

Product datasheet for **SC119669**

GABRA2 (NM_000807) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GABRA2 (NM_000807) Human Untagged Clone
Tag:	Tag Free
Symbol:	GABRA2
Synonyms:	DEE78; EIEE78
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC119669 sequence for NM_000807 edited (data generated by NextGen Sequencing)

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ATGAAGACAAAATTGAACATCTACAACATGCAGTTCCTGCTTTTTGTTTTCTTGGTGTGG
GACCCTGCCAGGTTGGTGTGGCTAACATCCAAGAAGATGAGGCTAAAAATAACATTACC
ATCTTTACGAGAATTCTTGACAGACTTCTGGATGGTTACGATAATCGGCTTAGACCAGGA
CTGGGAGACAGTATTACTGAAGTCTTCACTAACATCTACGTGACCAGTTTTGGCCCTGTC
TCAGATACAGATATGGAATATACAATTGATGTTTTCTTTTCGACAAAAATGGAAAGATGAA
CGTTTAAATTTAAAGGTCCTATGAATATCCTTCGACTAAACAATTTAATGGCTAGCAAA
ATCTGGACTCCAGATACCTTTTTTTCACAATGGGAAGAAATCAGTAGCTCATAATATGACA
ATGCCAAATAAGTTGCTTCAATTGAGGATGATGGGACTCTGCTGTATACCATGAGGCTT
ACAGTTCAAGCTGAATGCCCAATGCACTTGGAGGATTTCCCAATGGATGCTCATTATGT
CCTCTGAAATTTGGCAGCTATGCATATACAACCTCAGAGGTCCTTATATTTGGACTTAC
AATGCATCTGATTCAGTACAGGTTGCTCCTGATGGCTCTAGGTTAAATCAATATGACCTG
CTGGGCCAATCAATCGGAAAGGAGACAATTAATCCAGTACAGGTGAATATACTGTAATG
ACAGCTCATTTCACCTGAAAAGAAAAATGGGTATTTTGTGATTCAAACCTATCTGCCT
TGATCATGACTGTCATTCTCTCCAAGTTTCATTCTGGCTTAACAGAGAATCTGTGCCT
GCAAGAACTGTGTTGGAGTAACAACCTGCTTAACAATGACAACCTAAGCATCAGTGTCT
CGGAATTTCTCCCCAAAGTGGCTTATGCAACTGCCATGGACTGGTTTATTGCTGTTTGT
TATGCATTTGTGTTCTCTGCCCTAATTGAATTTGCAACTGTTAATTACTTCACCAAAAGA
GGATGGGCTTGGGATGGGAAGAGTGTAGTAAATGACAAGAAAAAGAAAAGGCTTCCGTT
ATGATACAGAACAACGCTTATGCAGTGGCTGTTGCCAATTATGCCCGAATCTTTCAAAA
GATCCAGTTCTCTCCACCATCTCAAGAGTGAACCCAGCCAGAACCCCAACAAGAAGCCA
GAAAACAAGCCAGCTGAAGCAAGAAAACTTTCAACAGTGTAGCAAAAATTGACAGAATG
TCCAGAATAGTTTTTCCAGTTTTGTTTGGTACCTTTAATTTAGTTTACTGGGCTACATAT
TTAAACAGAGAACCTGTATTAGGGTTCAGTCTTGA
    
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Clone variation with respect to NM_000807.2
396 a=>g

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000807 unedited

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AATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGATCGTTTTCCCCCTCCTCC
TCTTCTCCTCCTCCTCTTCTCCTCCTCCGCCATCACCGCCACTACGAACGCCTTCGC
CTCCTTACACCTCGCGCCGCCGCCGGCTCCTAGCGCTCCTCTCCGGCTTCCACCAG
CCCATCGCTCCACGCTCTCTGGCTGCTGCAGTCTCGGCTCTCTCTCTCTCTCTCTCT
CTCTCTCTCTCTCTCTCTCCCAAGTTTCTATCTCGTCAAGATCAGGGCAAAGGA
AGAAAACACCGAATTCGCTTCCGTTTTCAGAGCGCGGTGATGAAGACAAAATTGAACA
TCTACAACATGCAGTTCTGCTTTTTGTTTTCTTGGTGTGGACCCTGCCAGTTGGTGC
TGGCTAACATCCAAGAAGATGAGGCTAAAAATAACATTACCATCTTACGAGAATCTTG
ACAGACTTCTGGATGGTTACGATAATCGGCTTAGACCAGGACTGGGAGACAGTATTACTG
AAGTCTTCACTAACATCTACGTGACCAGTTTTGGCCCTGTCTCAGATACAGATATGGAAT
ATACAATTGATGTTTTCTTTTCGACAAAAATGGAAAGATGAACGTTTTAAATTTAAAGGTC
CTATGAATATCCTTCGACTAAACAATTTAATGGCTAGCANAATCTGGACTCCAGATACCT
TTTTTACAATGGGAAGAAATCAGTAGCTCATAATATGACCATGCCAAAATAGTTGCTTC
GAATTCAGGATGATGGGACTCTGCTGTATACCATGAGGGCTACAGNTCAAGCTGAATGCC
CAATGCACTNGGGAGGGATTCATGAGGCTCATTTCATGCTCCTGAAATTTGGCAGCTA
TGCATATACACTTCAAAGTCACTTAATTTGGACTACATGCATTGATCANNANGTGA
    
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3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_000807 unedited TGGGCCTATTTACTTAGNACGCGGCCCTCATACTANGANCGGATTTTTTTTTTTTTTTTTT TAATTAAGTAGTTTCCAAGGATAAAAATAAATTGTAGATTTCAATTATTACTTTCAAATAA ACTCTGAAGCTAAAAAGTAATGACCATGACATTCCAATAGTTATTACATCGTAGGCATAA TTAACATCCTTTTCGGGCTGACTCATAATTATTTGAGCTTGTCATGCTGTAATATGTACAT GGCTATAGATACTATATAGAGTAATTCATAGCTGATTTCAAATCTCTAGTTTTTCTTATG TGTACCAAGCTTCCAATTACATTAGCAGGACTCTGAGCACTCATGAACAGAGCTGATGT CAGATACAATGTTTGTACTTCAAAGGATTCATCTAGGAATGACAATGTTATCTTCCATC ATAATTAAGCAACAGTAGAAAATACCCCTACTTAAGAGCTAAACCAAAAGGGTCCACAAA GGGTTGTACAGGATCCCCATTTTCATCTCATTTGGAAGAATAGGAAATTAATCAGGTCAC TTGAAATTCACTTAAATCAGGTCCTAGGGTAAATCTTTAAAAAAGGCAATGGCTGTTTT CGCATGGAGTGCTTTCTGTCTGCAGTTCATGAGTTAGCAAATGCATGTCTCCATTAAG GTCTACTGGTAAGCTATGCTACTATATACATACTGTACATGTTGGATCACAAATAGCAG TTATTAGTCAGACTGTACATAGCAAAACANACCAAAATTTAATGTTGCTATACATCCAAA GAAACATGGGTCTCAATTCAAGGACTGACCCCTATACAGTTCCTGTGTTAAATATGTAG CCCAGTAAACTAATTTAAAG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_000807
Insert Size:	2500 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	NM_000807.1 , NP_000798.1
RefSeq Size:	2189 bp
RefSeq ORF:	1356 bp

Locus ID:	2555
UniProt ID:	P47869
Cytogenetics:	4p12
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. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2013]</p> <p>Transcript Variant: This variant (1) represents the shortest transcript and encodes the shortest isoform (a). Both variants 1 and 2 encode the same isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>