

Product datasheet for **MC220724**

Grin1 (NM_001177657) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grin1 (NM_001177657) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Grin1
Synonyms:	GluN1; GluRdelta1; GluRzeta1; M100174; NMD-R1; Nmdar; NMDAR1; NR1; Rgsc174
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC220724 representing NM_001177657
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGCACCATGCACCTGCTGACATTGCGCCTGCTTTTCTCCTGCTCCTTCGCCCGCTGCCTGCGACC
 CCAAGATTGTCAACATCGGCGCGGTGCTGAGCAGCGCAAGCACGAGCAGATGTTCCGCGAGGCAGTAAA
 CCAGGCCAATAAGCGACACGGCTCTTGGAGATACAGCTCAACGCCACTTCTGTACCCACAAGCCCAAC
 GCCATACAGATGGCCCTGTCAAGTGTGAGGACCTCATCTCTAGCCAGGTCTACGCTATCCTAGTTAGTC
 ACCCGCTACTCCCAACGACCATTCACTCCCACCCTGTCTCCTACACAGCTGGCTTCTACAGAATCCC
 CGTCTGGGGTACTACCCGAATGTCCATCTACTCTGACAAGAGCATCCACCTGAGCTTCTTCGCACC
 GTACCACCCTACTCCCACAGTCCAGCGTCTGGTTTGAGATGATGCGCGTCTACAACCTGGAACCATATCA
 TCCTGCTGGTCAAGGATGACCACGAGGGCCGGCAGCGCAGAAGCGCCTGGAGACGTTGCTGGAGGAGCG
 TGAGTCCAAGGCAGAGAAGGTGCTGCAGTTTGACCCAGGAACCAAGAATGTGACGGCTCTGCTGATGGAA
 GCCCGGGACCTGGAAGCCCGGGTCAATCCTTTCTGCAAGCGAGGACGAGCTGCCACCCTATACCGCG
 CAGCCCGGATGCTGAACATGACTGGCTCTGGGTACGTGTGGCTCGTCGGGGAGCGCGAGATCTCTGGGAA
 TGCCCTGCGCTACGCTCCTGACGGCATCATCGACTTCAGCTAATCAACGGCAAGAACGAGTCGGCCAC
 ATCAGTGACGCTGTGGCGTGGTGGCACAGGCAGTCCACGAGCTCCTAGAAAAGGAGAACATCACTGATC
 CACCGCGGGTGGTGGGCAACACCAACATCTGGAAGACAGGACCCTGTTCAAGAGGGTGTGATGTC
 TTCCAAGTATGCAGATGGAGTACTGGCCGTGTGGAATCAATGAGGATGGGACCGGAAGTTTGCCAAC
 TATAGTATCATGAACCTGCAGAACCAGCTGGTCAAGTGGGCATCTACAATGGTACCCATGTCATCC
 CAAATGACAGGAAGATCATCTGGCCAGGAGGAGACAGAGAAGCCTCGAGGATACCAGATGTCACCAG
 ACTAAAGATAGTACAATCCACCAAGAACCCTTGTGTATGTCAAGCCCAATGAGTGTGACCATGC
 AAAGAGGAGTTCACAGTCAATGGTGACCCTGTCAAGAAGGTGATCTGTACGGGGCCTAATGACACATCCC
 CAGGAAGCCACGTCACACAGTCCCCAGTGTGTATGGCTTCTGCGTTGACCTGCTCATCAAGCTGGC
 ACGGACCATGAATTTTACCTACGAGGTGCACCTTGTGGCAGATGGCAAGTTTGGCACACAGGAGCGGGTA
 AACACAGCAACAAAAGGAGTGGAAACGGAATGATGGGAGAGTGTGCTCAGTGGTCAAGCAGACATGATCG
 TGGCTCCACTGACCATTAACAATGAGCGTGCAGTACATAGAGTTCTCCAAGCCCTTCAAGTACCAGGG
 CCTGACCATTCTGGTCAAGAAGGAGATCCCTCGGAGCACACTGGACTCATTATGCAGCCCTTTCAGAGC
 AACTGTGGCTGTGGTGGGGCTGTGAGTTCATGTGGTGGCCGTGATGCTGTACCTGCTGGACCGCTTCA
 GTCCTTTTGGCCGATTTAAGGTGAACAGCGAGGAGGAGGAGGATGCACTGACCTGTCTCTGCCAT
 GTGGTTTTCTGGGGCTCCTGCTCAACTCTGGCATTGGGGAAGGTGCCCCCGGAGTTTCTCTGCTCGT
 ATCCTAGGCATGGTGTGGGCTGGTTTTGCCATGATCATCGTGGCTTCTACACTGCCAACCTGGCAGCCT
 TCCTGGTGTGGATAGGCCTGAGGAGCGCATCACAGGCATCAATGACCCAGGCTCAGAAACCCCTCAGA
 CAAGTTCATCTATGCAACTGTAAAACAGAGCTCTGTGGATATCTACTCCGGAGGCAGGTGGAGTTGAGC
 ACCATGTACCGGCACATGGAGAAGCACAATTATGAGAGTGCAGCTGAGGCCATCCAGGCTGTGCGGGACA
 ACAAGCTCCATGCCTTCTCTGGACTCAGCTGTGCTGGAGTTTGAGGCTTACAGAAGTGGCAGTCTGGT
 GACCACGGGTGAGCTGTTCTTCCGCTCCGGCTTGGCATCGGCATGCGCAAGGACAGCCCTGGAAGCAA
 AATGTGTCCCTGTCCATACTCAAGTCCCATGAGAATGGCTTCAAGGAAGCCTGGATAAGACATGGGTTT
 GGTATCAAGAATGTGACTCCCGCAGCAATGCCCTGCCACCCTCACTTTTGAACAATGGCAGGGTCTT
 CATGCTGGTGGTGGAGGCATCGTAGTGGGATCTTCTCATTTTTCATCGAGATCGCTACAAGCGACAC
 AAGGATGCCCGTAGGAAGCAGATGCAGCTGGCTTTTGCAGCCGTGAACGTGTGGAGGAAGAACCCTGCAGC
 AGTACCATCCACTGATATCACGGGCCCTCAACCTCTCAGATCCCTCGGTGAGCACCCTGGT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI
ACCN: NM_001177657

Insert Size:	2658 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:	<ol style="list-style-type: none">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:	<u>NM_001177657.2</u> , <u>NP_001171128.1</u>
RefSeq Size:	3859 bp
RefSeq ORF:	2658 bp
Locus ID:	14810
UniProt ID:	<u>P35438</u>
Cytogenetics:	2 17.14 cM
Gene Summary:	<p>Component of NMDA receptor complexes that function as heterotetrameric, ligand-gated ion channels with high calcium permeability and voltage-dependent sensitivity to magnesium. Channel activation requires binding of the neurotransmitter glutamate to the epsilon subunit, glycine binding to the zeta subunit, plus membrane depolarization to eliminate channel inhibition by Mg(2+) (PubMed:1532151, PubMed:8060614, PubMed:12008020). Sensitivity to glutamate and channel kinetics depend on the subunit composition (PubMed:12008020). [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) lacks an exon and contains an alternate 3' terminal exon, resulting in an alternate 3' coding region, compared to variant 1. The encoded isoform (3) has distinct C-terminus and is shorter than isoform 1.</p>