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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
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCACCATGCACCTGCTGACATTCGCCCTGCTTTTCTCCTGCTCCTTCGCCCGCGCTGCCTGCGACC
CCAAGATTGTCAACATCGGCGCGGTGCTGAGCACGCGCAAGCACGAGCAGATGTTCCGCGAGGCAGTAAA
CCAGGCCAATAAGCGACACGGCTCTTGGAAGATACAGCTCAACGCCACTTCTGTCACCCACAAGCCCAAC
GCCATACAGATGGCCCTGTCAGTGTGTGAGGACCTCATCTCTAGCCAGGTCTACGCTATCCTAGTTAGTC
ACCCGCCTACTCCCAACGACCACTTCACTCCCACCCCTGTCTCCTACACAGCTGGCTTCTACAGAATCCC
CGTCCTGGGGCTGACTACCCGAATGTCCATCTACTCTGACAAGAGCATCCACCTGAGCTTCCTTCGCACC
GTACCACCCTACTCCCACCAGTCCAGCGTCTGGTTTGAGATGATGCGCGTCTACAACTGGAACCATATCA
TCCTGCTGGTCAGCGATGACCACGAGGGCCGGGCAGCGCAGAAGCGCCTGGAGACGTTGCTGGAGGAGCG
TGAGTCCAAGGCAGAGAAGGTGCTGCAGTTTGACCCAGGAACCAAGAATGTGACGGCTCTGCTGATGGAA
GCCCGGGACCTGGAAGCCCGGGTCATCATCCTTTCTGCAAGCGAGGACGACGCTGCCACCGTATACCGCG
CAGCCGCGATGCTGAACATGACTGGCTCTGGGTACGTGTGGCTCGTCGGGGAGCGCGAGATCTCTGGGAA
TGCCCTGCGCTACGCTCCTGACGGCATCATCGGACTTCAGCTAATCAACGGCAAGAACGAGTCGGCCCAC
ATCAGTGACGCTGTGGGCGTGGTGGCACAGGCAGTCCACGAGCTCCTAGAAAAGGAGAACATCACTGATC
CACCGCGGGGTTGCGTGGGCAACACCAACATCTGGAAGACAGGACCACTGTTCAAGAGGGTGCTGATGTC
TTCCAAGTATGCAGATGGAGTGACTGGCCGTGTGGAATTCAATGAGGATGGGGACCGGAAGTTTGCCAAC
TATAGTATCATGAACCTGCAGAACCGCAAGCTGGTGCAAGTGGGCATCTACAATGGTACCCATGTCATCC
CAAATGACAGGAAGATCATCTGGCCAGGAGGAGAGACAGAGAAGCCTCGAGGATACCAGATGTCCACCAG
ACTAAAGATAGTGACAATCCACCAAGAACCCTTCGTGTATGTCAAGCCCACAATGAGTGATGGCACATGC
AAAGAGGAGTTCACAGTCAATGGTGACCCTGTCAAGAAGGTGATCTGTACGGGGCCTAATGACACATCCC
CAGGAAGCCCACGTCACACAGTGCCCCAGTGCTGTTATGGCTTCTGCGTTGACCTGCTCATCAAGCTGGC
ACGGACCATGAATTTTACCTACGAGGTGCACCTTGTGGCAGATGGCAAGTTTGGCACACAGGAGCGGGTA
AACAACAGCAACAAAAAGGAGTGGAACGGAATGATGGGAGAGCTGCTCAGTGGTCAAGCAGACATGATCG
TGGCTCCACTGACCATTAACAATGAGCGTGCGCAGTACATAGAGTTCTCCAAGCCCTTCAAGTACCAGGG
CCTGACCATTCTGGTCAAGAAGGAGATCCCTCGGAGCACACTGGACTCATTCATGCAGCCCTTTCAGAGC
ACACTGTGGCTGCTGGTGGGGCTGTCAGTTCATGTGGTGGCCGTGATGCTGTACCTGCTGGACCGCTTCA
GTCCCTTTGGCCGATTTAAGGTGAACAGCGAGGAGGAGGAGGAGGATGCACTGACCCTGTCCTCTGCCAT
GTGGTTTTCCTGGGGCGTCCTGCTCAACTCTGGCATTGGGGAAGGTGCCCCCCGGAGTTTCTCTGCTCGT
ATCCTAGGCATGGTGTGGGCTGGTTTTGCCATGATCATCGTGGCTTCCTACACTGCCAACCTGGCAGCCT
TCCTGGTGCTGGATAGGCCTGAGGAGCGCATCACAGGCATCAATGACCCCAGGCTCAGAAACCCCTCAGA
CAAGTTCATCTATGCAACTGTAAAACAGAGCTCTGTGGATATCTACTTCCGGAGGCAGGTGGAGTTGAGC
ACCATGTACCGGCACATGGAGAAGCACAATTATGAGAGTGCAGCTGAGGCCATCCAGGCTGTGCGGGACA
ACAAGCTCCATGCCTTCATCTGGGACTCAGCTGTGCTGGAGTTTGAGGCTTCACAGAAGTGCGATCTGGT
GACCACGGGTGAGCTGTTCTTCCGCTCCGGCTTTGGCATCGGCATGCGCAAGGACAGCCCCTGGAAGCAA
AATGTGTCCCTGTCCATACTCAAGTCCCATGAGAATGGCTTCATGGAAGACCTGGATAAGACATGGGTTC
GGTATCAAGAATGTGACTCCCGCAGCAATGCCCCTGCCACCCTCACTTTTGAGAACATGGCAGGGGTCTT
CATGCTGGTGGCTGGAGGCATCGTAGCTGGGATCTTCCTCATTTTCATCGAGATCGCCTACAAGCGACAC
AAGGATGCCCGTAGGAAGCAGATGCAGCTGGCTTTTGCAGCCGTGAACGTGTGGAGGAAGAACCTGCAGC
AGTACCATCCCACTGATATCACGGGCCCGCTCAACCTCTCAGATCCCTCGGTCAGCACCGTGGTGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001177657

Insert Size: 2658 bp

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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_001177657.2, NP_001171128.1
RefSeq Size:	3859 bp
RefSeq ORF:	2658 bp
Locus ID:	14810
UniProt ID:	P35438
Cytogenetics:	2 17.14 cM
Gene Summary:	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] 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.

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