

## Product datasheet for SC109253

### GABA B Receptor 1 (GABBR1) (NM\_001470) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GABA B Receptor 1 (GABBR1) (NM_001470) Human Untagged Clone
Tag:	Tag Free
Symbol:	GABA B Receptor 1
Synonyms:	GABABR1; GABBR1-3; GB1; GPRC3A
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC109253 sequence for NM_001470 edited (data generated by NextGen Sequencing)

ATGTTGCTGCTGCTACTGGCGCCACTCTTCCTCCGCCCCCGGGCGCGGGCGGGGCG  
CAGACCCCAACGCCACCTCAGAAAGTTGCCAGATCATACACCCGCCCTGGGAAGGGGCG  
ATCAGGTACCGGGGCTGACTCGGGACAGGTGAAGGCTATCAACTTCCTGCCAGTGAC  
TATGAGATTGAGTATGTGTGCCGGGGGAGCGGAGGTGGTGGGGCCCAAGGTCCGCAAG  
TGCCTGGCCAACGGCTCTGGACAGATATGGACACACCCAGCCGCTGTGTCCGAATCTGC  
TCCAAGTCTTATTTGACCCTGGAAAATGGGAAGTTTTCTGACGGGTGGGGACCTCCCA  
GCTCTGGACGGAGCCCGGTGGATTTCCGGTGTGACCCGACTTCCATCTGGTGGGCAGC  
TCCCGGAGCATCTGTAGTCAGGGCCAGTGGAGCACCCCAAGCCCACTGCCAGGTGAAT  
CGAACGCCACACTCAGAACGGCGCGCAGTGTACATCGGGGCACTGTTTCCCATGAGCGGG  
GGCTGGCCAGGGGCCAGGCCTGCCAGCCCGCGGTGGAGATGGCGCTGGAGGACGTGAAT  
AGCCGCAGGGACATCCTGCCGACTATGAGCTCAAGCTCATCCACCACGACAGCAAGTGT  
GATCCAGGCCAAGCCACCAAGTACCTATATGAGCTGCTCTACAACGACCCTATCAAGATC  
ATCCTTATGCCTGGCTGCAGCTCTGTCTCCACGCTGGTGGCTGAGGCTGCTAGGATGTGG  
AACCTCATTGTGCTTTCTATGGCTCCAGCTCACCAGCCCTGTCAAACCGGCAGCGTTTC  
CCCACTTTCTTCCGAACGCACCCATCAGCCACACTCCACAACCTACCCGCGTGAACCTC  
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TCGACTCTGGACGACCTGGAGGAACGAGTGAAGGAGGCTGGAATTGAGATTACTTTCCGC  
CAGAGTTTCTTCTCAGATCCAGCTGTGCCGTCAAAAACCTGAAGCGCCAGGATGCCCGA  
ATCATCGTGGGACTTTTCTATGAGACTGAAGCCCGAAAAGTTTTTTGTGAGGTGTACAAG  
GAGCGTCTCTTTGGGAAGAAGTACGTCTGGTTCCTCATTGGGTGGTATGCTGACAATTGG  
TTCAAGATCTACGACCCTTCTATCAACTGCACAGTGGATGAGATGACTGAGGCGGTGGAG  
GGCCACATCACAACCTGAGATTGTCATGCTGAATCCTGCCAATACCCGAGCATTTCACAC  
ATGACATCCCAGGAATTTGTGGAGAACTAACCAAGCGACTGAAAAGACACCTGAGGAG  
ACAGGAGGCTTCCAGGAGGCACCGCTGGCCTATGATGCCATCTGGGCCTTGGCACTGGCC  
CTGAACAAGACATCTGGAGGAGGCGGCCGTTCTGGTGTGCGCCTGGAGGACTTCAACTAC



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AACAAACCAGACCATTACCGACCAAATCTACCGGGCAATGAACTCTTCGTCCTTTGAGGGT
GTCTCTGGCCATGTGGTGTGTTGATGCCAGCGGCTCTCGGATGGCATGGACGCTTATCGAG
CAGCTTCAGGGTGGCAGCTACAAGAAGATTGGCTACTATGACAGCACCAAGGATGATCTT
TCCTGGTCCAAAACAGATAAATGGATTGGAGGGTCCCCCAGCTGACCAGACCTGGTC
ATCAAGACATTCCGCTTCTGTCTGTCAGAACTCTTATCTCCGTCTCAGTTCTCTCCAGC
CTGGGCATTGTCTAGCTGTTGTCTGTCTGTCTTTAACATCTACAACCTCACATGTCCGT
TATATCCAGAACTCACAGCCCAACCTGAACAACCTGACTGCTGTGGGCTGCTCACTGGCT
TTAGTCTGTCTTCCCCCTGGGGCTCGATGGTTACCACATTGGGAGGAACCAAGTTTCCT
TTCGTCTGCCAGGCCCGCTCTGGCTCCTGGGCTGGGCTTTAGTCTGGGCTACGGTTCC
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TTTGCCAAGGAGGAACCTAAGGAAGATATTGACGTCTCTATTCTGCCCCAGCTGGAGCAT
TGCAGCTCCAGGAAGATGAATACATGGCTTGGCATTCTTCTATGGTTACAAGGGGCTGCTG
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GATCACCGGGCTGTGGGCATGGCTATCTACAATGTGGCAGTCCTGTGCCTCATCACTGCT
CCTGTCAACCATGATTCTGTCCAGCCAGCAGGATGCAGCCTTTGCCTTTGCCTCTCTTGCC
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AACAAACACGAGGAGGAGAAGTCCCGGCTGTTGGAGAAGGAGAACCGTGAAGTGGAAAAG
ATCATTGCTGAGAAAGAGGAGCGTGTCTCTGAAGTGGCCATCAACTCCAGTCTCGGCAG
CAGCTCCGCTCCCGGCGCCACCCACCGACACCCCAAGAACCTCTGGGGGCTGCCCAGG
GGACCCCTGAGCCCCCGACCGGCTTAGCTGTGATGGGAGTCGAGTGCATTTGCTTTAT
AAGTGA

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Clone variation with respect to NM\_001470.2

**5' Read Nucleotide  
Sequence:**

>OriGene 5' read for NM\_001470 unedited

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TGTCAAATTTGTATACGACTCACTATAGGCGGCCGCGATTCGGCACGAGGCCGGGCTG
GGGCTTTGAGGCCCGGGGAGAGCCGGGAGCCGGGCCCGCGCCGAGATGTTGCTGCTG
CTGCTACTGGCGCACTCTTCTCCGCCCCCGGGCGCGGGCGGGGCGCAGACCCCAAC
GCCACCTCAGAAGGTTGCCAGATCATAACCCGCCCTGGGAAGGGGGCATCAGGTACCGG
GGCCTGACTCGGGACCAGGTGAAGGCTATCAACTTCTGCCAGTGGACTATGAGATTGAG
TATGTGTGCCGGGGGAGCGGAGGTGGTGGGGCCCAAGGTCCGCAAGTGCCTGGCCAAC
GGCTCCTGGACAGATATGGACACACCCAGCCGCTGTGTCCGAATCTGCTCCAAGTCTTAT
TTGACCTGGAAAATGGGAAGGTTTTCTGACGGGTGGGGACCTCCAGCTCTGGACGGA
GCCCGGGTGGATTTCCGGTGTGACCCGACTTCCATCTGGTGGGACGCTCCCGGAGCATC
TGTAAGTCAGGGCCAGTGGAGACCCCCAAGCCCCACTGCCAGGTGAATCGAACGCCACAC
TCAGAACGGCGCGCAGTGTACATCGGGGCACTGTTTCCCATGAGCGGGGGCTGGCCAGGG
GGCCAGGCCTGCCAGCCCGCGGTGGAGATGGCGCTGGAGGACGTGAATAGCCGCAGGGAC
ATCCTGCCGACTATGAGCTCAAGCTCATCCACCACGACGAAGTGTGATCCAGGCCAA
GCCACCAAGTACCTATATGAGCTGCTCTACAGACCTATCAGNACATCCTTATGCCTGG
CTGCAGCTCTGTCTTACGCTGGTGGCTGAGGCTGCTANGATGTGGACCCTCATGTGCNT
TNCTATGGCTCAGCTACCAGCCTGTCAAACGCNAGCGTTCCACTT

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<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_001470 unedited</p> <pre>CCGCAATCGGGTTGCNTTACTGCCNTAATTGNGGATCGGGGNGNATCCTTCCCCAGTAC CACCACAGTGTGTTAGGGACACCACCTCCCACCCCATAGGTCCATCTGTCTATCCCAACA GTCAAGGGTGCCTTCTTTGGTCAGGATTCTCATCAACTATCCACTGGAAGCAGCTCTCC AAACCTGCCCCCACTTATTTTTCCTTAATCCCCTCAAAAAACACATATCAAAGGGAG CAGTCTTGGGAGAAGATGATTGTGAGTGTAGACTGAGGGTAGTACATGAATGCAATGGAG ATGGGGGAATCTGAGCAGAAATGGAGATTCTGTGACAAGGAGAGGGTGTGGATGGCCCC ACCAAACATGAATTGGGGAAAAGTGCATAACAATGTGCAGGGTAGGGTACATATGGCTCT GTCAGAAGAATACCATGATTTAAGGGAAGAAAGTACACAAGGTACATGGAGGGTACACAG GGAAAGTACATGGATAAACATGGACGTGTGCAAAATAGGAAAGACATGACTCAGCATGCTA GACAAATTGCACATGCCTACCCAAACACGCTCAAGGGCAGACCCATGACCATGAGAGGGG CACACGTAGCTGTGAATGCAGGGCACCCGAGAGCACATGTGACTGAACATGAAGAAAGCA TACGGGAAAAGCGTGTGTACACATGAGCATGTTTCAAGTGGGCACACGAGGAGAGGGGAGG ATGCATGTGTGCTGAGCGTGAGTGCACAGAGCAGAGGCAAGGAGCATGTGAGCCTTGCGG AAAAGATGAGNTCCCAAGGAAGCAAATTCAGGTGAGCCCATGTGAGAAGTATGGAGGTN CAGTAGATGGAAGAGATATGACAGTGGAGAAAGGAAGGCCCTTTGGGTGGAAGAGCACTG TTGGAGACCCTGCTGGACAGACAGN</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_001470
<b>Insert Size:</b>	5130 bp
<b>OTI Disclaimer:</b>	<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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a></p>
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_001470.1, NP_001461.1</u>
<b>RefSeq Size:</b>	4445 bp

RefSeq ORF:	2886 bp
Locus ID:	2550
UniProt ID:	<a href="#">Q9UBS5</a>
Cytogenetics:	6p22.1
Domains:	7tm_3, CCP, ANF_receptor
Protein Families:	Druggable Genome, GPCR, Secreted Protein, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction

**Gene Summary:** This gene encodes a receptor for gamma-aminobutyric acid (GABA), which is the main inhibitory neurotransmitter in the mammalian central nervous system. This receptor functions as a heterodimer with GABA(B) receptor 2. Defects in this gene may underlie brain disorders such as schizophrenia and epilepsy. Alternative splicing generates multiple transcript variants, but the full-length nature of some of these variants has not been determined. [provided by RefSeq, Jan 2016]  
 Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a).