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Product datasheet for SC321743

GLRB (NM_000824) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GLRB (NM_000824) Human Untagged Clone
Tag:	Tag Free
Symbol:	GLRB
Synonyms:	HKPX2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>OriGene sequence for NM_000824.2
CTGGGACGCAGCTGCCCCCGCTCGGCGCCCGCTGCACCCTTAGCAGCCACTGCCACCTGG
GCCCGGAGCCTCCACGATCTCGCCCGGCGATTGTGGGCAGGGGCGCCTCCGGATCGATCT
TCTGAAATTCAAGTTTTCAAGATGAAGTTTTTATTGACAACTGCCTTTTTAATTTTAATT
TCCTTGTGGGTGGAAGAAGCCTATTCTAAGGAAAAGTCTTCAAAGAAAGGGAAGGGGAAA
AAGAAGCAGTATCTATGCCCATCTCAGCAGTCAGCAGAGGACCTTGCCCGAGTACCTGCC
AACTCCACTAGCAATATCTTGAACAGGTTATTGGTCAGTTATGATCCCAGGATAAGACCA
AACTTCAAAGGCATTCCTGTTGATGTAGTAGTCAACATTTTTATTAACAGTTTTGGATCC
ATTCAAGAAACAACAATGGACTATAGAGTTAACATCTTCCTGAGACAAAAATGGAATGAC
CCCAGGCTGAAGCTCCCCAGTGATTTTAGGGGTTCAGATGCACTGACAGTGGATCCAACA
ATGTACAAGTGTTTATGGAAACCTGATTTATTTTTTGCAAATGAAAAAAGTGCCAATTTT
CATGATGTGACCCAGGAAAACATCCTCCTCTTTATTTTTCGTGATGGAGATGTCCTTGTC
AGCATGAGGTTATCTATTACTCTTTCATGCCCTTTGGACTTGACATTGTTTCCCATGGAT
ACACAACGTTGCAAGATGCAACTGGAGAGCTTTGGTTACACAACTGATGATTTACGATTT
ATCTGGCAGTCAGGAGATCCTGTGCAATTAGAAAAAATTGCCTTGCCTCAATTTGATATC
AAAAAGGAAGATATTGAATATGGTAACTGTACAAAATACTATAAAGGCACGGGCTACTAC
ACATGCGTGGAAGTCATCTTCACCCTGAGGAGGCAGGTCGGCTTTTACATGATGGGGGTC
TACGCCCCAACCCTGCTCATTGTTGTTCTCTCCTGGCTTTCCTTCTGGATCAACCCGGAC
GCGAGTGCTGCCAGAGTGCCCCTGGGTATCTTCTCAGTCCTCAGCTTGGCCTCTGAGTGC
ACAACCCTTGCCGCTGAGCTTCCCAAAGTTTCCTATGTGAAGGCTCTTGATGTTTGGCTT
ATTGCTTGCCTTCTCTTTGGGTTTGCTTCCCTGGTGGAGTATGCAGTTGTCCAGGTGATG
CTGAACAACCCCAAAAGGGTTGAAGCTGAAAAAGCCAGAATTGCTAAGGCTGAGCAAGCA
GATGGAAAAGGTGGAAATGTGGCTAAAAAGAATACTGTGAATGGAACAGGGACTCCTGTT
CATATTAGCACTTTGCAGGTTGGTGAGACCAGATGCAAAAAAGTTTGTACTTCTAAGTCT
GATCTGAGATCTAATGACTTCAGCATTGTTGGAAGCTTACCAAGAGATTTTGAACTATCC
AATTATGACTGCTATGGAAAACCCATTGAAGTTAACAACGGACTTGGGAAATCTCAGGCT
AAGAACAACAAGAAGCCTCCCCCTGCGAAACCTGTTATTCCAACAGCAGCAAAGCGAATT
GATCTTTATGCAAGAGCATTGTTTCCTTTCTGCTTCTTGTTCTTCAATGTTATATATTGG
TCTATATATTTATGATAAATCTTTTCCATTTGTACAAAATAAAATTCCATTTCATTGTGA
CCTACTCCTTTCATAAATGCCAATCTGTGAGAACTTTTGAATTTTCATAGCAACATTGCA
TTTTGGATGCCATTTGATTGTAATAAAACTGTGGCACCTTAATTTTGAATGGCAGCATGA
TCATGTAATATCTGTGCTCTAATAACGATGTATATATGTATAGTGAACATATTGCTTAGT
AACAAATGAAGGACAAGCATACTACATAATATAATCCATACAATTCTCTTCAGTTAGTGT
AAACTGCAAATACTACAGATAATTCTGATAATAAAATGATATGCACGCTGAATCCTGCTA
TGGTCACCATTCTAATGTATGTAGTATTTCAAATTTCCTTCCTTGTAACTTTCAAAGAAA
GCCATCTTATTCTTGTAATTTTAGATGGTATTATCACAGATTTAAAAAGGTTGTATTACA
TATTGTTTAAACTTTGTAAGTAGAAATATATCTGTTATAATTATACAGGCTCTGTGGAGA
AATAAAGTTCAAAATATATTAATTTGTAAAATCAGCTCGTTTTAAAGTGTGCTTGTGTTG
TCAAAAATATCAGATAGTAATACACAGTGAGCATTTTTAAACAAAGGGAAACCTATATTT
ATGTAACTGTATACTGAATTCTGACAAAATAAAAAAAGATACCTTATTGACGAAATATTT
AGGATAAACAAAATTCTATTTAATCCACCTTAAAACCTAAATGTATTTTCATGGATTTCA
TTTGTTGGTACATATTACACAAAACATTGTGCCTTAAAATGAGTCATACATCTTTTAAAT
TGGAATGCAGTAATAGATATGTGATTTTACATCATTTTTAAGAAACCAAGGGGAAGTAAT
AAGTTGAAAAAGAAATCCATAACTATTAAAAGATTTTAACTTTTTTATTTTATTAAAATG
CTTGCATATTTTAAGTAAAATTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_000824

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:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_000824.2, NP_000815.1
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] Transcript Variant: This variant (1, also known as variant A) represents the longest transcript and encodes the longer isoform (A). Both variants 1 and 2 encode the same isoform.