

## Product datasheet for **SC110908**

### alpha 2 Glycine Receptor (GLRA2) (NM\_002063) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	alpha 2 Glycine Receptor (GLRA2) (NM_002063) Human Untagged Clone
Tag:	Tag Free
Symbol:	alpha 2 Glycine Receptor
Synonyms:	GLR
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_002063, the custom clone sequence may differ by one or more nucleotides

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ATGAACCGGCAGCTAGTGAACATTTTGACAGCCTTGTTTGCATTTTTCTTAGAGACAAACCACTTCAGGA  
CGGCTTTCTGCAAAGACCATGACTCCAGGTCTGGAAAACAACCTTACAGACCCTATCTCCTTCAGATTT  
CTTGGACAAGTTAATGGGAAGGACATCAGGATATGATGCAAGAATCAGGCCAAATTTTAAAGTCTCCA  
GTA AACGTTACTTGCAATATTTTTATCAACAGTTTTGGATCAGTCACAGAAACGACCATGGACTACCGAG  
TGAATATTTTTCTGAGACAACAGTGAATGATTCACGGCTGGCGTACAGTGAGTACCCAGATGACTCCCT  
GGACTTGGACCCATCCATGCTAGACTCCATTTGAAAACAGATTTGTTCTTTGCCAATGAGAAGGGTGCC  
AACTTCCAGATGTCACCACTGACAACAATTGCTACGGATTTGAAAAATGGCAAAGTGTCTACAGTA  
TCAGACTCACCTTGACCTTATCCTGTCCATGGACTTGAAGAAGTTCCGATGGATGTCCAGACCTGAC  
AATGCAGCTGGAGAGTTTTGGGTACACGATGAATGACCTGATATTTGAGTGGTTAAGTGATGGTCCAGTG  
CAAGTTGCTGAAGGATTGACCCTGCCCCAGTTTATTTTGAAGAAGAGAAGGAAGTGGCTACTGTACAA  
AGCACTACAACACTGGAAAGTTTACCTGCATTGAGGTCAAGTTTCATCTGGAACGCCAAATGGGATATTA  
TTTGATCCAGATGTACATCCCAAGCCTGCTTATAGTAATTTTGTCTGGGTTTCTTTGGATAAATATG  
GATGCAGCCCCTGCCAGGTGCGCACTGGGCATCACCACAGTCTAACGATGACCACCCAGAGTTCAGGCT  
CCAGGGCATCTCTGCCAAAGTCTCCTATGTAAAAGCGATTGACATCTGGATGGCGGTGTGCCTTCTGTT  
TGTGTTTGTGCCTTACTGGAATACGCAGCGGTGAACCTTCGTCTCCAGGCAACACAAGGAGTTCCTGGCG  
CTCCGAAGAAGACAGAAGAGGCAGAATAAGGAAGAAGACGTTACTCGTGAAGTCTGTTTTAATTTTAGCG  
GTTATGGGATGGGTCACTGCCTCCAAGTAAAAGATGGAACAGCTGTCAAGGCCACACCTGCCAACCCACT  
CCCACAACCGCCAAAAGATGGAGATGCTATCAAGAAGAAGTTTGTGGACCGGGCAAAAAGGATTGACACG  
ATATCTCGAGCTGCCTTCCCATTTGGCCTTCTCATTTCATTTCAACATCTTTTACTGGATCACATACAAGATCA  
TTCGGCATGAAGATGTCCACAAGAAATAG
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_002063 unedited</p> <pre>NNGGTTCAAATTTTGTAAATACGACTCACTATAGGGCGGCCGNAATTCGCACGAGGCCT CATTCCAGCACAGGATCTCAGCAATTTTCCCTCTTCCCCCACCCTCCAGCGCGCAG AGTCCTTTCTCTCTCATTACAACTCTTTTTAAAAGAAAACATTTCTAGAAAAAG GGCTTTGNCTAAACANGAAAAGATATAAAACAAAAGCCACAGCTATCTAGCATGGCATTG TCACCAACTCCCTTTGCATGGTGATGCGATTAAGGTAGCAGCATTTTTATTATTACAGGAA AAGCAGCTGGGGATTTCATCAGTTCTGAGGCTTTGTCTTTCTGGGTTAACTGATGGTCCC AAGCCTCGGTTTGACCTGACCATGATGCCAGGACTGGCACTTTTTCTTTTTCTCAGCA AACTGTACAAAACCAAATCTCTTTTTGATTTTCAAGGAACTAGTTCTGCCAAATTTT GAATCTGGACAATAAACAGACACTTTGTCTAGCATCTTCTGGAATCATTTTCGGGATAT TTTCCACAAGCAACACAGAAACAGGAATGAACCGGCAGCTAGTGAACATTTTGACAGCCT TGTTTGCAATTTTCTTAGAGACAAACCTTCAGGACGGCTTTCTGCAAAGACCATGACT CCAGGTCTGGAACAACCTTCACAGACCCTATCTCCTCAGATTTCTGGACAAGTTAA TGGGAAGGACATCAGGATATGATGCAAGAATCAGGCCAAATTTAAAGTTTGGATCAGT CACAGAAACGACCATGGGCTNCTGTNAATGTTACCCTGCACATTTTATCAACAGCTTT GGGTCAATAGCAGAACTANCATGGACTACCGAGTGAATATTTTTCTGAGACACAGTGA ATGATTN</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_002063 unedited</p> <pre>TGACCGCGGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTGGCGCACACTTAGCT TTATTGAAATTGAACAAATGCTTTTTAAAATAACCCCTGTACAGCACATGTAATTTTA ATTATTATTTTTACAGGTTGTCTTTTATCTGAGTAAGCAAAAATACGCTTTTTTTTTT CTTACTTAAAACATGTAGCCAGAATTCAAACCAGTAGCTCTGGTACAAAAAGGCAACG GGTTATGAAAATCACAGTACAATTTTAAAATTCTTTAAGTTAGTTAAGGATATTTAAAC AATGTTCACTTATATTGACTGACAGTAGAAATCATGGGTCAAGTTGACATTAGGACTAGTA GTTACACCTACAATGAGAGCAGAAATGGAAAGTTCAAGCTGACCTGAGCTACACTGTTCA GGACACACCATCTCCATAAATACTGTAGCTGAGTAGCTGCAATGACTAGTCACAGTTGGG CGATTAAGTCACGTGTAATATAGCCAAAGCAAAAATATATATAAATGCACTAACTTG GATATAAAATAAAGTGGGCATTTATTAAGAGGGTACACTATCAAATTAATTACACAATAC ACAATTTAAGTTTCAAAATTTTATCTTGGAAAGAAGAATATAAAATGCACACCTATATG GACAGTAAAGTAGAAATTTTCTGTCTTGGTGGTTTATTTTGTGATTGTTATTTACTGG ATAAGTAGAAATAATTTACGACCCACAAAGGCTTCTCAGTAAAACACTAATTACAGACA TTGTAAGAACATAGCTTANGAGGGCTTGNTTTTAAAACGAGGCAGCATTTCCTGAANA AGNTTGGTCTCGACTCACTTAGGCTAGTACTATGGTCAGATGGGTAGCATTNTTGAGNN TGNGNGNGNGNGNGNGNGNGGGGGGGGNNNNNNNG</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_002063
<b>Insert Size:</b>	3620 bp
<b>OTI Disclaimer:</b>	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).
<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>NM_002063.2, NP_002054.1</u>
<b>RefSeq Size:</b>	3214 bp
<b>RefSeq ORF:</b>	1359 bp
<b>Locus ID:</b>	2742
<b>UniProt ID:</b>	<u>P23416</u>
<b>Cytogenetics:</b>	Xp22.2
<b>Domains:</b>	Neur_chan_memb, Neur_chan_LBD
<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 glycine receptor consists of two subunits, alpha and beta, and acts as a pentamer. The protein encoded by this gene is an alpha subunit and can bind strychnine. Several transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Jan 2010]</p> <p>Transcript Variant: This variant (1) encodes isoform A.</p>