

Product datasheet for **MG207214**

Glr2 (NM_183427) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glr2 (NM_183427) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Glr2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG207214 representing NM_183427 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTACCGGCAGCTAGTGAACATTTTGACAGCCTTGTTTGCATTTTTCTTAGGGACAAACCACTTCAGGG
AAGCTTTCTGCAAAGACCATGACTCCAGGTCTGAAAAACATCCCTCGCAGACCCTATCTCCTTCAGATTT
CTTGGATAAATTAATGGGAAGAACATCAGGATATGATGCAAGAATCAGGCCAAATTTTAAAGGTCCTCCA
GTAAACGTTACTTGAATATTTTTATCAACAGTTTTGGATCAGTCACAGAAACCACCATGGACTACCGGAG
TGAACATTTTTCTGAGACAGCAGTGGAAATGATTCACGGCTGGCATACAGTGAGTACCCAGATGATCCCT
GGATTTGGATCCCTCAATGTTGGATTCGATTTGAAACCGGATTTGTTCTTTGCCAATGAAAAGGGTGCC
AATTTCCATGATGTCACCACTGACAACAAGTTGTTGCGGATTTCCAAAAATGGCAAAGTGCTCTACAGTA
TTAGACTCACCTTGACTTTATCTTGCCAATGGACCTGAAGAAGTTTCCAATGGATGTCAGACCTGTAC
AATGCAGCTGGAGAGTTTTGGGTACACCATGAATGACCTGATATTTGAGTGGTTAAGTGATGGTCCAGTA
CAAGTTGCTGAAGGACTCACCTTGCCCCAGTTTATTTGAAAGAAGAGAAGGAGCTTGGTTATTGCACAA
AGCATTACAACACTGGCAAGTTTACCTGCATTGAGGTCAAGTTTACCTGGAGCGCCAGATGGGCTACTA
TTTGATCCAGATGTACATCCCCAGCCTGTTGATAGTCATTTTGCCTGGGTCCTTTTGGATAAACATG
GATGCAGCCCCTGCCAGGTTGCCCTGGGCATCACAACAGTCCTGACAATGACTACACAGAGTTCAGGTT
CCAGGGCATCTCTGCCAAGGTCTCCTATGTGAAAGCAATTGACATCTGGATGGCCGTATGCCTTCTCTT
TGTGTTTGCTGCCTTACTGGAATATGCAGCAGTGAACCTTGTCTCCAGGCAACATAAGGAGTTTCTTCGT
CTCCGGAGACGACAGAAGAGGCAGAATAAGGAAGAAGATGTTACTCGTGAAGTCTGTTTTAACTTCAGTG
GCTATGGGATGGGTCCTGCCTCCAAATGAAAGATGGCACAGCTGTCAAGGCTACACCTGCCAACCCACT
TCCACAACCCCCAAAGATGCAGATGCTATCAAGAAGAAGTTTGGATCGGGCAAAAAGAATTGACACC
ATATCTCGAGCTGCCTTCCCACTGGCCTTCCCTCATTTTCAACATCTTTTACTGGATCACATACAAGATCA
TTCGGCATGAAGATGTCCACAAGAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG207214 representing NM_183427
Red=Cloning site Green=Tags(s)

MYRQLVNILTALFAFFLGTNHFREAFCKDHDSDRSRGKHPSQTLSPSDFLDKLMGRTSGYDARIRPNFKGPP
 VNVTCNIFINSGSVTETTTMDYRVNIFLRQQWNSRLAYSEYPDDSLDLDPMSLDIWKPDLLFFANEKGA
 NFHDVTTDNKLLRISKNGKVLYSIRLTLTLSCPMDLKNFPMQVQCTMQLESFGYTMNDLIFEWLSGDPV
 QVAEGLTLPQFILKEEKELGYCTKHYNTGKFTCIIEVKFHLEQRMGYYLIQMYIPSLILVILSWVSFWINM
 DAAPARVALGITTIVLTMTTQSSGRASLPKVSYSYKVIDIWMVAVCLLFVFAALLEYAAVNFVSRQHKFLR
 LRRRQKRQNKKEEDVTRESRFNFSGYGMGHCLQMKDGTAVKATPANPLPQPPKDADAIKKKFVDRAKRIDT
 ISRAAFPLAFLIFNIFYWITYKIIRHEDVHKK

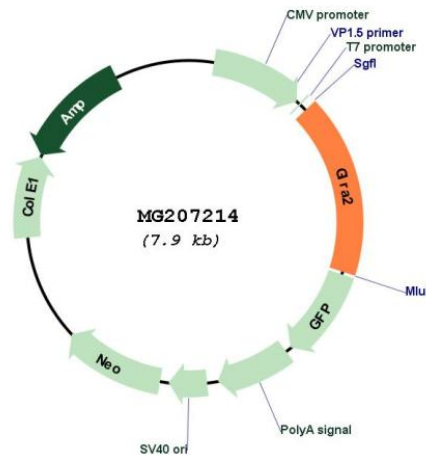
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_183427

ORF Size: 1356 bp

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_183427.5](#)

RefSeq Size: 3147 bp

RefSeq ORF: 1359 bp

Locus ID: 237213

UniProt ID: [Q7TNC8](#)

Cytogenetics: X 76.75 cM

Gene Summary: Glycine receptors are ligand-gated chloride channels. Channel opening is triggered by extracellular glycine. Channel opening is also triggered by taurine and beta-alanine. Plays a role in the down-regulation of neuronal excitability. Contributes to the generation of inhibitory postsynaptic currents. Plays a role in cellular responses to ethanol.
[UniProtKB/Swiss-Prot Function]