

Product datasheet for **RG225746**

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:	TurboGFP
Symbol:	GLRA2
Synonyms:	GLR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG225746 representing NM_001118885
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAACCGGCAGCTAGTGAACATTTTGACAGCCTTGTTCATTTTTCTTAGAGACAAACCCTTCAGGA
 CGGCTTTCTGCAAAGACCATGACTCCAGGTCTGGAAAACAACCTTACAGACCCTATCTCCTCAGATTT
 CTTGGACAAGTTAATGGGAAGGACATCAGGATATGATGCAAGAATCAGGCCAAATTTAAAGGTCCTCCA
 GTAACCGTTACTTGCAATATTTTATCAACAGTTTGGATCAGTCACAGAAACGACCATGGACTACCGAG
 TGAATATTTTTCTGAGACAACAGTGAATGATTCACGGCTGGCGTACAGTGAGTACCCAGATGACTCCCT
 GGACTTGGACCCATCCATGCTAGACTCCATTTGAAAACAGATTTGTTCTTTGCCAATGAGAAGGGTGCC
 AACTTCCACGATGCACCACTGACAACAATTGCTACGGATTTGAAAAATGGCAAAGTCTCTACAGTA
 TCAGACTCACCTTGACCTTATCCTGTCCATGGACTTGAAGAATTTCCGATGGATGCCAGACCTGTAC
 AATGCAGCTGGAGAGTTTGGGTACACGATGAATGACCTGATATTTGAGTGGTTAAGTGATGGTCCAGTG
 CAAGTTGCTGAAGGATTGACCTGCCCCAGTTTATTTTGAAGAAGAGAAGGAAGTGGCTACTGTACAA
 AGCACTACAACACTGGAAGTTTACCTGCATTGAGGTCAAGTTTCATCTGGAACGCCAAATGGGATATTA
 TTTGATCCAGATGACATCCCAAGCCTGCTTATAGTAATTTTGCCTGGGTTTCCTTTGGATAAATATG
 GATGCAGCCCCTGCCAGGTCGCACTGGGCATCACCACAGTCTTAACGATGACCACCCAGAGTTCAGGCT
 CCAGGGCATCTCTGCCAAAGGTCCTATGTAAAAGCGATTGACATCTGGATGGCGGTGTGCCTTCTGTT
 TGTGTTTGTGCTTACTGGAATACGCAGCGGTGAACCTCGTCTCCAGGCAACACAAGGAGTTCCTGCGC
 CTCCGAAGAAGACAGAAGAGGCAGAATAAGGAAGAAGACGTTACTCGTAAAGTCGTTTTAATTTAGCG
 GTTATGGGATGGGTCACTGCCTCAAGTGAAGATGGAACAGTGTCAAGGCCACACCTGCCAACCCT
 CCCACAACCGCCAAAAGATGGAGATGCTATCAAGAAGAAGTTTGTGGACCGGGCAAAAAGGATTGACAG
 ATATCTCGAGCTGCCTTCCATTGGCCTTCTCATTTTCAACATCTTTTACTGGATCACATACAAGATCA
 TTCGGCATGAAGATGTCCACAAGAAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG225746 representing NM_001118885
 Red=Cloning site Green=Tags(s)

MNRQLVNILTALFAFFLETNHFRTAFCKDHSRSGKQPSQTLSPSDFLDKLMGRTSYDARIRPNFKGPP
 VNVTCNIFINSFGSVTETTM DYRVNIFLRQQWNSRLAYSEYPDDSLDLDPMSLDIWKPDLEFANEKGA
 NFHDVTTDNKLLRISKNGKVLYSIRLTLTLSCPMDLKNFPMQVCTMQLESFGYTMNDLIFEWLSGDPV
 QVAEGLTLPQFILKEEKELGYCTKHYNTGKFTCIEVKFHLERQMGYYLIQMYIPSLILVILSWVSFWINM
 DAAPARVALGITTVLMTTQSSGSRASLPKVSIVKAIIDIMAVCLLFVFAALLEYAAVNFVSRQHKFLR
 LRRRQRQNKEDVTRESRFNFSYGMGHCLQVKDGTAVKATPANPLPQPPKDGDAIKKKFVDRAKRIDT
 ISRAAFPLAFLIFNIFYWITYKIIRHEDVHKK

TRTRPLE – GFP Tag – V

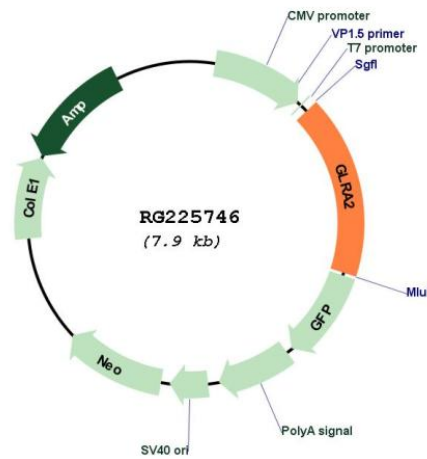
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



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:	<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_001118885.1</u> , <u>NP_001112357.1</u>
RefSeq Size:	3030 bp
RefSeq ORF:	1359 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
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]