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Product datasheet for SC326873

GLRB (NM_001166061) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GLRB (NM_001166061) Human Untagged Clone
Tag:	Tag Free
Symbol:	GLRB
Synonyms:	HKPX2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC326873 representing NM_001166061. Blue=Insert sequence Red=Cloning site Green=Tag(s) GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC ATGAAGTTTTTATTGACAACTGCCTTTTTAATTTTAATTTCCTTGTGGGTGGAAGAAGCCTATTCTAAG GAAAAGTCTTCAAAGAAAGGGAAGGGGAAAAAGAAGCAGTATCTATGCCCATCTCAGCAGTCAGCAGAG GACCTTGCCCGAGTACCTGCCAACTCCACTAGCAATATCTTGAACAGGTTATTGGTCAGTTATGATCCC AGGATAAGACCAAACTTCAAAGGCATTCCTGTTGATGTAGTAGTCAACATTTTTATTAACAGTTTTGGA TCCATTCAAGAAACAACAATGGACTATAGAGTTAACATCTTCCTGAGACAAAAATGGAATGACCCCAGG CTGAAGCTCCCCAGTGATTTTAGGGGTTCAGATGCACTGACAGTGGATCCAACAATGTACAAGTGTTTA TGGAAACCTGATTTATTTTTTGCAAATGAAAAAAGTGCCAATTTTCATGATGTGACCCAGGAAAACATC CTCCTCTTTATTTTTCGTGATGGAGATGTCCTTGTCAGCATGAGGTTATCTATTACTCTTTCATGCCCT TTGGACTTGACATTGTTTCCCATGGATACACAACGTTGCAAGATGCAACTGGAGAGCTTTGGTTACACA ACTGATGATTTACGATTTATCTGGCAGTCAGGAGATCCTGTGCAATTAGAAAAAATTGCCTTGCCTCAA TTTGATATCAAAAAGGAAGATATTGAATATGGTAACTGTACAAAATACTATAAAGGCACGGGCTACTAC ACATGCGTGGAAGTCATCTTCACCCTGAGGAGGCAGGTCGGCTTTTACATGATGGGGGTCTACGCCCCA ACCCTGCTCATTGTTGTTCTCTCCTGGCTTTCCTTCTGGATCAACCCGGACGCGAGTGCTGCCAGAGTG CCCCTGGGTTGGTGA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
Restriction Sites:	SgfI-MluI

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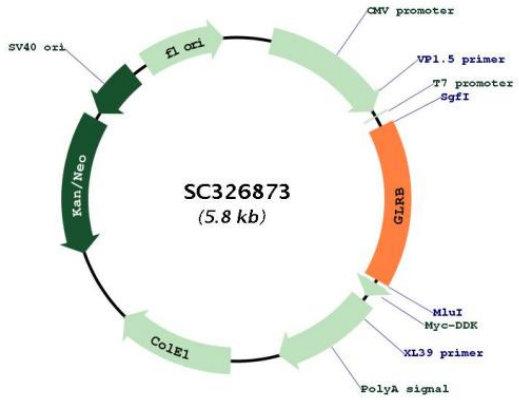
Plasmid Map:



ACCN:	NM_001166061
Insert Size:	912 bp
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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 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_001166061.1
RefSeq Size:	2783 bp
RefSeq ORF:	912 bp
Locus ID:	2743
UniProt ID:	P48167
Cytogenetics:	4q32.1
Protein Families:	Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
MW:	34.9 kDa
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 (3, also known as GlyR beta delta8) lacks an alternate internal exon that causes a frameshift in the 3' coding region, compared to variant 1. The encoded isoform (B) has a distinct C-terminus and is shorter than isoform A.