

## Product datasheet for MC223172

### Grid2 (NM\_008167) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Grid2 (NM_008167) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Grid2
Synonyms:	B230104L07Rik; cpr; GluD2; GluRdelta2; ho; Lc; Lc; MMS10-AC; Ms10ac; nmf408; tpr
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC223172 representing NM_008167 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGAAGTTTTCCCTTGCTCTGTTTTCTGTCCTTCTGTTGGTCTCGAACCTGGGACCTGGCGACCGCTG  
ATTCTATCATCCACATCGGAGCAATTTTTGATGAATCTGCTAAAAAGATGATGAAGTATCCGCACAGC  
AGTTGGTGACCTCAACCAGAATGAGGAAATCTTACAGACTGAGAAAATCACATTTCTGTGACGTTTGT  
GATGGCAACAACCCTTTCAAGCTGTTCAGAAGCATGTGAACCTATGAACCAGGCATCTTGGCCTTGG  
TCAGCTCCATTGGTTGCACATCAGCTGGTCCCTCCAGTCTTTGGCAGATGCCATGCATATCCCCACCT  
CTTCATTACGCGCTCAACAGCTGGGACCCCAAGAAGTGGCTGTGGCCTCACCCGGAGCAACAGAAATGAT  
GACTATACTCTTTCAGTTCGTCACCTGTCTACTTGAATGAAGTCATCCTAAGAGTAGTCACAGAGTATG  
CATGGCAGAAATTTATTCTTCTATGACAGTGAATATGATATCCGTGGAATCCAGGAATTTTGGACAA  
AGTATCCCAGCAGGGAATGGATGTTGCCCTTCAAAGGTGGAAAACAACATCAACAAAATGATCACCACA  
CTCTTTGACACCATGAGGATAGAGGAGTTGAATCGCTATCGAGACACTCTTAGAAGAGCCATCCTTGTCA  
TGAACTCTGCCACAGCCAAATCCTTATAAGTGGTGGTGGAGACGAATCTGGTTGCTTTGACTGTCA  
CTGGATCATCATTAAATGAGGAAATAAATGATGTGGATGTTGAGGAACTTGTGAGAAGTCCATTGGAAGG  
TTAAACAATAATTCGGCAGACATTTCCAGTCCCCAGAATAAAGTCAGCGCTGTTTCCGTGGCAACCATC  
GAATTTCTTCACTGTGTGATCCGAAGGATCCCTTTGCACAGAATATGGAGATTTCTAACCTTTACAT  
CTATGACACGGTCTTCTGCTTGCAGTGCCTTCCATAAGAAGCTGGAGGACCGTAAGTGGCACAGCATG  
GCAAGCTTGTCTGTATCAGGAAAACTCCAAGCCCTGGCAAGGAGGGCGGTCCATGCTGGAGACCATCA  
AGAAGGGTGGAGTAAATGGATTGACTGGAGATCTAGAATTTGGAGAAAATGGAGGTAACCCCAATGTCCA  
CTTTGAAATCCTTGAACCAACTATGGAGAAGAACTTGGCAGGGGTGTCCTGAACTTGGGTGCTGGAAT  
CCTGTCACAGGTCTGAATGGATCACTGACAGACAAAACTGGAGAACAACATGCGGGGCGTGGTCTAC  
GAGTGGTACTGTATTGGAGGAGCCTTTTGAATGGTCTCTGAAAATGTCTTGGGAAAACCGAAGAATA  
CCAGGGCTTCTCATTGATGTTTTGGATGCCCTATCTAACTACCTGGGTTTTAATTATGAAATTTATGTT  
GCACCGGACCACAAATATGGAAGCCACAAGAGGATGGGACATGGAATGGACTGGTAGGAGAAGTGT



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TTAAGAGAGCTGACATTGGGATTTACGCTTTAACCATCACTCCAGACCGGAGAATGTTGTAGATTTTAC  
AACACGCTACATGGACTACTCAGTGGGAGTCTTCTTTCGAAGGGCAGAAAAACAGTGGATATGTTTGCC  
TGCTTGCACCATTTGATCTATCTGTGGGCCTGATTGCTGGCACAGTGTCTTGTGGGACTTTGG  
TCTACCTCTAAACTGGCTTAATCCCCACGATTGCAAAATGGGATCGATGACATCTACTACTCTACAA  
CTCCATGTGGTTTGTGTATGGGTCCTTTGTACAGCAAGGTGGGGAAGTCCCATACACAACCTGGCAACC  
CGAATGATGATGGGGCTTGGTGGTTATTTGCTCTGATTGTCATCTCATCTTATACAGCCAACCTTGCCG  
CTTTCCTCACTATCACCCGCAATTGAGAGCTCCATCCAGTCTCTTCAGGATCTGTCCAAGCAAACAGATAT  
CCCTTATGGCACAGTCTTGGACTCGGCAGTATATCAGCATGTCCGCATGAAGGGCTGAATCCTTTCGAG  
AGAGACAGCATGTATTCCAGATGTGGAGGATGATCAACCGAAGCAATGGGTGAGAAAAAATGTTTTGG  
AGTCCCAAGCAGGCATTCAAAGGTAATAATGGAACTATGCTTTTGTATGGGATGCAGCTGTGTGGAA  
ATATGTGGCTATTAACGACCCCGACTGTTCTTACTACTGTTGGGAACACTGTTGCTGACCGGGGTAT  
GGCATTGCACTGCAGCATGGCAGCCCTACCGTGTGTCTTTTCACAAAGGATCCTGGAGCTGCAGCAGA  
GTGGCGCATGGACATTCTAAGCACAAATGGTGGCCTAAGAACGGCCAGTGTGACCTGTACTCCTCAGT  
GGATGCAAAGCAGAAGGGAGGAGCCTTGGACATCAAGAGCCTGGCAGGCGTGTCTGCATCTGGCCGG  
GGAATTGTGCTCTCCTGCCTCATAGCTGTCTCGAGACGTGGTGGAGCCGGAGGAAGGGCTCCCGGGTCC  
CATCGAAAGAGGATGACAAGGAAATTGACTGGAGCACCTCCATAGACGTGTAATAGCTTGTGCACAGA  
TGACGACAGCCCCATAACAGTTTTCCACCTCGTCAATTGACTTGACCCCTCTGGACATTGACACTTTG  
CCAACACGCCAAGCCCTGGAGCAGATCAGTGATTTAGAAAACACTCACATCACCACCACCACCTTCATCC  
CAGAGCAGATCCAGACTCTAGCCGCACACTCTCAGCAAAGCTGCCTCTGGCTTCGCTTTCGGCAGTGT  
GCCTGAGCACCGAACTGGCCCTTTAGCCACAGGGCTCCTAATGGGGGCTTTTTCAGGAGTCTATCAAA  
ACAATGTCATCTATTCTTATCAGCCTACTCCACTCTGGGGCTCAATCTGGGCAATGACCCCGACCGAG  
GCAGTCCATATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_008167

**Insert Size:** 3024 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).

**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\\_008167.2](#), [NP\\_032193.1](#)

**RefSeq Size:** 3024 bp

**RefSeq ORF:** 3024 bp

Locus ID:	14804
UniProt ID:	<a href="#">Q61625</a>
Cytogenetics:	6 29.77 cM
Gene Summary:	Receptor for glutamate. L-glutamate acts as an excitatory neurotransmitter at many synapses in the central nervous system. The postsynaptic actions of Glu are mediated by a variety of receptors that are named according to their selective agonists. Promotes synaptogenesis and mediates the D-Serine-dependent long term depression signals and AMPA receptor endocytosis of cerebellar parallel fiber-Purkinje cell (PF-PC) synapses through the beta-NRX1-CBLN1-GRID2 triad complex.[UniProtKB/Swiss-Prot Function]