

Product datasheet for **MC216112**

Glra4 (NM_010297) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glra4 (NM_010297) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Glra4
Synonyms:	MGC130223; MGC130237
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC216112 representing NM_010297
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACAACCTTTGTTCCAGCAAGCCTCTTCCTTCTCTGGACCTTGCCAGGGAAGTCTGCTCAGTG
 TGGCTTTGGCAAAAGAGGATGTCAAATCTGGACTCAAAGGATCCCAGCCTATGTCCCCTCTGATTCTT
 GGACAAGCTTATGGGACGAACATCTGGATATGATGCTAGGATTAGGCCCAATTTCAAAGTCCACCTGTG
 AATGTGACCTGCAACATCTTCATCAACAGTTTTGGCTCCGTCAGTACGACCACTGGACTACCGGGTAA
 ATGTCTTCTTGGCGCAGCAGTGAATGACCCACGTCTGGCCTACCGAGAATATCCAGATGACTCTCTCGA
 CCTAGACCATCCATGCTCGACTCTATCTGAAACAGACCTCTCTTTGCCAATGAGAAAGGGGCCAAC
 TTCCATGAGGTGACCACAGACAACAAGTTACTGCGCATCTCAAGAATGGAAATGTTCTCTACAGCATCA
 GATTGACCCTCATTTTGTCTGCCAATGGACCTCAAGAACTCCCAATGGACATACAGACCTGTACAAT
 GCAGCTGGAAGCTTTGGCTACACCATGAATGACCTCATGTTTGGTGGTAGAAGATGCTCCTGCTGTC
 CAAGTGGCTGAGGGGTTGACTCTACCCCAATTTATTTGCGGGATGAGAAGGATCTAGGGTATTGTACCA
 AGCACTACAATACAGGAAAATCACTTGCATTGAGGTAAAGTTTACCTGGAGCGGCAGATGGGCTACTA
 TCTGATTCAAATGTACATCCCCAGCCTACTCATCGTCATCCTGTCCTGGGTCTCCTTCTGGATCAACATG
 GATGCGGCCCCTGCTCGTGTAGGCCTTGGCATCACACAGTCTCACCATGACAACTCAGAGCTCTGGAT
 CCAGGGCCTCTTTCCTAAGGTGTCCTACGTAAGGCAATTGACATCTGGATGGCTGTATGCCTGCTCTT
 TGTATTTGCTGCCTTGTGAGTATGCTGCAGTCAATTTGTCTCTCGTCAGCATAAGGAATTTATGAGA
 CTTCTGTAAGGCAGAGACGTGACGCTATGGAAGAAGACATCATAAGAGAGAGCCGCTTCTATTTTCGTG
 CCTATGGCCTAGGACACTGCTTACAAGCAAGGGATGGAGGTCCAATGGAAGTTCCAGCATTATAGTCC
 CCAACCTCCAACCCCTCTTCTAAAGGAAGGAGAAACCATGAGGAACTCTATGTGGACCGAGCCAAAGAGA
 ATTGACACCATCTCCAGGCTGTCTTCCCTTTTACTTTTCTTGTCTTCAATATCTCTATTGGGTTGTCT
 ATAAAGTACTAAGGTCAGAAGATATCCACCAGGCACT**GTGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja2102_b07.zip

Restriction Sites: SgfI-MluI

ACCN: NM_010297

Insert Size: 1371 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](#)

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_010297.2</u> , <u>NP_034427.2</u>
RefSeq Size:	1411 bp
RefSeq ORF:	1371 bp
Locus ID:	14657
UniProt ID:	<u>Q61603</u>
Cytogenetics:	X 59.1 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 (PubMed:10762330). Plays a role in the down-regulation of neuronal excitability. Contributes to the generation of inhibitory postsynaptic currents (Probable).[UniProtKB/Swiss-Prot Function]