

## Product datasheet for **SC112876**

### **GABA B Receptor 1 (GABBR1) (NM\_021904) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GABA B Receptor 1 (GABBR1) (NM_021904) Human Untagged Clone
Tag:	Tag Free
Symbol:	GABA B Receptor 1
Synonyms:	GABABR1; GABBR1-3; GB1; GPRC3A
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >OriGene ORF within SC112876 sequence for NM\_021904 edited (data generated by NextGen Sequencing)

```

ATGTTGCTGCTGCTGCTACTGGCGCCACTTTCCTCCGCCCCCGGGCGCGGGCGGGGGC
CAGACCCCAACGCCACCTCAGAAGGTTGCCAGATCATACACCCGCCCTGGGAAGGGGGC
ATCAGGTACCGGGGCTGACTCGGGACCAGGTGAAGGCTATCAACTTCTGCCAGTGGAC
TATGAGATTGAGTATGTGTGCCGGGGGAGCGGAGGTGGTGGGGCCCAAGTCCGCAAG
TGCTTGCCCAACGGCTCCTGGACAGATATGGACACACCCAGCCGCTGTGTGAATCGAACG
CCACACTCAGAACGGCGCGCAGTGTACATCGGGGCACTGTTTCCATGAGCGGGGGCTGG
CCAGGGGGCCAGGCTGCCAGCCCGGGTGGAGATGGCGCTGGAGACGTGAATAGCCGC
AGGGACATCCTGCCGACTATGAGCTCAAGCTCATCCACCACGACAGCAAGTGTGATCCA
GGCCAAGCCACCAAGTACCTATATGAGCTGCTCTACAACGACCCTATCAAGATCATCCTT
ATGCTGGCTGCAGCTCTGTCTCCACGCTGGTGGCTGAGGCTGCTAGGATGTGGAACCTC
ATTGTGCTTTCTATGGCTCCAGCTCACCAGCCCTGTCAAACCGGACGCTTTCCCACT
TTCTTCCGAACGCACCCATCAGCCACACTCCACAACCCTACCCGCGTGAACCTTTTGAA
AAGTGGGGCTGGAAGAAGATTGCTACCATCCAGCAGACCACTGAGGTCTTCACTTCGACT
CTGGACGACCTGGAGGAACGAGTGAAGGAGGCTGGAATTGAGATTACTTTCCGCCAGAGT
TTCTTCTCAGATCCAGCTGTGCCGTCAAAAACCTGAAGCGCCAGGATGCCCGAATCATC
GTGGGACTTTTCTATGAGACTGAAGCCCGAAAGTTTTTTGTGAGGTGTACAAGGAGCGT
CTCTTTGGGAAGAAGTACGTCTGGTTTCTCATTGGGTGGTATGCTGACAATTGGTTCAAG
ATCTACGACCCTTCTATCAACTGCACAGTGGATGAGATGACTGAGGCGGTGGAGGGCCAC
ATCACAAGTGAAGTGTGATGCTGAATCCTGCCAATACCCGCAGCATTTCACATGACA
TCCCAGGAATTTGTGGAGAACTAACCAAGCAGTGAAGGACACCCTGAGGAGACAGGA
GGCTTCCAGGAGGCACCCGCTGGCCTATGATGCCATCTGGGCTTGGCACTGGCCCTGAAC
AAGACATCTGGAGGAGGCGCCGTTCTGGTGTGCGCCTGGAGGACTTCAACTACAACAAC
CAGACCATTACCGACCAATCTACCGGCAATGAACTTTCGTCTTTGAGGGTGTCTCT
GGCCATGTGGTGTGATGCCAGCGCTCTCGGATGGCATGGACGCTTATCGAGCAGCTT
CAGGGTGGCAGCTACAAGAAGATTGGCTACTATGACAGCACCAAGGATGATCTTCTCGG
TCCAAAACAGATAAATGGATTGGAGGGTCCCCCAGCTGACCAGACCCTGGTCAACAAG
ACATTCGCTTCTGTACAGAACTCTTATCTCCGTCTCAGTCTCTCCAGCCTGGGC
ATTGTCTAGCTGTTGTCTGTCTGCTCTTAACATCTACAACCTCATGTCGTTATATC
CAGAAGTACAGCCCACTGAACAACCTGACTGCTGTGGGCTGCTCACTGGCTTTAGCT
GCTGTCTTCCCCCTGGGGCTCGATGGTTACCACATTGGGAGGAACAGTTTCTTTTCGTC
TGCCAGGCCCCCTCTGGCTCCTGGGCCTGGGCTTGTAGTCTGGGCTACGGTTCCATGTT
ACCAAGATTTGGTGGGTCCACACGGTCTTCAAAAAGAAGGAAGAAAAGAAGGAGTGGAGG
AAGACTCTGGAACCTGGAAGCTGTATGCCACAGTGGGCTGCTGGTGGGCATGGATGTC
CTCACTCTCGCCATCTGGCAGATCGTGGACCCTCTGCACCGGACCACTGAGACATTTGCC
AAGGAGGAACCTAAGGAAGATATTGACGTCTCTATTCTGCCCCAGCTGGAGCATTGCAGC
TCCAGGAAGATGAATACATGGCTTGGCATTCTATGGTTACAAGGGGCTGCTGCTGCTG
CTGGGAATCTTCTTGTATGAGACCAAGAGTGTGCCACTGAGAAGATCAATGATCAC
CGGGCTGTGGGCATGGCTATCTACAATGTGGCAGTCTGTGCCTCATCACTGCTCCTGTC
ACCATGATTCTGTCCAGCCAGCAGGATGCAGCCTTTGCCCTTGTCTCTTGGCATAAGT
TTCTCCTCTATATCACTCTTGTGTGCTCTTGTGCCAAGATGCGCAGGCTGATCACC
CGAGGGGAATGGCAGTGGAGGGCGCAGGACACCATGAAGACAGGGTCATCGACCAACAAC
AACGAGGAGGAGAAGTCCCGGCTGTTGGAGAAGGAGAACCCTGAACTGGAAGATCATT
GCTGAGAAAGAGGAGCGTGTCTGAACTGCGCCATCACTCCAGTCTCGGCAGCAGCTC
CGCTCCCGGGCCACCCACCGACACCCCAAGAACCTCTGGGGGCTGCCAGGGGACCC
CCTGAGCCCCCGACCGCTTAGCTGTGATGGGAGTGCAGTGCATTTGCTTTATAAGTGA

```

Clone variation with respect to NM\_021904.2

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_021904 unedited  
 AGACTGGGGTTNGTTAACGNACTACGGGTGGCGGAAACCCATTGCACGAGGGAGAGCCG  
 TGGAGCCGGGCCCGCGCGCCGAGATGTTGCTGCTGCTACTGGCGCCACTCTTCTCC  
 GCCCCCCGGGCGCGGGCGGGGCGCAGACCCCAACGCCACCTCAGAAGGTTGCCAGATCA  
 ACACCCGCCCTGGGAAGGGGCATCAGTACTGGTCTGACTCGGGACCAGGTGAAGGCTAT  
 CAACTTCTGCCAGTGGACTATGAGATTGAGTATGTGTGCCGGGGGAGCGCGAGGTGGT  
 GGGGCCCAAGGTCGCAAGTGCCTGGCCAACGGCTCCTGGACAGATATGGACACACCCAG  
 CCGCTGTGTAATCGAACGCCACACTCAGAACGGCGCGCAGTGTACATCGGGGCACTGTT  
 TCCCATGAGCGGGGCTGGCCAGGGGGCCAGGCCTGCCAGCCCGCGGTGGAGATGGCGCT  
 GGAGGACGTGAATAGCCGAGGGACATCCTGCCGACTATGAGCTCAAGCTCATCCACCA  
 CGACAGCAAGTGTGATCCAGGCCAAGCCACCAAGTACCTATATGAGCTGCTTACAACGA  
 CCCTATCAAGATCATCTTATGCCTGGCTGCAGCTCTGTCTCCACGCTGGTGGCTGAGGC  
 TGCTAGGATGTGGAACCTCATTGTGCTTTCCTATGGCTCCAGCTACCAGCCCTGTCAA  
 CCGGCAGCGTTTTCCCACTTTCTTGAACGCACCCATCAGCCACACTCCACAACCCTACC  
 CGCGTGAAACTCTTTGAAAAGTGGGGCTGAAAGAAAATGTACCATCCAGCAAACACTGA  
 GGTCTTCACTTCGACTCTGGACGACCTGGAGGAACAAGTGAAGGAGGCTGGAATTGAAAT  
 ACTTTC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_021904 unedited  
 NTTGTACATTNGGGGCACTGGGTTTCATTGGAGTTTTCGGGNAGNATCCCTTCCCAGN  
 ANACACCACAGTGTGAAAGGGACACCACCTCCCACCCCATAGGTCCATCTGTCTATCCA  
 ACAGTCAAGGGTGCCTTCTTTGGTCAGGATTCTCATCAACTATCCACTGGAAGCAGCTC  
 TCCAAACCTGCCCCACTTATTTTTCTTAATCCCTCAAAAAACACAAAACAAAAGG  
 GAGCAGTCTTGGGAGAAGATGATTGTGAGTGTAGACTGAGGGTAGTACATGAATGCAATG  
 GAGATGGGGGGAATCTGAGCAGAAATGGAGATTCTGTGACAAGGAGAGGGTGTGGATGGC  
 CCCACCAAACATGAATTGCTGAAAAGTGCATAACAATGTGCAGGGTAGGGTACATATGGC  
 TCTGTGCAAGAATACCATGATTTAAGGGAAGAAAAGTACACAAGGTACATGGAGGGTACA  
 CAGGGAAAAGTACATGGATAAACATGGACGTGTGCAAAATAGGAAAGACATGACTCAGCATG  
 CTAGACAAATTGCACATGCCTACCCAAACACGCTCAAGGGCAGACCCATGACCATGAGAG  
 GGGCACACGTAGCTGTGAATGCAGGGCACCCGAGAGCACATGTGACTGAACATGAAAGAA  
 GCATACGGGAAAAGCGTGTGTACACATGAGCATGTTTCAGTGGGCACACGCAGGAGAGGGG  
 AGGATGCATGTGTGCTGACCGTGTGACAGAGCAGAGGCAAAGAGCATGTGAGCCTTG  
 GCGAAAAGAATGAGCTCCCAAAGAAGCAAAATCAGNGGAGCCACATGTGAAAAGTTGG  
 GAAGGCAAGTAGATGTAAGAGATTTGACAGTGGAGAAAGGAGAGCCCTTTGGGTGAAA  
 GAGCATTGTGGGAAACCCGCTGCAAG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_021904

**Insert Size:**

4130 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).

<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>	<a href="#">NM_021904.1</a> , <a href="#">NP_068704.1</a>
<b>RefSeq Size:</b>	4260 bp
<b>RefSeq ORF:</b>	2700 bp
<b>Locus ID:</b>	2550
<b>UniProt ID:</b>	<a href="#">Q9UBS5</a>
<b>Cytogenetics:</b>	6p22.1
<b>Domains:</b>	7tm_3, ANF_receptor
<b>Protein Families:</b>	Druggable Genome, GPCR, Secreted Protein, Transmembrane
<b>Protein Pathways:</b>	Neuroactive ligand-receptor interaction
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (3) lacks an in-frame exon in the 5' coding region compared to variant 1. It encodes isoform c which is shorter than isoform a.</p>