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Product datasheet for SC335639

alpha 1 Glycine Receptor (GLRA1) (NM_001292000) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	alpha 1 Glycine Receptor (GLRA1) (NM_001292000) Human Untagged Clone
Tag:	Tag Free
Symbol:	GLRA1
Synonyms:	HKPX1; STHE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC335639 representing NM_001292000. Blue=Insert sequence Red=Cloning site Green=Tag(s) GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC ATGGACTATAGGGTCAACATCTTCCTGCGGCAGCAATGGAACGACCCCCGCCTGGCCTATAATGAATAC CCTGACGACTCTCTGGACCTGGACCCATCCATGCTGGACTCCATCTGGAAACCTGACCTGTTCTTTGCC AACGAGAAGGGGGCCCACTTCCATGAGATCACCACAGACAACAAATTGCTAAGGATCTCCCGGAATGGG AATGTCCTCTACAGCATCAGAATCACCCTGACACTGGCCTGCCCCATGGACTTGAAGAATTTCCCCATG GATGTCCAGACATGTATCATGCAACTGGAAAGCTTTGGATATACGATGAATGACCTCATCTTTGAGTGG CAGGAACAGGGAGCCGTGCAGGTAGCAGATGGACTAACTCTGCCCCAGTTTATCTTGAAGGAAGAGAAG GACTTGAGATACTGCACCAAGCACTACAACACAGGTAAATTCACCTGCATTGAGGCCCGGTTCCACCTG GAGCGGCAGATGGGTTACTACCTGATTCAGATGTATATTCCCAGCCTGCTCATTGTCATCCTCTCATGG ATCTCCTTCTGGATCAACATGGATGCTGCACCTGCTCGTGTGGGCCTAGGCATCACCACTGTGCTCACC ATGACCACCCAGAGCTCCGGCTCTCGAGCATCTCTGCCCAAGGTGTCCTATGTGAAAGCCATTGACATT TGGATGGCAGTTTGCCTGCTCTTTGTGTTCTCAGCCCTATTAGAATATGCTGCCGTTAACTTTGTGTCT CGGCAACATAAGGAGCTGCTCCGATTCAGGAGGAAGCGGAGACATCACAAGGAGGATGAAGCTGGAGAA GGCCGCTTTAACTTCTCTGCCTATGGGATGGGCCCAGCCTGTCTACAGGCCAAGGATGGCATCTCAGTC AAGGGCGCCAACAACAGTAACACCACCAACCCCCCTCCTGCACCATCTAAGTCCCCAGAGGAGATGCGA AAACTCTTCATCCAGAGGGCCAAGAAGATCGACAAAATATCCCGCATTGGCTTCCCCATGGCCTTCCTC ATTTTCAACATGTTCTACTGGATCATCTACAAGATTGTCCGTAGAGAGGACGTCCACAACCAGTGA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
Restriction Sites:	SgfI-MluI

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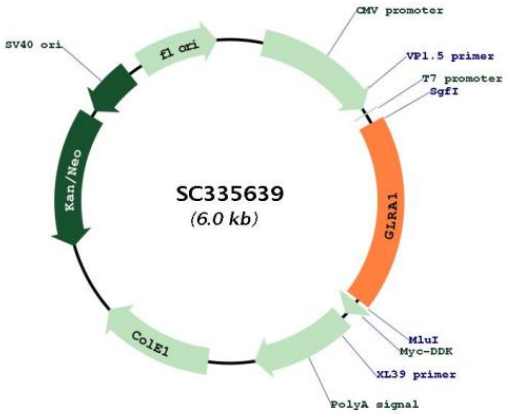
Plasmid Map:



ACCN:	NM_001292000
Insert Size:	1101 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).
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_001292000.1
RefSeq Size:	1683 bp
RefSeq ORF:	1101 bp
Locus ID:	2741
Cytogenetics:	5q33.1
Protein Families:	Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction

MW:	42.5 kDa
Gene Summary:	The protein encoded by this gene is a subunit of a pentameric inhibitory glycine receptor, which mediates postsynaptic inhibition in the central nervous system. Defects in this gene are a cause of startle disease (STHE), also known as hereditary hyperekplexia or congenital stiff-person syndrome. Multiple transcript variants encoding different isoforms have been found. [provided by RefSeq, Dec 2015] Transcript Variant: This variant (3) lacks an internal exon in the 5' region, which results in translation initiation at a downstream AUG start codon, and contains an alternate splice site at the 5' end of the last exon, compared to variant 1. The resulting isoform (3) has a shorter N-terminus and lacks an internal segment in the C-terminal region, compared to isoform 1.