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 RR210096

Glra1 (NM_013133) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glra1 (NM_013133) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Glra1
Synonyms:	GLYRA1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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ORF Nucleotide Sequence:

>RR210096 representing NM_013133
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTACAGCTTCAACACTCTGCGATTCTACCTTTGGGAGACCATTGTATTCTTCAGCCTTGCTGCTTCCA
AAGAGGCTGACGCTGCCCGCTCTGCACCCAAGCCTATGTCACCCTCGGACTTCCTGGATAAGCTTATGGG
AAGGACTTCTGGGTATGATGCCAGGATCAGACCCAACTTTAAAGGTCCTCCTGTGAACGTGAGTTGCAAC
ATCTTCATCAACAGCTTTGGTTCTATCGCCGAGACAACCATGGACTACAGGGTCAACATCTTCCTGAGGC
AGCAGTGGAACGACCCCCGTCTCGCCTACAATGAATATCCTGACGACTCTCTGGACCTTGACCCATCCAT
GTTGGATTCCATCTGGAAGCCTGACTTGTTCTTTGCCAATGAGAAGGGGGCCCACTTCCACGAGATCACC
ACGGACAACAAGCTGCTGAGAATCTCCCGGAACGGCAACGTCCTCTACAGCATCAGAATCACCCTGACTC
TGGCCTGCCCCATGGACCTGAAGAATTTCCCGATGGACGTACAGACATGTATCATGCAACTGGAAAGCTT
TGGTTATACCATGAACGACCTCATCTTTGAGTGGCAAGAGCAAGGAGCTGTGCAGGTGGCAGATGGACTG
ACCCTGCCTCAGTTTATCCTGAAGGAAGAGAAGGATCTGAGATACTGCACCAAGCACTACAACACAGGTA
AATTCACCTGCATTGAGGCCCGATTCCACCTGGAACGGCAGATGGGCTACTACCTGATCCAGATGTACAT
CCCCAGCCTGCTTATCGTCATCCTGTCCTGGATCTCCTTCTGGATCAACATGGATGCTGCACCAGCTCGT
GTGGGACTGGGCATCACCACAGTGCTCACCATGACCACACAGAGCTCTGGCTCCCGAGCCTCCCTACCCA
AGGTGTCCTACGTGAAAGCTATTGACATCTGGATGGCTGTTTGCCTGCTCTTCGTGTTCTCGGCCCTGCT
GGAATATGCCGCTGTCAACTTTGTGTCCCGGCAACACAAGGAACTCCTTCGATTTAGGAGGAAGCGGCGA
CATCACAAGGATGATGAGGGTGGAGAAGGCCGCTTCAACTTCTCCGCCTATGGGATGGGGCCAGCCTGCC
TGCAAGCCAAGGATGGCATCTCTGTCAAGGGTGCCAACAACAACAACACCACGAACCCCGCTCCTGCACC
GTCCAAGTCCCCGGAGGAGATGCGGAAACTCTTCATCCAGAGAGCCAAGAAGATCGACAAAATATCTCGC
ATCGGTTTCCCCATGGCCTTCCTCATCTTCAACATGTTCTACTGGATCATCTACAAGATCGTCCGGAGAG
AGGACGTCCACAACAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR210096 representing NM_013133
Red=Cloning site Green=Tags(s)

MYSFNTLRFYLWETIVFFSLAASKEADAARSAPKPMSPSDFLDKLMGRTSGYDARIRPNFKGPPVNVSCN
IFINSFGSIAETTMDYRVNIFLRQQWNDPRLAYNEYPDDSLDLDPSMLDSIWKPDLFFANEKGAHFHEIT
TDNKLLRISRNGNVLYSIRITLTLACPMDLKNFPMDVQTCIMQLESFGYTMNDLIFEWQEQGAVQVADGL
TLPQFILKEEKDLRYCTKHYNTGKFTCIEARFHLERQMGYYLIQMYIPSLLIVILSWISFWINMDAAPAR
VGLGITTVLTMTTQSSGSRASLPKVSYVKAIDIWMAVCLLFVFSALLEYAAVNFVSRQHKELLRFRRKRR
HHKDDEGGEGRFNFSAYGMGPACLQAKDGISVKGANNNNTTNPAPAPSKSPEEMRKLFIQRAKKIDKISR
IGFPMAFLIFNMFYWIIYKIVRREDVHNK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

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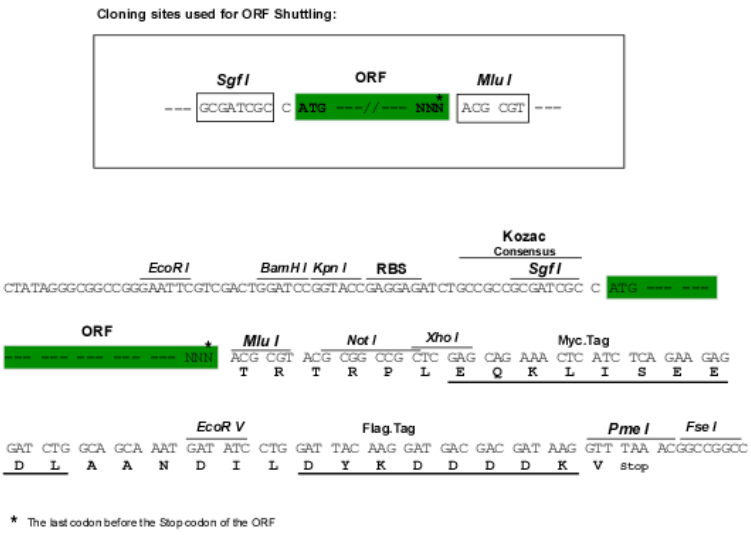
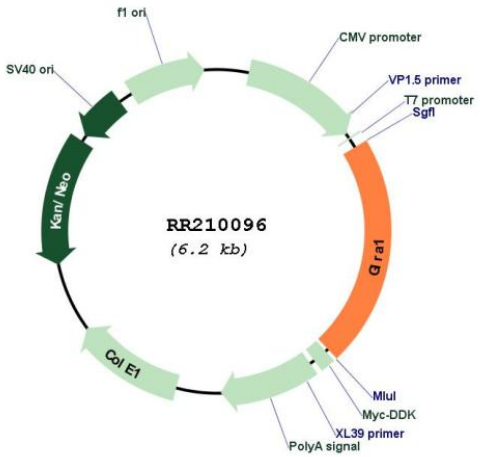
Cloning Scheme:



Plasmid Map:



ACCN: NM_013133

ORF Size: 1347 bp

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OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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_013133.1, NP_037265.1
RefSeq Size:	2125 bp
RefSeq ORF:	1350 bp
Locus ID:	25674
UniProt ID:	P07727
Cytogenetics:	10q22
MW:	51.7 kDa
Gene Summary:	glycine receptor strychnine binding subunit; generates glycine gated strychnine sensitive chloride current in the central nervous system [RGD, Feb 2006]

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