

Product datasheet for **MC215940**

Glra1 (NM_020492) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glra1 (NM_020492) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Glra1
Synonyms:	nmf11; oscillator; ot; spasmodic; spd
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC215940 representing NM_020492
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTACAGCTTCAATACTCTGCGATTCTACCTTTGGGAGACCATTGTATTCTTCAGCCTTGCTGCTTCCA
 AAGAGGCTGAAGCGCCCGCTCCGCACCAAGCCTATGTACCCTCGGACTTCCTGGATAAGCTCATGGG
 GAGGACTTCTGGGTATGACGCCAGGATCAGGCCAACTTTAAAGGTCCTCCTGTGAATGTAAGTTGCAAC
 ATCTTCATCAACAGTTTCGGTTCCATCGCTGAGACAACCATGGACTATAGGGTCAACATCTTCTGAGGC
 AGCAGTGGAAACGACCCCGTCTGGCCTACAATGAATACCCTGATGACTCTCTGGACCTTGACCCATCTAT
 GTTGGATTCCATCTGGAAGCCTGACTTGTCTTTGCCAATGAGAAGGGGGCCCACTTCCACGAAATCACC
 ACGGACAACAACTGCTAAGAATCTCCCGAATGGCAATGTCCTCTACAGCATCAGAATCACCTGACGC
 TGGCCTGCCCCATGGACCTGAAGAATTTCCCGATGGATGTACAGACGTGTATCATGCAACTCGAAAGCTT
 TGGATATACCATGAACGACCTCATCTTTGAGTGGCAGGAGCAAGGAGCTGTGCAGGTGGCAGACGGACTG
 ACCTGCCTCAGTTTATTCTGAAGGAAGAGAAAGACCTGAGATACTGCACCAAGCACTACAACACAGGTA
 AATTCACCTGCATCGAGGCCGATTCCACCTGGAGCGGCAGATGGGCTACTACCTGATCCAGATGTACAT
 CCCCAGCTGCTCATCGTCATCCTGTCTGGATCTCCTTCTGGATCAACATGGATGCTGCACCAGCTCGT
 GTGGGGCTGGGCATCACACAGTGTCCACATGACCACACAGAGCTCTGGCTCCCAGCCTCCCTACCCA
 AGGTGTCTACGTGAAAGCTATTGACATTTGGATGGCTGTTTGCCTGCTCTTCTGTTCTCTGCCCTGCT
 GGAGTACGCCCGCTCACTTTGTGTCTCGGCAACACAAGGAAGTCTCGATTTAGGAGGAAGAGGCGCA
 CATCACAAGGATGATGAGGGTGGAGAAGGCCGCTTCACTTCTCTGCCTATGGGATGGGCCACGCTGTC
 TGCAGGCAAGGATGGCATCTCTGTCAAGGGTGCCAACAACAACCACTAACCCTCCTCTGCCGCT
 ATCCAAGTCCCGGAGGAGATGCGGAAACTCTTCCATCCAGAGAGCCAAGAAGATCGACAAGATATCTCGC
 ATCGGTTTCCCCATGGCCTTCTCATCTTCAACATGTTCTACTGGATCATCTATAAGATCGTCCGGAGAG
 AGGATGTCACAACAAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_020492

Insert Size: 1350 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.

RefSeq: [NM_020492.4](#), [NP_065238.2](#)

RefSeq Size: 2389 bp

RefSeq ORF: 1350 bp

Locus ID: 14654

Cytogenetics: 11 33.12 cM

Gene Summary: Glycine receptors are ligand-gated chloride channels. Channel opening is triggered by extracellular glycine (PubMed:16672662, PubMed:17114051, PubMed:24801766). Channel opening is also triggered by taurine and beta-alanine (By similarity). Channel characteristics depend on the subunit composition; heteropentameric channels are activated by lower glycine levels and display faster desensitization (By similarity). Plays an important role in the down-regulation of neuronal excitability (PubMed:9145798). Contributes to the generation of inhibitory postsynaptic currents (PubMed:16672662, PubMed:17114051, PubMed:24801766). Channel activity is potentiated by ethanol. Potentiation of channel activity by intoxicating levels of ethanol contribute to the sedative effects of ethanol (PubMed:24801766).

[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 3' coding region, compared to variant 1. The encoded isoform (2) is shorter, compared to isoform 1.