

Product datasheet for **MC227795**

Glra1 (NM_001290821) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glra1 (NM_001290821) 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: >MC227795 representing NM_001290821
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTACAGCTTCAATACTCTGCGATTCTACCTTTGGGAGACCATTGTATTCTTCAGCCTTGCTGCTTCCA
 AAGAGGCTGAAGCGCCCGCTCCGCACCAAGCCTATGTACCCTCGACTTCCTGGATAAGCTCATGGG
 GAGGACTTCTGGGTATGACGCCAGGATCAGGCCAACTTTAAAGGTCCTCCTGTGAATGTAAGTTGCAAC
 ATCTTCATCAACAGTTTCGGTTCCATCGCTGAGACAACCATGGACTATAGGGTCAACATCTTCTGAGGC
 AGCAGTGGAAACGACCCCGTCTGGCCTACAATGAATACCCTGATGACTCTCTGGACCTTGACCCATCTAT
 GTTGGATTCCATCTGGAAGCCTGACTTGTCTTTGCCAATGAGAAGGGGGCCCACTTCCACGAAATCACC
 ACGGACAACAACTGCTAAGAATCTCCCGAATGGCAATGTCCTCTACAGCATCAGAATCACCTGACGC
 TGGCCTGCCCCATGGACCTGAAGAATTTCCCGATGGATGTACAGACGTGTATCATGCAACTCGAAAGCTT
 TGGATATACCATGAACGACCTCATCTTTGAGTGGCAGGAGCAAGGAGCTGTGCAGGTGGCAGACGGACTG
 ACCTGCCTCAGTTTATTCTGAAGGAAGAGAAAGACCTGAGATACTGCACCAAGCACTACAACACAGGTA
 AATTCACCTGCATCGAGGCCGATTCCACCTGGAGCGGCAGATGGGCTACTACCTGATCCAGATGTACAT
 CCCCAGCTGCTCATCGTCATCCTGTCTGGATCTCCTTCTGGATCAACATGGATGCTGCACCAGCTCGT
 GTGGGGCTGGGCATCACCACAGTGTCCACATGACCACACAGAGCTCTGGCTCCCAGCCTCCCTACCCA
 AGGTGTCTACGTGAAAGCTATTGACATTTGGATGGCTGTTTGCCTGCTCTTCGTGTTCTCTGCCCTGCT
 GGAGTACGCCCGCTCACTTTGTGTCTCGGCAACACAAGGAAGTCTTCGATTTAGGAGGAAGAGGCGA
 CATCACAAGAGCCCCATGCTAAATCTGTTTCAGGATGATGAGGGTGGAGAAGGCCGCTTCACTTCTCTG
 CCTATGGGATGGGCCAGCCTGTCTGCAGGCCAAGGATGGCATCTCTGTCAAGGGTGCCAAACAACA
 CACCCTAACCCGCTCCTGCGCCATCCAAGTCCCGGAGGAGATGCGGAACTCTTCATCCAGAGAGCC
 AAGAAGATCGACAAGATATCTCGCATCGTTTTCCCATGGCCTTCTCATCTTCAACATGTTCTACTGGA
 TCATCTATAAGATCGTCCGGAGAGAGGATGTCCACAACAAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001290821
- Insert Size:** 1374 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001290821.1](#), [NP_001277750.1](#)

RefSeq Size: 2413 bp

RefSeq ORF: 1374 bp

Locus ID: 14654

UniProt ID: [Q64018](#)

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 (1) represents the longer transcript and encodes the longer isoform (1).