

Product datasheet for **RC225746**

alpha 2 Glycine Receptor (GLRA2) (NM_001118885) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	alpha 2 Glycine Receptor (GLRA2) (NM_001118885) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	alpha 2 Glycine Receptor
Synonyms:	GLR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC225746 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAACCGGCAGCTAGTGAACATTTTGACAGCCTTGTTCATTTTTCTTAGAGACAAACCCTTCAGGA
 CGGCTTTCTGCAAAGACCATGACTCCAGGCTGGAAAACAACCTTACAGACCCTATCTCCTTCAGATTT
 CTTGGACAAGTTAATGGGAAGGACATCAGGATATGATGCAAGAATCAGGCCAAATTTAAAGGTCCTCCA
 GTAACCGTTACTTGCAATATTTTATCAACAGTTTGGATCAGTCACAGAAACGACCATGGACTACCGAG
 TGAATATTTTTCTGAGACAACAGTGAATGATTCACGGCTGGCGTACAGTGAGTACCCAGATGACTCCCT
 GGACTTGGACCCATCCATGCTAGACTCCATTTGAAAACAGATTTGTTCTTTGCCAATGAGAAGGGTGCC
 AACTTCCACGATGTCACCACTGACAACAATTGCTACGGATTTGAAAAATGGCAAAGTCTCTACAGTA
 TCAGACTCACCTTGACCTTATCCTGTCCATGGACTTGAAGAATTTCCGATGGATGTCCAGACCTGTAC
 AATGCAGCTGGAGAGTTTTGGGTACACGATGAATGACCTGATATTTGAGTGGTTAAGTGATGGTCCAGTG
 CAAGTTGCTGAAGGATTGACCCTGCCCCAGTTTATTTGAAAGAAGAGAAGGAAGTGGCTACTGTACAA
 AGCACTACAACACTGAAAGTTTACCTGCATTGAGGTCAAGTTTCATCTGGAACGCCAAATGGGATATTA
 TTTGATCCAGATGACATCCCAAGCCTGCTTATAGTAATTTTGCCTGGGTTTCCTTTGGATAAATATG
 GATGCAGCCCCTGCCAGGTCGCACTGGGCATCACACAGTCTAACGATGACCACCCAGAGTTCAGGCT
 CCAGGGCATCTCTGCCAAAGGTCCTATGTAAAAGCGATTGACATCTGGATGGCGGTGTGCCTTCTGTT
 TGTGTTTGTGCTTACTGGAATACGCAGCGGTGAACCTCGTCTCCAGGCAACACAAGGAGTTCCTGCGC
 CTCCGAAGAAGACAGAAGAGGCAGAATAAGGAAGAAGACGTTACTCGTAAAAGTCGTTTTAATTTAGCG
 GTTATGGGATGGTCACTGCCTCCAAGTGAAGATGGAACAGCTGTCAAGGCCACACCTGCCAACCCACT
 CCCACAACCGCCAAAAGATGGAGATGCTATCAAGAAGAAGTTTGTGGACCGGGCAAAAAGGATTGACACG
 ATATCTCGAGCTGCCTTCCATTGGCCTTCTCATTTTCAACATCTTTACTGGATCACATACAAGATCA
 TTCGGCATGAAGATGTCCACAAGAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC225746 protein sequence
 Red=Cloning site Green=Tags(s)

MNRQLVNILTALFAFFLETNHFRTAFCKDHSRSGKQPSQTLSPSDFLDKLMGRTSGYDARIRPNFKGPP
 VNVTCNIFINSGSVTETMDYRVNIFLRQWNSRLAYSEYPDDSLDLPSMLDSIWKPDFFANEKGA
 NFHDVTTDNKLLRISKNGKVLYSIRLTLTLSCPMDLKNFPMQVQCTMQLESFGYTMNDLIFEWLSGDPV
 QVAEGLTLPQFILKEEKELGYCTKHYNTGKFTCIEVKFHLEQMGYYLIQMYIPSLILVILSWVSFWINM
 DAAPARVALGITTVLMTTQSSGSRASLPKVSIVYKAIIDIWMAVCLLFVFAALLEYAAVNFVSRQHKFLR
 LRRRQKRQNKEDVTRESRFNFSGYGMGHCLQVKDGTAVKATPANPLPQPPKDGDAIKKKFVDRKRIDT
 ISRAAFPLAFLIFNIFYWITYKIIIRHEDVHKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6134_c09.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001118885

ORF Size: 1356 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001118885.1](#), [NP_001112357.1](#)

RefSeq Size: 3030 bp

RefSeq ORF: 1359 bp

Locus ID: 2742

UniProt ID: [P23416](#)

Cytogenetics: Xp22.2

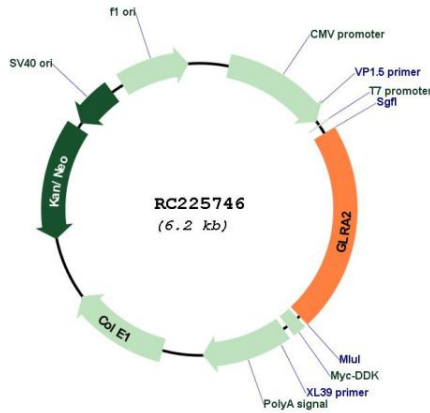
Protein Families: Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

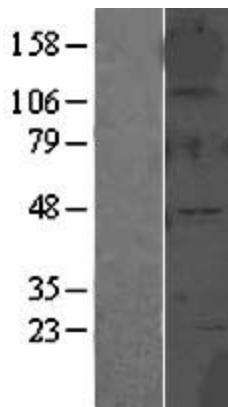
MW: 52 kDa

Gene Summary: 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]

Product images:



Circular map for RC225746



Western blot validation of overexpression lysate (Cat# [LY426528]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC225747] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).