

Product datasheet for **SC310373**

alpha 1 Glycine Receptor (GLRA1) (NM_000171) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	alpha 1 Glycine Receptor (GLRA1) (NM_000171) Human Untagged Clone
Tag:	Tag Free
Symbol:	alpha 1 Glycine Receptor
Synonyms:	HKPX1; STHE
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_000171 edited
 GCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTCCTTGCAGGGAGCTGGCCGTTT
 AAACAGAAAAACAGGGGTTTAAAAAAAAAAAAAAAAAAGGAAATATACCCACCCCAAC
 GTGCCTCCCAGCGCCGAGGGAGCCAACAGACACGCTGGAGTTTAAACAAACAGCAATAC
 TCTTCGCGCTCCTGAAAAGCAGGTCTGGACGCTCTCCGTGGTGTGAAACGCCTCGTAGC
 CGCCGCTGTCCGTGGTATCTACGACCCCTCGTCCAATTTCCCTGGGGCTCTCCCTCC
 GCGCCCTGTTCCCGCCTCCCTTTAACATCTGGATTATTTTTTGCAATAGCGCTTCTG
 GTTTTGTAAAGTGCCAATTTGAAACATTTTTGCCCCATAACTCGTGGACTACAAAGCACA
 AGGACCTGAAAAATGTACAGCTTCAATACTCTTCTGACTCTACCTTTGGGAGACCATTGTA
 TTCTTCAGCCTTGTGCTTCTAAGGAGGCTGAAGCTGCTCGCTCCGCACCCAAGCCTATG
 TCACCCTCGGATTTCTGGATAAGCTAATGGGAGAACCCTCCGGATATGATGCCAGGATC
 AGGCCCAATTTTAAAGTCCCCAGTGAACGTGAGCTGCAACATTTTCATCAACAGCTTT
 GGTTCATTGCTGAGACAACCATGGACTATAGGGTCAACATCTTCTGCGCAGCAATGG
 AACGACCCCGCCTGGCCTATAATGAATACCCTGACGACTCTCTGGACCTGGACCATCC
 ATGCTGGACTCCATCTGGAACCTGACCTGTTCTTTGCCAACGAGAAGGGGGCCACTTC
 CATGAGATCACACAGACAACAAATTGCTAAGGATCTCCCGAATGGGAATGTCCCTAC
 AGCATCAGAATCACCTGACACTGGCCTGCCCATGGACTTGAAGAATTTCCCATGGAT
 GTCCAGACATGTATCATGCAACTGGAAAGCTTTGGATATACGATGAATGACCTCATCTTT
 GAGTGGCAGGAACAGGGAGCCGTGCAGGTAGCAGATGGACTAACTCTGCCCCAGTTTATC
 TTGAAGGAAGAGAAGGACTTGAGATACTGCACCAAGCACTACAACACAGGTAAATTCACC
 TGCATTGAGGCCCGTTCCACCTGGAGCGCAGATGGGTACTACCTGATTGATGATGAT
 ATTTCCAGCCTGCTCATTGTATCCTCTCATGGATCTCCTTCTGGATCAACATGGATGCT
 GCACCTGCTCGTGTGGCCTAGGCATCACCCTGTGCTCACCATGACCACCCAGAGCTCC
 GGCTCTCGAGCATCTCTGCCAAGGTGTCTATGTGAAAGCCATTGACATTTGGATGGCA
 GTTTGCCTGCTCTTTGTGTTCTCAGCCCTATTAGAATATGCTGCCGTTAACTTTGTGCT
 CGGCAACATAAGGAGCTGCTCCGATTCAGGAGGAAGCGGAGACATCACAAGGAGGATGAA
 GCTGGAGAAGGCCGCTTTAACTTCTCTGCCTATGGGATGGGCCAGCCTGTCTACAGGCC
 AAGGATGGCATCTCAGTCAAGGGCGCCAACAACAGTAACACCACCAACCCCTCCTGCA
 CCATCTAAGTCCCAGAGGAGATGCGAAACTCTTCATCCAGAGGGCCAAGAAGATCGAC
 AAAATATCCCGCATTGGCTTCCCATGGCCTTCTCATTTCACATGTTCTACTGGATC
 ATCTACAAGATTGTCGTAGAGAGGACGTCCACAACCAGTGAAGGTCTGAAAGTTGGG
 GGAGGCTGGGAGAGGGGAACGTGGGAATAGCACAGGAATAGGGGCAATTCAGATCTGGT
 ACCGATATCAAGCTTGTGACTCTAGATTGCGGCCG

5' Read Nucleotide Sequence: >OriGene 5' read for NM_000171 unedited
 TCCCGTCANAAATGTATACGACTCATATAGCGGCCGCAATCTAGAGTCGAGTTTTTTT
 TTTTTTTTTTCTTGCAGGGAGCTGGCCGTTTAAACAGAAAAACAGGGTTTAAAAAAAAA
 AAAAAAAAAAGGAAATATACCCACCCCAACGTGCCTCCCAGCGCCGAGGGAGCCAAC
 AGACACGCTGGAGTTTAAACAAACAGCAATACTTTCGCGCTCCTGAAAAGCAGGTCTGGA
 CGCTCTCCGTGGTGTGAAACGCCTCGTAGCCGCGCTGTCCGTGGTATCTACGACCC
 TCGCTCCAATTTCCCTGGGGCTCTCCCTCCGCGCCCTGTTCCCGCCTCCCTTTAAACA
 TCTGGATTATTTTTGCAATAGCGCTTCTGGTTTTGTAAGTGCCAATTTGAAACATTTT
 TGCCCCATAACTCGTGGACTACAAAGCACAAGGACCTGAAAAATGTACAGCTTCAATAC
 TCTTCGACTCTACCTTTGGGAGACCATTGTATTCTTCAGCCTTGTGCTTCTAAGGAGGC
 TGAAGCTGCTCGCTCCGACCCAAGCCTATGTCACCCTCGGATTTCTGGATAAGCTAAT
 GGGGAGAACCCTCCGATATGATGCCAGGATCAGGCCCAATTTTAAAGTCCCCAGTGAA
 CGTGAGCTGCAACATTTTCATCAACAGCTTTGGTTCCATTGCTGAGCAACCATGGACTAT
 AGGGTCAACATCTTCTGCGCAGCAATGGAACGACCCCGCCTGGCCTATAATGAATAC
 CCTGACGACTCTGACCTGGACCATCCATGCTGGACTCCATCTGAAACCTGACCTG
 TTCTTTGCCAACGAGAAGGGGGCCACTTCCATGAGATCACACAGACACAAATGCTAAG
 GATCTCC

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_000171 unedited CCCTGCTATGGCGAGGCAACTTCCAGGGCAGGNATAGCACTGGGGGAGGGTCACAGGGCT GCCACCCGGGCACTGTTCCAGGAAACAGCTATGACCGCGGCCGCAATCTAGAGTCGACAAG CTTGATATCGGTACCAGATCTGAATTCGCCCTTATTCTGTGCTATTCACAGTTCCCT CTCCCAGCCTCCCCAACCTTTCAGACCCTTCACTGGTTGTGGACGTCTCTCTACGGAC AATCTTGTAGATGATCCAGTAGAACATGTTGAAAATGAGGAAGGCCATGGGGAAGCCAAT GCGGGATATTTTGTGATCTTCTTGGCCCTCTGGATGAAGAGTTTTCGCATCTCCTCTGG GGACTTANATGGTGCAGGAGGGGGTGGTGGTGTACTGTTGTTGGCGCCCTTGACTGA GATGCCATCCTTGGCCTGTAGACAGGCTGGGCCATCCCATAGGCAGAGAAGTTAAAGCG GCCTTCTCCAGCTTCATCCTCCTGTGATGTCTCCGCTTCTCCTGAATCGGAGCAGCTC CTTATGTTGCCGAGACACAAAGTTAACGGCAGCATATTCTAATAGGGCTGAGAACACAAA GAGCAGGCAAACCTGCCATCCAAATGTCAATGGCTTTCACATAGGACACCTTGGGCAGAGA TGCTCGAGAGCCGGAGCTCTGGGTGGTCATGGTGAGCACAGTGGTATGCCTAGGCCAC ACGAGCAGGTGCAGCATCCATGTTGATCCAGAAGAGATCCATGAGAGGATGACAATGAG CAGGCTGGGAATATACATCTGAATCAGGTAGTAACCCATCTGCCCTCCAGGTGGAACCG GGCCCTCATGCAGGTGAATTTACCTGTGTGTANTGCTTGGTGCAGTATCTCAAGTCCTT CTTCTC
Restriction Sites:	Please inquire
ACCN:	NM_000171
Insert Size:	1870 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:	There is 4 nucleotide difference between the OriGene clone and the NCBI reference ORF. These result in the substitution of 4 aa.
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:	<ol style="list-style-type: none"> 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:	<u>NM_000171.1</u> , <u>NP_000162.1</u>
RefSeq Size:	1715 bp
RefSeq ORF:	1350 bp
Locus ID:	2741
UniProt ID:	<u>P23415</u>
Cytogenetics:	5q33.1

Protein Families:	Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
Gene Summary:	<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 (2) uses an alternate in-frame splice site at the 5' end of the last exon compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is shorter compared to isoform 1.</p>