

## Product datasheet for **SC327542**

### alpha 1 Glycine Receptor (GLRA1) (NM\_001146040) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	alpha 1 Glycine Receptor (GLRA1) (NM_001146040) Human Untagged Clone
Tag:	Tag Free
Symbol:	alpha 1 Glycine Receptor
Synonyms:	HKPX1; STHE
Mammalian Cell Selection:	Neomycin
Vector:	<u>PCMV6-Neo</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_001146040 edited  
 CAACAGACACGCTGGAGTTTAAACAAACAGCAATACTCTTCGCGCTCCTGAAAAGCAGGTC  
 TGGACGCTCTCCGTGGTCTGAAACGCCTCGTAGCCGCCGCTGTCCGTGGTATCTACGAC  
 CCCCTCGCTCAAATTTCCCTGGGGCTCTCCCTCCGCGCCCTGTTCCCGCCTCCCTTT  
 AACATCTGGATTATTTTTGCAATAGCGCTTTCTGGTTTTGTAAGTGCCAATTTGAAACA  
 TTTTTGCCCCATAACTCGTGGACTACAAAGCACAAAGGACCTGAAAAATGTACAGCTTCA  
 ATACTCTCGACTCTACCTTTGGGAGACCATTGTATTCTTCAGCCTTGCTGCTTTAAGG  
 AGGCTGAAGCTGCTCGCTCCGCACCCAAGCCTATGTCACCCCTCGATTTCCTGGATAAGC  
 TAATGGGAGAACCTCCGGATATGATGCCAGGATCAGGCCCAATTTTAAAGGTCCCCCAG  
 TGAACGTGAGCTGCAACATTTTCATCAACAGCTTTGGTCCATTGCTGAGACAACCATGG  
 ACTATAGGGTCAACATCTTCTGCGGCAGCAATGGAACGACCCCCGCTGGCCTATAATG  
 AATACCCTGACGACTCTGACCTGGACCCATCCATGCTGGACTCCATCTGAAACCTG  
 ACCTGTTCTTTGCCAACGAGAAGGGGGCCCACTCCATGAGATCACCACAGACAACAAAT  
 TGCTAAGGATCTCCCGAATGGGAATGTCCTCTACAGCATCAGAATCACCTGACACTGG  
 CCTGCCCATGGACTTGAAGAATTTCCCATGGATGTCCAGACATGTATCATGCAACTGG  
 AAAGCTTTGGATATACGATGAATGACCTCATCTTTGAGTGGCAGGAACAGGGAGCCGTGC  
 AGGTAGCAGATGGACTAACTCTGCCCAAGTTTATCTTGAAGGAAGAGAAGGACTTGAGAT  
 ACTGCACCAAGCACTACAACACAGGTAATTCACCTGCATTGAGGCCCGTTCCACCTGG  
 AGCGGCAGATGGGTTACTACCTGATTCAGATGTATATCCAGCCTGCTCATTGTTCATCC  
 TCTCATGGATCTCCTTCTGGATCAACATGGATGCTGCACCTGCTCGTGTGGGCCTAGGCA  
 TCACCACTGTGCTCACCATGACCACCCAGAGCTCCGGCTCTCGAGCATCTTGCCCAAGG  
 TGTCCTATGTAAAGCCATTGACATTTGGATGGCAGTTTGCCTGCTCTTTGTGTTCTCAG  
 CCCTATTAGAATATGCTGCCGTTAACTTTGTGTCTCGGCAACATAAGGAGCTGCTCCGAT  
 TCAGGAGGAAGCGGAGACATCACAAAGAGCCCATGTTGAATCTATTCCAGGAGGATGAAG  
 CTGGAGAAGGCCGCTTTAACTTCTCTGCCTATGGGATGGGCCAGCCTGTCTACAGGCCA  
 AGGATGGCATCTCAGTCAAGGGCGCCAACAACAGTAACACCACCAACCCCTCTCTGCAC  
 CATCTAAGTCCCCAGAGGAGATGCGAAAACCTTTCATCCAGAGGGCCAAGAAGATCGACA  
 AAATATCCCGCATTGGCTTCCCATGGCCTTCTCATTTCACATGTTCTACTGGATCA  
 TCTACAAGATTGTCGTAGAGAGGACGTCCACAACCAAGTGAAGGGTCTGAAAGGTTGGG  
 GAGGCTGGGAGAGGGGAACGTGGGAAT

**Restriction Sites:** Please inquire

**ACCN:** NM\_001146040

**Insert Size:** 1700 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](mailto: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](#)

<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_001146040.1</a></u> , <u><a href="#">NP_001139512.1</a></u>
<b>RefSeq Size:</b>	1835 bp
<b>RefSeq ORF:</b>	1374 bp
<b>Locus ID:</b>	2741
<b>UniProt ID:</b>	<u><a href="#">P23415</a></u>
<b>Cytogenetics:</b>	5q33.1
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane
<b>Protein Pathways:</b>	Neuroactive ligand-receptor interaction
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).</p>