

Product datasheet for **SC328583**

alpha 2 Glycine Receptor (GLRA2) (NM_001171942) Human Untagged Clone

Product data:

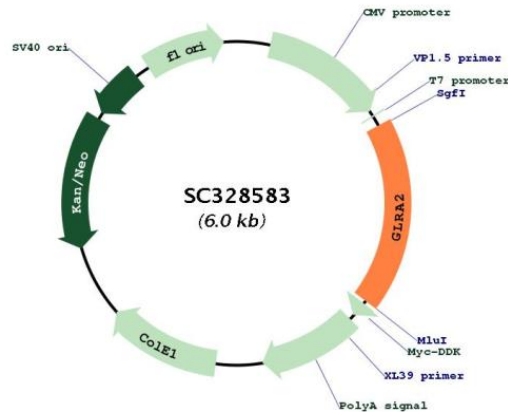
Product Type:	Expression Plasmids
Product Name:	alpha 2 Glycine Receptor (GLRA2) (NM_001171942) Human Untagged Clone
Tag:	Tag Free
Symbol:	GLRA2
Synonyms:	GLR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC328583 representing NM_001171942. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGGACTACCGAGTGAATATTTTCTGAGACAACAGTGAATGATTCACGGCTGGCGTACAGTGAGTAC
CCAGATGACTCCCTGGACTTGGACCCATCCATGCTAGACTCCATTTGAAACCAGATTTGTTCTTTGCC
AATGAGAAGGGTGCCAACTTCCACGATGCACCACTGACAACAAATTGCTACGGATTTGAAAAATGGC
AAAGTGTCTACAGTACAGACTCACCTTGACCTTATCCTGTCCCATGGACTTGAAGAACTTTCCGATG
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AGGCAACACAAGGAGTTCCTGCGCCTCCGAAGAAGACAGAAGAGGCAGAATAAGGAAGAAGACGTTACT
CGTGAAAGTCGTTTTAATTTTAGCGTTATGGGATGGGTCACTGCCTCCAAGTGAAGATGGAACAGCT
GTCAAGGCCACACTGCCAACCACTCCCAACCCGCAAAAGATGGAGATGCTATCAAGAAGAAGTTT
GTTGACCGGGCAAAAAGGATTGACACGATATCTCGAGCTGCCTTCCATTGGCCTTCTCTATTTCAAC
ATCTTTTACTGGATCACATAAAGATCATTGCGCATGAAGATGTCCACAAGAAATAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:


ACCN: NM_001171942

Insert Size: 1092 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: 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_001171942.1](#)

RefSeq Size: 3197 bp

RefSeq ORF: 1092 bp

Locus ID: 2742

UniProt ID:	<u>P23416</u>
Cytogenetics:	Xp22.2
Protein Families:	Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
MW:	42 kDa
Gene Summary:	<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 (4) differs in the 5' UTR and coding sequence compared to variant 1. The resulting isoform (C) is shorter at the N-terminus compared to isoform A.</p> <p>Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>