

## Product datasheet for **RG207619**

### GLRB (NM\_000824) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GLRB (NM_000824) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GLRB
Synonyms:	HKPX2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG207619 representing NM\_000824  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAAGTTTTTATTGACAACTGCCTTTTTAATTTAATTTCTTGTGGGTGGAAGAAGCCTATTCTAAGG  
 AAAAGTCTTCAAAGAAAGGGAAGGGGAAAAAGAAGCAGTATCTATGCCCATCTCAGCAGTCAGCAGAGGA  
 CCTTGCCCGAGTACCTGCCAACTCCACTAGCAATATCTTGAACAGGTTATTGGTCAGTTATGATCCAGG  
 ATAAGACCAAACCTCAAAGGCATTCTGTTGATGTAGTAGTCAACATTTTATTAACAGTTTTGGATCCA  
 TTCAAGAAACAACAATGGACTATAGAGTTAACATCTTCTGAGACAAAAATGGAATGACCCAGGCTGAA  
 GCTCCCCAGTGATTTTAGGGTTTCAAGTGCAGTGCAGTGGATCCAACAATGTACAAGTGTATGGAAA  
 CCTGATTTATTTTTGCAAAATGAAAAAGTGCCAAATTTTATGATGTGACCCAGGAAAACATCCTCTCT  
 TTATTTTTCGTGATGGAGATGCCTTGTGAGCATGAGGTTATCTATTACTCTTTCATGCCCTTTGGACTT  
 GACATTGTTTCCCATGGATACACAACGTTGCAAGATGCAACTGGAGAGCTTTGGTTACACAACCTGATGAT  
 TTACGATTTATCTGGCAGTCAGGAGATCCTGTGCAATTAGAAAAAATTCCTTGCCTCAATTTGATATCA  
 AAAAGGAAGATATTGAATATGGTAACTGTACAAAAACTATAAAGGCACGGGCTACTACACATGCCTGGA  
 AGTCATCTTACCCCTGAGGAGGCAGGTCGGCTTTTACATGATGGGGGTCTACGCCCAACCTGCTCATT  
 GTTGTCTCTCCTGGCTTTCCTTCTGGATCAACCCGGACGCGAGTGTGCCAGAGTGCCCTGGGTATCT  
 TCTCAGTCTCAGCTTGGCCTCTGAGTGCACAACCCTTGGCGTGAGCTTCCCAAAGTTTCTATGTGAA  
 GGCTCTTGATGTTTGGCTATTGCTTGCCTTCTTTGGGTTTGCTTCCCTGGTGGAGTATGCAGTTGTC  
 CAGGTGATGCTGAACAACCCAAAAGGTTGAAGCTGAAAAGCCAGAATTGCTAAGGCTGAGCAAGCAG  
 ATGGAAAAGGTGGAATGTGGCTAAAAAGAATACTGTGAATGGAACAGGGACTCCTGTTTCATATTAGCAC  
 TTTGCAGGTTGGTGAGACCAGATGCAAAAAAGTTTGTACTTCTAAGTCTGATCTGAGATCTAATGACTTC  
 AGCATTGTTGGAAGCTTACCAAGAGATTTTGAAGTATCCAATTATGACTGCTATGAAAACCCATTGAAG  
 TTAACAACGACTTGGGAAATCTCAGGCTAAGAACAACAAGAAGCCTCCCTGCGAAAACCTGTTATTCC  
 AACAGCAGCAAAGCGAATTGATCTTTATGCAAGAGCATTGTTCTTTCTGCTTCTGTTCTTCAATGTT  
 ATATATTGGTCTATATTTA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG207619 representing NM\_000824  
 Red=Cloning site Green=Tags(s)

MKFLLLTFAFLILISLWVEEAYSKEKSSKKGKGGKQYLCPSQQAEDLARVPANSTSNILNRLLVSYDPR  
 IRPNFKGIPVDVVVNIIFINSFGSIQETTM DYRVNIFLRQKWNDRPKLP SDFRGS DALTV DPTMYKCLWK  
 PDLFFANEKSANFHDTVQENILLFIFRDGDVLSMRLSITLSCPLDLTLFPMDTQRCKMQLESFGYTTDD  
 LRFI WQSGDPVQLEKIALPQFDIKKEDIEYGNCTKYYKGTGYTCEVIFTLRRQVGFYMMGVYAPTLII  
 VVLSWLSFWINPDASAARVPLGIFSVLSLASECTTLAAELPKVSYVKALDVWLIACLLFGFASLVEYAVV  
 QVMLNPNKRVEAEKARIAKAEQADGKGGNVAKKNTVNGTGTPVHISTLQVGETRCKKVCYSKSDLRSNDF  
 SIVGSLPRDFELSNYDCYKPIEVNNGLGKSAKNNKPPPAKPIPTAAKRIDL YARALFPFCFLFFNV  
 IYWSIYL

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_000824

**ORF Size:** 1491 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:** [NM\\_000824.4](#)

**RefSeq Size:** 2649 bp

**RefSeq ORF:** 1494 bp

**Locus ID:** 2743

**UniProt ID:** [P48167](#)

**Cytogenetics:** 4q32.1

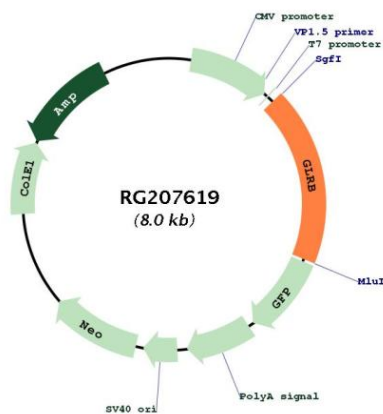
**Domains:** Neur\_chan\_memb, Neur\_chan\_LBD

**Protein Families:** Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane

**Protein Pathways:** Neuroactive ligand-receptor interaction

**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. 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, Oct 2009]

**Product images:**



Circular map for RG207619