OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG229945

alpha 2 Glycine Receptor (GLRA2) (NM_001171942) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	alpha 2 Glycine Receptor (GLRA2) (NM_001171942) 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)

ORF Nucleotide Sequence:

>RG229945 representing NM_001171942
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACTACCGAGTGAATATTTTTCTGAGACAACAGTGGAATGATTCACGGCTGGCGTACAGTGAGTACC
CAGATGACTCCCTGGACTTGGACCCATCCATGCTAGACTCCATTTGGAAACCAGATTTGTTCTTTGCCAA
TGAGAAGGGTGCCAACTTCCACGATGTCACCACTGACAACAAATTGCTACGGATTTCGAAAAATGGCAAA
GTGCTCTACAGTATCAGACTCACCTTGACCTTATCCTGTCCCATGGACTTGAAGAACTTTCCGATGGATG
TCCAGACCTGTACAATGCAGCTGGAGAGTTTTGGGTACACGATGAATGACCTGATATTTGAGTGGTTAAG
TGATGGTCCAGTGCAAGTTGCTGAAGGATTGACCCTGCCCCAGTTTATTTTGAAAGAAGAGAAGGAACTT
GGCTACTGTACAAAGCACTACAACACTGGAAAGTTTACCTGCATTGAGGTCAAGTTTCATCTGGAACGCC
AAATGGGATATTATTTGATCCAGATGTACATCCCAAGCCTGCTTATAGTAATTTTGTCCTGGGTTTCCTT
TTGGATAAATATGGATGCAGCCCCTGCCAGGGTCGCACTGGGCATCACCACAGTCTTAACGATGACCACC
CAGAGTTCAGGCTCCAGGGCATCTCTGCCAAAGGTCTCCTATGTAAAAGCGATTGACATCTGGATGGCGG
TGTGCCTTCTGTTTGTGTTTGCTGCCTTACTGGAATACGCAGCGGTGAACTTCGTCTCCAGGCAACACAA
GGAGTTCCTGCGCCTCCGAAGAAGACAGAAGAGGCAGAATAAGGAAGAAGACGTTACTCGTGAAAGTCGT
TTTAATTTTAGCGGTTATGGGATGGGTCACTGCCTCCAAGTGAAAGATGGAACAGCTGTCAAGGCCACAC
CTGCCAACCCACTCCCACAACCGCCAAAAGATGGAGATGCTATCAAGAAGAAGTTTGTGGACCGGGCAAA
AAGGATTGACACGATATCTCGAGCTGCCTTCCCATTGGCCTTCCTCATTTTCAACATCTTTTACTGGATC
ACATACAAGATCATTCGGCATGAAGATGTCCACAAGAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

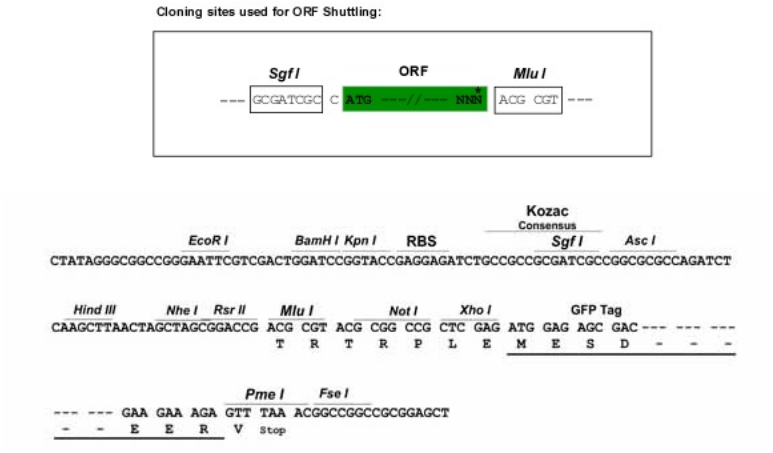
>RG229945 representing NM_001171942
Red=Cloning site Green=Tags(s)

MDYRVNIFLRQQWNDSRLAYSEYPDDSLDLDPSMLDSIWKPDLFFANEKGANFHDVTTDNKLLRISKNGK
VLYSIRLTLTLSCPMDLKNFPMDVQTCTMQLESFGYTMNDLIFEWLSDGPVQVAEGLTLPQFILKEEKEL
GYCTKHYNTGKFTCIEVKFHLERQMGYYLIQMYIPSLLIVILSWVSFWINMDAAPARVALGITTVLTMTT
QSSGSRASLPKVSYVKAIDIWMAVCLLFVFAALLEYAAVNFVSRQHKEFLRLRRRQKRQNKEEDVTRESR
FNFSGYGMGHCLQVKDGTAVKATPANPLPQPPKDGDAIKKKFVDRAKRIDTISRAAFPLAFLIFNIFYWI
TYKIIRHEDVHKK

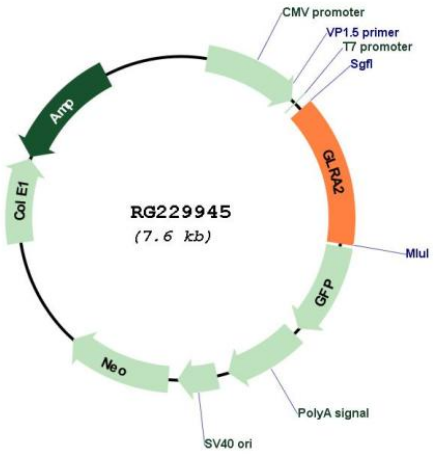
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001171942

ORF Size:	1089 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_001171942.1, NP_001165413.1
RefSeq Size:	3197 bp
RefSeq ORF:	1092 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
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]