAAATAGTTGGACACTAAAAATC AGGGAGAGGTTCTAAAAATTTATTCAGTGGAAAAATTCATGAAATGACATTTTGAAGT ATAAAAACATTGTTAGGGAACACTTGAAGCAGTAAAAATCCCNATCTTGTGGGAACAT TCACGTTGAACTGGGCTTTGGAGGGCAACATCGTTCTGGTTTCCCAAGAGGTGTG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_000810
Insert Size:	2600 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 be a perfect match to NM_000810.2.
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_000810.2, NP_000801.1</u>
RefSeq Size:	2352 bp
RefSeq ORF:	1389 bp
Locus ID:	2558
UniProt ID:	<u>P31644</u>
Cytogenetics:	15q12
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>GABA is the major inhibitory neurotransmitter in the mammalian brain where it acts at GABA-A receptors, which are ligand-gated chloride channels. Chloride conductance of these channels can be modulated by agents such as benzodiazepines that bind to the GABA-A receptor. At least 16 distinct subunits of GABA-A receptors have been identified. Transcript variants utilizing three different alternative non-coding first exons have been described. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein.</p>