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Product datasheet for MC227485

Glrb (NM_001281969) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glrb (NM_001281969) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Glrb
Synonyms:	AI853901; Glyrb; spa; spastic
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

Fully Sequenced ORF:

>MC227485 representing NM_001281969
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACTATAGAGTTAACATTTTCTTGAGACAGAAATGGAATGACCCCAGACTCAAGCTACCTAGTGACT
TCAGAGGCTCAGATGCACTGACAGTTGACCCCACCATGTATAAGTGCTTGTGGAAACCTGACTTATTCTT
TGCAAATGAAAAAAGTGCCAATTTTCATGATGTGACCCAAGAAAATATCCTGTTGTTTATCTTTCGGGAT
GGAGACGTCCTTGTGAGCATGAGGTTGTCTATTACACTTTCATGTCCTCTAGACTTAACTCTGTTTCCCA
TGGACACACAACGCTGCAAAATGCAACTTGAGAGCTTTGGATATACAACCGATGATTTAAGATTCATCTG
GCAGTCAGGAGATCCTGTTCAGTTGGAAAAAATTGCTTTACCTCAATTTGATATTAAAAAGGAGGATATC
GAATATGGCAACTGTACAAAATACTATAAAGGCACTGGTTACTACACTTGTGTGGAGGTCATCTTCACCC
TGAGGAGACAGGTTGGGTTCTACATGATGGGCGTATATGCACCAACCTTGCTGATTGTGGTTCTCTCCTG
GCTCTCTTTCTGGATCAACCCTGATGCTAGTGCTGCCAGAGTACCTCTGGGCATCTTCTCCGTGCTCAGT
TTGGCCTCAGAGTGCACCACCCTCGCAGCCGAGCTTCCTAAAGTGTCTTATGTGAAGGCGCTGGATGTGT
GGCTCATTGCCTGCCTGCTCTTCGGGTTTGCCTCCCTCGTGGAGTACGCTGTGGTCCAGGTGATGCTGAA
CAATCCCAAAAGGGTTGAAGCCGAGAAGGCCCGAATAGCTAAGGCTGAGCAAGCAGATGGGAAAGGTGGA
AACGCAGCTAAGAAGAATACTGTAAACGGCACGGGGACCCCTGTTCATATCAGCACTTTGCAGGTTGGTG
AGACCAGATGCAAAAAAGTTTGTACTTCCAAGTCTGATTTGAGATCCAATGACTTCAGCATTGTTGGAAG
CTTACCAAGAGATTTTGAATTATCCAATTATGACTGCTATGGGAAACCCATCGAAGTCAACAATGGACTT
GGGAAACCACAGGCAAAGAACAAGAAGCCTCCGCCTGCCAAGCCTGTCATCCCAACAGCAGCCAAGCGCA
TCGACCTTTATGCAAGAGCATTATTTCCTTTCTGCTTCTTGTTCTTCAATGTTATATATTGGTCTATATA
TTTATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Restriction Sites:	SgfI-MluI
ACCN:	NM_001281969
Insert Size:	1197 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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001281969.1, NP_001268898.1
RefSeq Size:	2979 bp
RefSeq ORF:	1197 bp
Locus ID:	14658
UniProt ID:	P48168
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] Transcript Variant: This variant (8) differs in the 5' UTR, uses a downstream start codon and lacks an alternate in-frame exon in the 3' coding region, compared to variant 1. It encodes isoform 7 which is shorter than isoform 1. Variants 7 and 8 encode the same isoform (7).