

Product datasheet for **RN217299**

Grin1 (NM_001270610) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grin1 (NM_001270610) 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: >RN217299 representing NM_001270610
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGCACCATGCACCTGCTGACATTGCGCCTGCTTTTTCTGCTCCTTCGCCCGCCGCTGCGACC
 CCAAGATCGTCAACATCGGCGCGGTGCTGAGCAGCGCAAGCATGAACAGATGTTCCGCGAGGCAGTAAA
 CCAGGCCAATAAGCGACACGGCTCTTGGAAAGATACAGCTCAACGCCACTTCTGTACCCACAAGCCCAAC
 GCCATACAGATGGCCCTGTCAAGTGTGAGGACCTCATCTCTAGCCAGGTCTACGCTATCCTAGTTAGCC
 ACCCGCTACTCCCAACGACCCTTCACTCCCACCCTGTCTCCTACACAGCTGGCTTCTACAGAATCCC
 TGTCTGGGACTGACTACCCGAATGTCCATCTACTCTGACAAGAGTATCCACCTGAGTTTCTTCGCACG
 GTGCCGCCCTACTCCACCAGTCCAGCGTCTGGTTTGAGATGATGCGAGTCTACAACCTGGAACCACATCA
 TCCTGCTGGTCAAGGACGACCACGAGGGACGGCAGCGCAGAAGCGCTTGGAGACGTTGCTGGAGGAACG
 GGAGTCCAAGGCAGAGAAGGTGCTGCAGTTTGACCCAGGAACCAAGAATGTGACGGCTCTGCTGATGGAG
 GCCCGGGAACCTGGAGGCCCGGGTCATCCTTTCTGCAAGCGAGGACGACGCTGCCACAGTGTACCGCG
 CAGCCGCAATGCTGAACATGACGGGCTCTGGGTACGTGTGGCTGGTGGGGAACGCGAGATCTCTGGGAA
 CGCCCTGCGCTACGCTCCTGATGGCATCATCGACTTCAGCTCATCAATGGCAAGAATGAGTCAGCCAC
 ATCAGTGACGCGCTGGCGTGGTGGCACAGGCAGTTCACGAACCTCTAGAGAAGGAGAATATCACTGACC
 CACCGCGGGTTGCGTGGGCAACACCAACATCTGGAAGACAGGACCATTGTTCAAGAGGGTGTGATGTC
 TTCTAAGTATGCGGACGGAGTACTGGCCGTGTGGAATCAATGAGGATGGGACCGGAAGTTTGCCAAC
 TATAGTATCATGAACCTGCAGAACCAGCTGGTCAAGTGGCATCTACAATGGTACCCATGTCATCC
 CAATGACAGGAAGATCATCTGGCCAGGAGAGACAGAGAACTCGAGGATACCAGATGTCACCAG
 ACTAAAGATAGTACAATCCACCAAGAGCCCTTGGTGTACGTCAAGCCCAACAATGAGTGTGGGACATGC
 AAAGAGGAGTTCACAGTCAATGGTGACCCAGTGAAGAAGGTGATCTGTACGGGGCCTAATGACACGTC
 CAGGCAGCCACGCCACACAGTGGCCAGTGTCTGCTATGGCTTCTGCATAGACCTGCTCATCAAGCTGGC
 GCGGACCATGAATTTTACCTATGAGGTGCACCTGGTGGCAGATGGCAAGTTTGGCACACAGGAGCGGGTA
 AACACAGCAACAAAAAGGAGTGGAAACGGAATGATGGGCGAGCTACTCAGTGGCAAGCGGACATGATTG
 TGGCACCCTGACCATCAACAATGAGCGTGCAGTACATAGAGTTCTCCAAGCCCTTCAAGTACCAGGG
 CCTGACCATTTTGGTCAAGAAGGAGATCCAGGAGCACACTGGACTCATTTATGCAGCCTTTTCAGAGC
 AACTGTGGTTGCTAGTAGGACTGTGAGTTCATGTGGTGGCTGTGATGCTGTACCTGCTGGACCGCTTCA
 GTCCTTTTGGCCGATTCAAGGTGAACAGTGAAGGAGGAGGAAGATGCACTGACCTGTCTCTGCCAT
 GTGGTTTTCTGGGGCGTCTGCTCAACTCCGGCATTGGGGAAGGTGCCCGCGGAGTTTCTCTGCACGT
 ATCCTAGGCATGGTGTGGGCTGGTTTCGCCATGATCATAGTGGCTTCTACACTGCCAAGTTGGCAGCTT
 TCCTGGTGTGGATCGGCCTGAGGAGCGCATCACGGGCATCAATGACCCAGGCTCAGAAACCCCTCAGA
 CAAGTTCATCTACGCAACTGTAAGCAGAGCTCCGTGGACATCTACTCCGGAGGCAGGTGGAGTTGAGT
 ACCATGTACCGGCACATGGAAAAACACAATTACGAGAGCGCAGCTGAGGCCATCCAGGCTGTGCGGGACA
 ACAAGCTGCACGCCTTTATCTGGGACTCGGCCGTGGAGTTTGAGGCTTCACAGAAGTGGCATCTGGT
 GACCACGGGTGAGCTGTTCTCCGCTCAGGCTTTGGCATCGGCATGCGCAAGGACAGCCCTGGAAGCAG
 AACGTTTTCCCTGTCCATACTCAAGTCCCATGAGAATGGCTTCATGGAAGATCTGGATAAGACATGGGTT
 GGTATCAGGAATGCGACTCCCGCAGCAATGCTCCTGCAACCCCTCACTTTTGAGAATGCGAGGGTCTT
 CATGCTGGTGGCTGGAGGCATCGTAGTGGGATTTTCTCATTTTCATTGAGATCGCCTACAAGCGACAC
 AAGGATGCCCGTAGGAAGCAGATGCAGTGGCTTTTGCAGCCGTGAACGTGTGGAGGAAGAACCTGCAGC
 AGTACCATCCACTGATATCACGGGCCCTCAACCTCTCAGATCCCTCGGTGAGCAGCGTGGT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001270610

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).
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_001270610.1</u> , <u>NP_001257539.1</u>
RefSeq Size:	3813 bp
RefSeq ORF:	2658 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 (8) lacks two alternate in-frame exons and uses an alternate splice junction at the 5' end of the last exon compared to variant 1. The resulting isoform (4a) lacks two alternate internal segments and has a shorter and distinct C-terminus compared to isoform 1b.</p>