

Product datasheet for **SC109254**

GABA B Receptor 1 (GABBR1) (NM_021903) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GABA B Receptor 1 (GABBR1) (NM_021903) 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)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_021903, the custom clone sequence may differ by one or more nucleotides

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ATGGGGCCCGGGGCCCTTTTCCCGGGTGGGGTGGCCACTGCCGCTTCTGGTTGTATGGCGGCAGGGG
TGGCTCCGGTGTGGGCTCCCACTCCCCCATCTCCCGGGCTCACTCGCGGGTCCCCCGCACCCCTC
CTCAGAACGGCGCAGTGTACATCGGGCACTGTTTCCATGAGCGGGGCTGGCCAGGGGCCAGGCC
TGCCAGCCCGCGGTGGAGATGGCCTGGAGGACGTGAATAGCCGAGGGACATCCTGCCGACTATGAGC
TCAAGCTCATCCACCACGACAGCAAGTGTGATCCAGGCCAAGCCACCAAGTACCTATATGAGCTGTCTA
CAACGACCCTATCAAGATCATCCTTATGCCTGGCTGCAGCTCTGTCTCCACGCTGGTGGCTGAGGCTGT
AGGATGTGGAACCTATTGTGCTTTCCTATGGCTCCAGCTCACCAGCCCTGTCAAACCGGCAGCGTTTCC
CCACTTCTTCCGAACGCACCCATCAGCCACACTCCACAACCCTACCCGCGTGAAGCTTTTGAAAAGTG
GGGCTGGAAGAAGATTGCTACCATCCAGCAGACCACTGAGGTCTCACTTCGACTCTGGACGACCTGGAG
GAACGAGTGAAGGAGGCTGGAATTGAGATTACTTCCGCCAGAGTTTCTCTCAGATCCAGCTGTGCCCCG
TCAAAAACCTGAAGCGCCAGGATGCCCCAATCATCGTGGGACTTTCTATGAGACTGAAGCCCGAAAGT
TTTTTGTGAGGTGTACAAGGAGCGTCTCTTTGGGAAGAAGTACGTCTGGTTCCTATTGGGTGGTATGCT
GACAATTGGTTCAAGATCTACGACCCTTCTATCAACTGCACAGTGGATGAGATGACTGAGGCGGTGGAGG
GCCACATCACAAGTGAATGTGATGCTGAATCCTGCCAATACCCGAGCATTTCACATGACATCCCA
GGAATTTGTGGAGAACTAACCAAGCGACTGAAAAGACACCCTGAGGAGACAGGAGGCTTCCAGGAGGCA
CCGCTGGCCTATGATGCCATCTGGGCTTGGCACTGGCCCTGAACAAGACATCTGGAGGAGGCGGCCGT
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TACGGTTCATGTTACCAAGATTTGGTGGTCCACACGGTCTTCAAAAGAAGGAAGAAAAGAAGGAGT
GGAGGAAGACTCTGGAACCCTGGAAGCTGTATGCCACAGTGGCCTGCTGGTGGCATGGATGTCCTCAC
TCTCGCCATCTGGCAGATCGTGGACCCTCTGCACCGGACCATTGAGACATTTGCCAAGGAGGAACCTAAG
GAAGATATTGACGTCTCTATTCTGCCCCAGCTGGAGCATTGCAGCTCCAGGAAGTGAATACATGGCTTG
GCATTTCTATGGTTACAAGGGGCTGCTGCTGCTGCTGGGAATCTTCTTGTCTTATGAGACCAAGAGTGT
GTCCACTGAGAAGATCAATGATCACCAGGCTGTGGGCATGGTATCTACAATGTGGCAGTCTGTGCCTC
ATCACTGCTCCTGTACCATGATTCTGTCCAGCCAGCAGGATGCAGCCTTTGCCTTTGCCTCTTTGCCA
TAGTTTTCTCCTCTATATCACTCTTGTGTGCTTTTGTGCCAAGATGCGCAGGCTGATCACCCGAGG
GGAATGGCAGTCGGAGGCGCAGGACCCATGAAGACAGGGTATCGACCAACAACAACGAGGAGGAGAAG
TCCCGGCTGTTGGAGAAGGAGAACCCTGAACTGAAAAGATCATTGCTGAGAAAGAGGAGCGTGTCTCTG
AACTGCGCCATCAACTCCAGTCTCGGCAGCAGCTCCGCTCCCGGCGCCACCCACCGACACCCCGAACC
CTCTGGGGCCTGCCAGGGGACCCCTGAGCCCCCGACCGGCTTAGCTGTGATGGGAGTGCAGTGCAT
TTGCTTTATAAGTGA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_021903 unedited NTTGTTCAAATTTTGTAAATACGAACTACTATAGGGCGGCCGCGATTTCGGCACGAGGCGG CGACGGTGGCGAGAGCCGCGGGGCGCGTAGGAAGCCAACCTTCCCTGCTTCTCCGGGGCC CTCGCCCCCTCTCCCCAAAAATCAGGGATGGAGGCGCTCCCCGGCACCCTCTTAGCA GCCCTCCCCAGGAAAAGTGTCCCCCTGAGCTCCTAACGCTCCCCAACAGCTACCCTGC CCCCCACGCCATGGGGCCCGGGCCCCCTTTTGGCCGGTGGGGTGGCCACTGCCGCTTCT GGTTGTGATGGCGCAGGGGTGGCTCCGGTGTGGGCTCCCACTCCCCCATCTCCCGCG GCCTACTCGCGGTCCCCCGCACCCCTCCTCAGAACGGCGCGCAGTGTACATCGGGGC ACTGTTTCCCATGAGCGGGGCTGGCCAGGGGGCCAGGCCTGCCAGCCCGCGGTGGAGAT GGCGCTGGAGGACGTGAATAGCCGACGGGACATCCTGCCGACTATGAGCTCAAGCTCAT CCACCACGACAGCAAGTGTGATCCAGGCCAAGCCACCAAGTACCTATATGAGCTGCTCTA CAACGACCCTATCAAGATCATCCTTATGCCTGGCTGCAGCTCTGTCTCCACGCTGGTGGC TGAGGCTGCTANGATGTGGACCTCATTGTGCTTCTATGGCTCCAGCTCACCAGCCCT GTCAAACCGGCAGCGTTTCCCCACTTCTTCCGAACGCACCCATCAGCCACACTCCACAA CCCTACCCGCGTAAAACCTTTTAAAAGTGGGGGCTGGGAAGAAGATTGCTACCATCCAG CAGACCACTGGAGGGTCTCACTCGACTCTGGACACNCTGNAGGAACCAAGTGAAGGAGGC TGGAAATGAAATACTTTCGCCAA</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_021903 unedited GTACCGCGGCACGCAATCTAGTAGTCGAGNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTT TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCAAAAACACTGTTTCATTGGTTTATTGAAAT TCGGGGAAATCCTTCCCCAAAAACCCACAGGGGAAAGGGACCCCCCTCCCACCCCA TAGGCCCTTTTGTATCCAAACAGAAAAGGGGCGCTTCTTTTGGGAAGGATTTAATAA ATTTTCCATGAAAGCAGTTTTTCCAAACCTGCCCCATTTATTTTTCTTATTTCCCTA AAAAAACACAAAAACAAAAGGGACATTTTGGGAAAAAATAATGGGGAGGGAAAATGG GGGTATTCCTTAAATGCATGGGAAATGGGGGAATTCTGACAAAAATGGAATTTTGGGA CAAGGAAAGGGGGGGATGGCCCCACAAAACATGATTTGGGAAAAAGGGCATAAAATGGG GCAGGGTAGGGCACATATGGCTTTGCCAAAAAAAACCTTGTTTTAAGGGAAAAAGCCC CCAGGGCCCTTGGAGGTCCCAAGGAAAGTCCGGGATACCTGGGCCGGGCGCAAAAGGA AAAAAAGACTCACATGCTAAAAATTTGAAATGCCTCCCAAAACCCCTAGGGGAAACCTT AACCTGAAAGGGGCCCGTCTTTTAAATGGGGTGCCTCCAAACCCCTGTGGCTGAACCAAA AAAGCTCCGAAAAACGGGGGCCACAAGAATTGTTAGGGGCCCCCAAAAAGGGAGAA ACCCTGCTCCCTTCTCGGACTGCCATTCCACGAAGGCGTCTTTGGTTTCTTTCAATAA ATCCTCCCAAGGACCAACTAGGGGGGCCCTCCGAAAACCTCGGAGGGCATCAAACGAAA CATTTTCCGTGTTTATAGGAAGTCCCTCGGGGCGAAAAACTCTCAGAACCCCCCCACAA ACAATCTTT</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_021903
Insert Size:	3890 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).

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_021903.1 , NP_068703.1
RefSeq Size:	4039 bp
RefSeq ORF:	2535 bp
Locus ID:	2550
UniProt ID:	Q9UBS5
Cytogenetics:	6p22.1
Domains:	7tm_3, ANF_receptor
Protein Families:	Druggable Genome, GPCR, Secreted Protein, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
Gene Summary:	<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 (2) differs in the 5' UTR, lacks several exons in the 5' coding region, and initiates translation at an alternate start codon compared to variant 1. It encodes isoform b which has a distinct N-terminus and is shorter than isoform a.</p>