

Product datasheet for **RC215515**

GABA B Receptor 1 (GABBR1) (NM_021904) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GABA B Receptor 1 (GABBR1) (NM_021904) 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:

>RC215515 representing NM_021904
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTGCTGCTGCTACTGGCGCCACTTCTCCGCCCCCGGGCGGGCGGGCGCAGACCCCA
 ACGCCACCTCAGAAGGTTGCCAGATCATACACCGCCCTGGGAAGGGGGCATCAGGTACCGGGCCTGAC
 TCGGGACCAGGTGAAGGCTATCAACTTCTGCCAGTGGACTATGAGATTGAGTATGTGTGCCGGGGGAG
 CGCGAGGTGGTGGGGCCCAAGGTCGCAAGTGCCTGGCCAACGGCTCCTGGACAGATATGGACACACCA
 GCCGCTGTGTGAATCGAACGCCACTCAGAACGGCGCGCAGTGTACATCGGGGCACTGTTTCCATGAG
 CGGGGGCTGGCCAGGGGGCCAGGCTGCCAGCCCGCGGTGGAGATGGCGCTGGAGGACGTGAATAGCCGC
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 CCAAGTACCTATATGAGCTGCTCTACAACGACCCTATCAAGATCATCCTTATGCCTGGCTGCAGCTCTGT
 CTCACGCTGGTGGCTGAGGCTGTAGGATGTGGAACCTCATTGTCTTCTATGGCTCCAGCTACCA
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 AAGACATCTGGAGGAGGCGCCGTTCTGGTGTGCGCCTGGAGGACTTCAACTACAACAACAGACCATTA
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 CAGCCTGGCATTGTCTAGCTGTTGTCTGTCTGCTTAAACATCTACAACACATGTCCGTTATATC
 CAGAACTCACAGCCCACTGAACAACCTGACTGCTGTGGGCTGCTCACTGGCTTTAGCTGCTGTCTTCC
 CCCTGGGCTCGATGTTACCACATTGGGAGGAACCAGTTCCTTTCGCTGCCAGGCCCGCTCTGGCT
 CCTGGGCTGGGCTTTAGTCTGGGCTACGTTCCATGTTACCAAGATTTGGTGGGTCCACACGGTCTTC
 ACAAGAAGGAAGAAAAGAGGAGTGGAGGAAGACTCTGGAACCTGGAAGCTGTATGCCACAGTGGGCC
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 TAGCTGTGATGGGAGTCGAGTGCATTTGCTTTATAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC215515 representing NM_021904
 Red=Cloning site Green=Tags(s)

MLLLLLLAPLFLRPPGAGGAQTPNATSEGCQIIHPPWEGGIRYRGLTRDQVKAINFLPVDYIEIYVCRGE
 REVVVGPKVRKCLANGSWTDMTPSRCVNRTPHSERRAVYIGALFPMSSGGWPGGQACQPAVEMALDVNSR
 RDILPDYELKLIHHDSCDPGQATKYL YELL YNDPIKIIILMPGCCSVSTLVAEAARMWNLIVLSYGSSSP
 ALSNRQRFPTFFRTHPSATLHNPTRVKLFKWKWKKIATIQQTTEVFTSTLDDLEERVKEAGIEITFRQS
 FFSDPAVPVKNLKRQDARIIVGLFYETEARVVFCEVYKERLFGKKYVWFLIGWYADNWFKIYDPSINCTV
 DEMTEAVEGHITTEIVMLNPANTRSISNMTSQEFVEKLTKRLKRHPEETGGFQEAPLAYDAIWALALAN
 KTSGGGGRSGVRLDFNYNNQITDQIYRAMNSSSFEGVSGHVVFASGSRMAWTLIEQLQGGSYKKIGY
 YDSTKDDL SWSKTDKWIGGSPADQTLVIKTRFRLSQKLFISVSVLSSLGIVLAVVCLSFNIYNHVRYI
 QNSQPNLNNLTAVGCSLAAAVFPLGLDGYHIGRNQFPFVCQARLWLLGLGFLGYGSMFTKIWWVHTVF
 TKKEEKKEWRKTLPEWKL YATVGLLVGMDVLT LAIWQIVDPLHRTIETF AKEEPKEDIDVSI LPQLEHCS
 SRKMNTWLGIFYGYKLLLLLGI FLAYETKSVSTEKINDHRAVGMAYINVAVLCLITAPVTMILSSQODA
 AF AFASLAIVFSSYITLVVLFVPKMRRLITRGEWQSEAQDTMKTGSSTNNNEEEKSRLLEKENRELEKII
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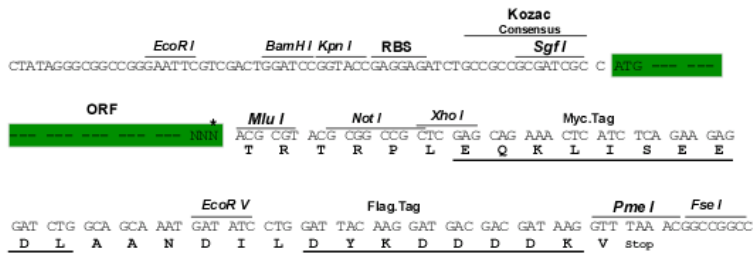
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6219_e12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:

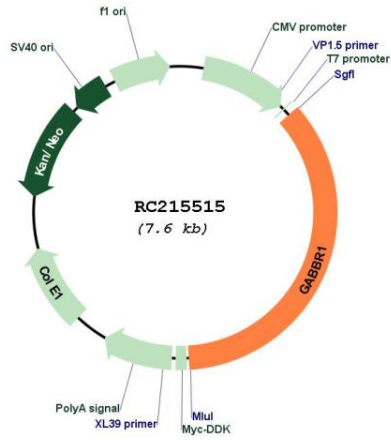


* The last codon before the Stop codon of the ORF

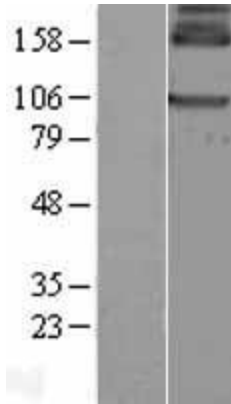
ACCN: NM_021904

ORF Size:	2697 bp
OTI Disclaimer:	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
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_021904.3
RefSeq Size:	4260 bp
RefSeq ORF:	2700 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
MW:	99.7 kDa
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]

Product images:



Circular map for RC215515



Western blot validation of overexpression lysate (Cat# [LY411876]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215515 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).