

## Product datasheet for **RC208503**

### **GABA B Receptor 1 (GABBR1) (NM\_021903) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GABA B Receptor 1 (GABBR1) (NM_021903) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GABA B Receptor 1
Synonyms:	GABABR1; GABBR1-3; GB1; GPRC3A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC208503 representing NM\_021903  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGCCCGGGGCCCTTTTCCCGGGTGGGGTGGCCACTGCCGCTTCTGGTTGTATGGCGGCAGGGG  
 TGGCTCCGGTGTGGGCTCCCACTCCCCCATCTCCCGGGCTCACTCGCGGGTCCCCCGCACCCCTC  
 CTCAGAACCGCGCGCAGTGTACATCGGGCACTGTTCCCATGAGCGGGGCTGGCCAGGGGCCAGGCC  
 TGCCAGCCCGGGTGGAGATGGCGCTGGAGGACGTGAATAGCCGCAGGGACATCTGCCGGACTATGAGC  
 TCAAGCTCATCCACCACGACAGCAAGTGTGATCCAGGCCAAGCCACCAAGTACCTATATGAGCTGCTCA  
 CAACGACCCTATCAAGATCATCCTTATGCCTGGCTGCAGCTCTGTCTCCACGCTGGTGGCTGAGGCTGT  
 AGGATGTGGAACCTCATTGTGCTTTCCTATGGCTCCAGCTCACCAGCCCTGTCAAACCGGCAGCGTTTCC  
 CCACTTTCTTCCGAACGCACCCATCAGCCACACTCCACAACCCTACCCGCGTAAACTCTTTGAAAAGTG  
 GGGCTGGAAGAAGATTGCTACCATCCAGCAGACCACTGAGGTCTTCACTTCGACTCTGGACGACCTGGAG  
 GAACGAGTGAAGGAGGCTGGAATTGAGATTACTTCCGCCAGAGTTTCTTCTCAGATCCAGCTGTGCCCCG  
 TCAAAAACCTGAAGCGCCAGGATGCCCGAATCATCGTGGGACTTTTCTATGAGACTGAAGCCCGAAAGT  
 TTTTGTGAGGTGTACAAGGAGCGTCTCTTGGGAAGAAGTACGTCTGGTTCTCATTGGGTGGTATGCT  
 GACAATTGGTTCAAGATCTACGACCCTTCTATCAACTGCACAGTGGATGAGATGACTGAGGCGGTGGAGG  
 GCCACATCACAAGTGAATGTGATGCTGAATCCTGCCAATACCCGCAGCATTCCAACATGACATCCCA  
 GGAATTTGTGGAGAACTAACCAAGCGACTGAAAAGACACCCTGAGGAGACAGGAGGCTTCCAGGAGGCA  
 CCGCTGGCCTATGATGCCATCTGGGCTTGGCACTGGCCCTGAACAAGACATCTGGAGGAGCGGCCGTT  
 CCGCGTGCCTTGGAGGACTTCAACTACAACAACCAGACCAATACCGACCAAATCTACCGGGCAATGAA  
 CTCTCGTCCTTTGAGGGTGTCTCTGGCCATGTGGTGTGGTATGATGCCAGCGGCTCTCGGATGGCATGGACG  
 CTTATCGAGCAGCTTCAAGGTGGCAGCTACAAGAAGATTGGTACTATGACAGCACCAGGATGATCTTT  
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 GTCTGTCTGTCTTAAACATCTACAACCTACATGTCCGTATATCCAGAAGTACAGCCCAACCTGAACA  
 ACCTGACTGCTGTGGGCTGCTCACTGGCTTGTAGCTGTCTTCCCCTGGGGCTCGATGGTTACACAT  
 TGGGAGGAACAGTTCCTTTTCGTCTGCCAGGCCCGCTCTGGCTCCTGGGCCTGGGCTTGTAGTCTGGC  
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 GGAGGAAGACTCTGGAACCCTGGAAGCTGTATGCCACAGTGGGCCTGCTGGTGGGATGGATGTCCTCAC  
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 GCATTTTCTATGGTTACAAGGGGCTGCTGCTGCTGCTGGGAATCTTCTTGTCTTATGAGACCAAGAGTGT  
 GTCCACTGAGAAGATCAATGATCACCGGGCTGTGGGCATGGCTATCTACAATGTGGCAGTCTGTGCCTC  
 ATCACTGCTCCTGTACCATGATTCTGTCCAGCCAGCAGGATGCAGCCTTGCCTTTGCCTCTCTTGCCA  
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 GGAATGGCAGTCGGAGGCGCAGGACACCATGAAGACAGGGTCACTGACCAACAACAACGAGGAGGAAG  
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 AACTGCGCCATCAACTCCAGTCTCGGCAGCAGCTCCGCTCCCGGCACCCACCACCCAGACCCCAAGAAC  
 CTCTGGGGCCTGCCAGGGGACCCCTGAGCCCCGACCGGCTTAGCTGTGATGGGAGTCAAGTGCAT  
 TTGCTTTATAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC208503 representing NM\_021903  
 Red=Cloning site Green=Tags(s)

MGPGAPFARVWPLPLLVMAGVAPVWASHSPHLPRPHSRVPPHPSSERRAVYIGALFPMSSGGWPGGQA  
 CQPAVEMALEDVNSRRDILPDYELKLIHHSKCDPGQATKYL YELLYNDPIKIIILMPGSSVSTLVAEAA  
 RMWNLIVLSYGSSPALSNRQRFPTFFRTHPSATLHNPTRVKLFEKWGWKKIATIQQTTEVFTSTLDDLE  
 ERVKEAGIEITFRQSFFSDPAVPVKNLKRQDARIIVGLFYETEARKVFCEVYKERLFGKKYVWFLIGWYA  
 DNWFKIYDPSINCTVDEMTEAVEGHITTEIVMLNPANTRISINMTSQEFVEKLTKRLKRHP EETGGFQEA  
 PLAYDAIWALALALNKTSGGGGRSGVRL EDFNYNNQITTDQIYRAMNSSSFEGVSGHVVFASGSRMAWT  
 LIEQLQGGSYKKIGYYDSTKDDL SWSKTDKWIGGSPADQTLVIKTRFLSQKLFISVSVLSSLGIVLAV  
 VCLSFNIYNSHVRYIQNSQPNLNNLTAVGCSLALAAVFPGLDGYHIGRNQFPFVCQARLWLLGLGFSLG  
 YGSMFTKIWWVHTVFTKKEEKEWRKTL EPWKLYATVGLLVGMDVLT LAIWQIVDPLHRTIETFAKEEPK  
 EDIDVSI LPQLEHCSSRKMNTWLGIFYGKGLLLLLGIFLAYETKSVSTEKINDHRAVGMAYNVAVLCCL  
 ITAPVTMILSSQQDAAF AFASLAI VFSYITLVVLFVPKMRRLITRGEWQSEAQDTMKTGSSTNNNEEEK  
 SRLLEKENRELEKIIAEKEERVSELRHQLQSRQQLRSRRHPPTPPEPSGGLPRGPPPEPPDRLSCDGSRVH  
 LLYK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

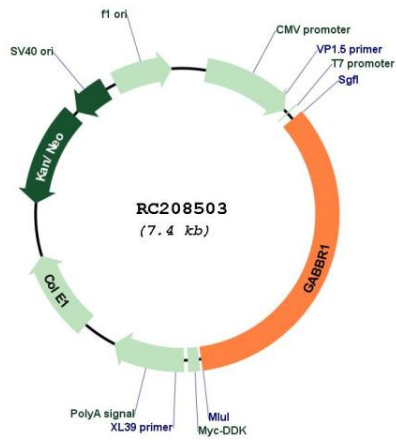
Sgfl-MluI

**Cloning Scheme:**



<b>ACCN:</b>	NM_021903
<b>ORF Size:</b>	2532 bp
<b>OTI Disclaimer:</b>	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>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_021903.2</a>
<b>RefSeq Size:</b>	4039 bp
<b>RefSeq ORF:</b>	2535 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>MW:</b>	92.2 kDa
<b>Gene Summary:</b>	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]

Product images:



Circular map for RC208503