

Product datasheet for **RN217311**

Grin1 (NM_001270608) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grin1 (NM_001270608) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Grin1
Synonyms:	GluN1; NMDAR1; NR1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN217311 representing NM_001270608
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCACCATGCACCTGCTGACATTGCCTGCTTTTTCTGCTCCTTCGCCCGCCGCTGCGACC
 CCAAGATCGTCAACATCGGCGCGGTGCTGAGCAGCGCAAGCATGAACAGATGTTCCGCGAGGCAGTAAA
 CCAGGCCAATAAGCGACACGGCTCTTGGGAAGATACAGCTCAACGCCACTTCTGTACCCACAAGCCCAAC
 GCCATACAGATGGCCCTGTCAAGTGTGAGGACCTCATCTCTAGCCAGGTCTACGCTATCCTAGTTAGCC
 ACCCGCTACTCCCAACGACCCTTCACTCCCACCCTGTCTCCTACACAGCTGGCTTCTACAGAATCCC
 TGTCTGGGACTGACTACCCGAATGTCCATCTACTCTGACAAGAGTATCCACCTGAGTTTCTTCGCACG
 GTGCCGCCCTACTCCACCAGTCCAGCGTCTGGTTTGGATGATGCGAGTCTACAACCTGGAACCACATCA
 TCCTGCTGGTCAAGGACACCACGAGGGACGGCAGCGCAGAAGCGCTTGGAGACGTTGCTGGAGGAACG
 GGAGTCCAAGAGTAAAAAAGGAACTATGAAAACCTCGACCAACTGTCCTATGACAACAAGCGCGGACCC
 AAGGCAGAGAAGGTGCTGCAATTTGACCCAGGAACCAAGAATGTGACGGCTCTGCTGATGGAGGCCCGGG
 AACTGGAGGCCCGGGTCAATCCTTTCTGCAAGCGAGGACGACGCTGCCACAGTGTACCGCGACGCCG
 AATGCTGAACATGACGGGCTCTGGGTACGTGTGGCTGGTCCGGGAACCGGAGATCTCTGGGAACGCCCTG
 CGCTACGCTCCTGATGGCATCATCGGACTTCAAGTCAATGGCAAGAATGAGTCAAGCCACATCAGTG
 ACGCCGTGGGCGTGGTGGCACAGGCAGTTCACGAACTCTAGAGAAGGAGAATATCACTGACCCACCGCG
 GGGTTGCGTGGCAACACCAACATCTGGAAGACAGGACCATTTCAAGAGGGTCTGATGCTTCTAAG
 TATGCGGACGGAGTACTGGCCGTGTGAATCAATGAGGATGGGACCGGAAGTTTCCAACTATAGTA
 TCAATGAACCTGCAGAACCGCAAGCTGGTCAAGTGGGCATCAACAATGGTACCCATGTCATCCCAATGA
 CAGGAAGATCATCTGGCCAGGAGGAGACAGAGAAACCTCGAGGATACCAAGTGTCCACCAGACTAAAG
 ATAGTGACAATCCACCAAGAGCCCTTCGTGTACGTCAAGCCACAAATGAGTGTGGGACATGCAAGAGG
 AGTTCACAGTCAATGGTACCCAGTGAAGAAGGTGATCTGTACGGGGCCTAATGACACGTCCCCAGGCAG
 CCCACGCCACACAGTGGCCAGTGTGCTATGGCTTCTGCATAGACCTGCTCATCAAGCTGGCGCGGACC
 ATGAATTTTACCTATGAGGTGCACCTGGTGGCAGATGGCAAGTTTGGCACACAGGAGCGGGTAAACAACA
 GCAACAAAAGGAGTGAACGGAATGATGGGCGAGCTACTCAGTGGCCAAGCGGACATGATTGTGGCACC
 ACTGACCATCAACAATGAGCGTGGCAGTACATAGAGTTCTCAAGCCCTTCAAGTACCAGGGCCTGACC
 ATTTTGGTCAAGAAGGAGATTCCAGGAGCACACTGGACTCATTATGACGCTTTTCAGAGCACACTGT
 GGTGCTAGTAGGACTGTCAATGATGGTGGCTGTGATGCTGTACCTGCTGGACCGCTTCAAGTCCCTT
 TGGCCGATTCAAGGTGAACAGTGAAGGAGGAGGAGGAAGATGCACTGACCTGTCTCTGCCATGTGGTTT
 TCTGGGGCGTCTGCTCAACTCCGGCATTGGGGAAGGTGCCCCCGGAGTTTCTCTGCACGTATCCTAG
 GCATGGTGTGGGCTGGTTTCGCCATGATCATAGTGGCTTCTTACTGCAACTTGGCAGCTTCTCTGGT
 GCTGGATCGGCCCTGAGGAGCGCATCACGGGCATCAATGACCCAGGCTCAGAAACCCCTCAGACAAGTTC
 ATCTACGCAACTGTAAGCAGAGCTCCGTGGACATCTACTCCGGAGGCAGGTGGAGTTGAGTACCATGT
 ACCGGCACATGGAAAAACAATTACGAGAGCGCAGCTGAGGCCATCCAGGCTGTGCGGGACAACAAGCT
 GCACGCCCTTATCTGGGACTCGGCCGTGGTGGAGTTTGGGCTTACAGAAGTGGCATCTGGTGACCAG
 GGTGAGCTGTTCTCCGCTCAGGCTTTGGCATCGGCATGCGCAAGGACAGCCCTGGAAGCAGAAGCTTT
 CCCTGTCCATACTCAAGTCCCATGAGAATGGCTTCAAGGATCTGGATAAGACATGGGTTTCGGTATCA
 GGAATGCGACTCCCGCAGCAATGCTCCTGCAACCCCTCACTTTTGGAGAATGGCAGGGGTCTTATGCTG
 GTGGCTGGAGGCATCGTAGCTGGGATTTTCTCATTTTTCATTGAGATCGCCTACAAGCGACACAAGGATG
 CCCGTAGGAAGCAGATGCAGCTGGCTTTTGCAGCCGTGAACGTGTGGAGGAAGAACCTGCAGCAGTACCA
 TCCCACTGATATACGGGCCCGCTCAACCTCTCAGATCCCTCGGTGAGCACCGTGGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_001270608

Insert Size:	2721 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:	<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_001270608.1</u> , <u>NP_001257537.1</u>
RefSeq Size:	3876 bp
RefSeq ORF:	2721 bp
Locus ID:	24408
UniProt ID:	<u>P35439</u>
Cytogenetics:	3p13
Gene Summary:	<p>subunit of NMDA-preferring ionotropic glutamate receptors; may play a role in long term potentiation [RGD, Feb 2006]</p> <p>Transcript Variant: This variant (7) lacks an alternate in-frame exon and uses an alternate splice junction at the 5' end of the last exon compared to variant 1. The resulting isoform (4b) lacks an alternate internal segment and has a shorter and distinct C-terminus compared to isoform 1b.</p>