

## Product datasheet for **MG207969**

### **Glrb (BC037605) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Glrb (BC037605) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Glrb
Synonyms:	spastic, Glyrb
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG207969 representing BC037605  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAAGTTTTCTGGCAATCTCCTTTTTTATTTAATGCCTTGTGTTGAAGACGCTTGTGCTAAAG  
 AAAAGTCTTCCAAGAAAGGAAGGGGAAAAAGAAGCAGTACTTGTGCCATCTCAGCAGTACCCGAGGA  
 CCTGGCCCGTGTGCCCCCAACTCCACCAAGCAATATCTTGAACAGGCTGTGGTCAAGTTATGATCCAGG  
 ATCAGACCAAACCTCAAAGGCATTCTGTTGATGTAGTAGTCAACATTTTTATTAATAGTTTTGGATCCA  
 TTCAAGAGACAACAATGGACTATAGAGTTAACATTTTCTTGTAGACAGAAATGGAATGACCCAGACTCAA  
 GCTACCTAGTGACTTCAGAGGCTCAGATGCACTGACAGTTGACCCACCATGTATAAGTGCTTGTGGAAA  
 CCTGACTATTCTTTGCAAAATGAAAAAGTGCCAAATTTTATGATGTGACCCAAGAAAATATCCTGTTGT  
 TTATCTTTGGGATGGAGACGTCCTTGTGAGCATGAGGTTGTCTATTACACTTTTATGCTCCTTAGACTT  
 AACTCTGTTTCCATGGACACACAACGCTGCAAAATGCAACTTGAGAGCTTTGGATATACAACCGATGAT  
 TTAAGATTCATCTGGCAGTCAGGAGATCCTGTTCAAGTTGAAAAAATGCTTTACCTCAATTTGATATTA  
 AAAAGGAGGATATCGAATATGGCAACTGTACAAAATACTATAAAGGCACTGGTACTACACTTGTGTGGA  
 GGTCACTTACACCTGAGGAGACAGGTTGGGTTTACATGATGGGCGTATATGCACCAACCTTGCTGATT  
 GTGGTTCTCTCTGGCTCTCTTTCTGGATCAACCTGATGCTAGTGTGCCAGAGTACCTCTGGGCATCT  
 TCTCCGTGCTCAGTTTGGCCTCAGAGTGCACCACCTCGCAGCCGAGCTTCTAAAGTGTCTTATGTGAA  
 GGCCTGGATGTGTGGCTCATTGCCTGCCTGCTTTCGGGTTTGCTCCCTCGTGGAGTACGCTGTGGTC  
 CAGGTGATGCTGAACAATCCAAAAGGTTGAAGCCGAGAAGGCCGAATAGCTAAGGCTGAGCAAGCAG  
 ATGGGAAAAGGTGGAACGCAGCTAAGAAGAATACTGTAACGGCACGGGACCCCTGTTTATATCAGCAC  
 TTTGACAGTTGGTGAGACCAGATGCAAAAAAGTTTGTACTTCCAAGTCTGATTTGAGATCCAATGACTTC  
 AGCATTGTTGGAAGCTTACCAAGAGATTTTGAATTATCCAATTATGACTGCTATGGGAAACCCATCGAAG  
 TCAACAATGGACTTGGGAAACCACAGGCAAGAACAAGAAGCCTCCGCCTGCCAAGCCTGTATCCCAAC  
 AGCAGCCAAGCGCATCGACCTTTATGCAAGAGCATTATTTCTTTCTGCTTCTTGTCTTCAATGTTATA  
 TATTGGTCTATATATTA

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG207969 representing BC037605  
 Red=Cloning site Green=Tags(s)

MKFSLAISFFILMSLLFEDACAKEKSSKKGKGGKQYLCPSQQSPEDLARVPPNSTSNILNRLLVSYDPR  
 IRPNFKGIPVDVVVNIIFINSFGSIQETTM DYRVNIFLRQKWNDRPRLKLP SDFRGS DALTV DPTMYKCLWK  
 PDLFFANEKSANFHDVTQENILLFIFRDGDVLSMRLSITLSCPLDLTLFPMDTQRCKMQLESFGYTDD  
 LRFI WQSGDPVQLEKIALPQFDIKKEDIEYGNCTKYYKGTGYTCEVIFTLRRQVGFYMMGVYAPLLI  
 VVLSWLSFWINPDASAARVPLGIFSVLSLASECTTLAAELPKVSYVKALDVWLIACLLFGFASLVEYAVV  
 QVMLNPNKRVEAEKARIAKAEQADGKGGNAAKNTVNGTGTPVHISTLQVGETRCKKVCSTKSDLRSNDF  
 SIVGSLPRDFELSNYDCYKPIEVNNGLGKPAKNNKPPPAKPVIPAAKRIDL YARALFPFCFLFFNVI  
 YWSIYL

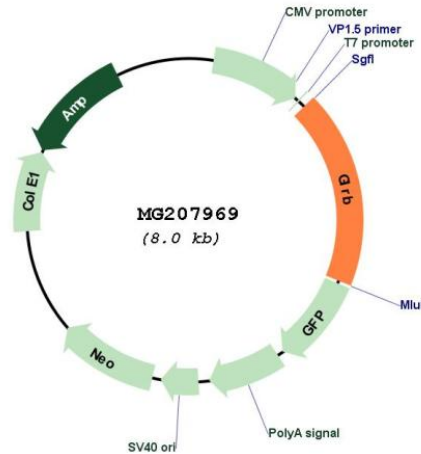
**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI



Plasmid Map:



**ACCN:** BC037605

**ORF Size:** 1490 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:**

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:** [BC037605](#), [AAH37605](#)

**RefSeq Size:** 3008 bp

**RefSeq ORF:** 1490 bp

**Locus ID:** 14658

**Cytogenetics:** 3 35.71 cM

**Gene Summary:** This gene encodes the beta subunit of the glycine receptor, which is a pentamer composed of alpha and beta subunits. The receptor functions as a neurotransmitter-gated ion channel, which produces hyperpolarization via increased chloride conductance due to the binding of glycine to the receptor. This gene is transcribed throughout the central nervous system of neonatal and adult mice. In humans, mutations in this gene cause startle disease, also known as hereditary hyperekplexia or congenital stiff-person syndrome, a disease characterized by muscular rigidity. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2016]