

## Product datasheet for **RN217364**

### Grin1 (NM\_001270602) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Grin1 (NM_001270602) 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



[View online »](#)

**Fully Sequenced ORF:** >RN217364 representing NM\_001270602  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGCACCATGCACCTGCTGACATTGCCTGCTTTTTCTGCTCCTTCGCCCCGCCGCTGCGACC  
 CCAAGATCGTCAACATCGGCGCGGTGCTGAGCAGCGCAAGCATGAACAGATGTTCCGCGAGGCAGTAAA  
 CCAGGCCAATAAGCGACACGGCTCTTGGGAAGATACAGCTCAACGCCACTTCTGTACCCACAAGCCAAAC  
 GCCATACAGATGGCCCTGTCAAGTGTGAGGACCTCATCTCTAGCCAGGTCTACGCTATCCTAGTTAGCC  
 ACCCGCTACTCCAACGACCCTTCACTCCCACCCTGTCTCCTACACAGCTGGCTTCTACAGAATCCC  
 TGTCTGGGACTGACTACCCGAATGTCCATCTACTCTGACAAGAGTATCCACCTGAGTTTCTTCGCACG  
 GTGCCGCCCTACTCCACCAGTCCAGCGTCTGGTTTGGATGATGCGAGTCTACAACCTGGAACCATCA  
 TCCTGCTGGTCAAGGACACCACGAGGGACGGCAGCGCAGAAGCGCTTGGAGACGTTGCTGGAGGAACG  
 GGAGTCCAAGAGTAAAAAAGGAACTATGAAAACCTCGACCAACTGTCCTATGACAACAAGCGCGGACCC  
 AAGGCAGAGAAGGTGCTGCAATTTGACCCAGGAACCAAGAATGTGACGGCTCTGCTGATGGAGGCCCGGG  
 AACTGGAGGCCCGGGTCAATCATCTTTCTGCAAGCGAGGACGACGCTGCCACAGTGTACCGCGACGCCG  
 AATGCTGAACATGACGGGCTCTGGGTACGTGTGGCTGGTCCGGGAACCGGAGATCTCTGGGAACGCCCTG  
 CGCTACGCTCCTGATGGCATCATCGGACTTCAAGTCAATGGCAAGAATGAGTCAAGCCACATCAGTG  
 ACGCCGTGGGCGTGGTGGCACAGGCAGTTCACGAACTCTAGAGAAGGAGAATATCACTGACCCACCGCG  
 GGGTTGCGTGGCAACACCAACTCTGGAAGACAGGACCATTTCAAGAGGGTCTGATGCTTCTTAAG  
 TATGCGGACGGAGTACTGGCCGTGTGGAATCAATGAGGATGGGACCGGAAGTTTCCAACTATAGTA  
 TCAATGAACCTGCAGAACCAGCTGGTCAAGTGGGCATCAACAATGGTACCCATGCTCCCAATGA  
 CAGGAAGATCATCTGGCCAGGAGGAGACAGAGAAACCTCGAGGATACCAAGTGTCCACCAGACTAAAG  
 ATAGTGACAATCCACCAAGAGCCCTTCGTGTACGTCAAGCCACAATGAGTGTGGGACATGCAAGAGG  
 AGTTCACAGTCAATGGTACCCAGTGAAGAAGGTGATCTGTACGGGGCCTAATGACACGTCCCCAGGCAG  
 CCCACGCCACACAGTGGCCAGTGTGCTATGGCTTCTGCATAGACCTGCTCATCAAGCTGGCGGGACC  
 ATGAATTTTACCTATGAGGTGCACCTGGTGGCAGATGGCAAGTTTGGCACACAGGAGCGGGTAAACAACA  
 GCAACAAAAGGAGTGAACGGAATGATGGGCGAGCTACTCAGTGGCCAAGCGGACATGATTGTGGCACC  
 ACTGACCATCAACAATGAGCGTGGCAGTACATAGAGTTCTCAAGCCCTTCAAGTACCAGGGCCTGACC  
 ATTTTGGTCAAGAAGGAGATTCCAGGAGCACACTGGACTCATTATGACGCTTTTTCAGAGCACACTGT  
 GGTGCTAGTAGGACTGTCAATGATGGTGGCTGTGATGCTGTACCTGCTGGACCGCTTCAGTCCCTT  
 TGGCCGATTCAAGGTGAACAGTGAAGGAGGAGGAGGAAGATGCACTGACCTGTCTCTGCCATGTGGTTT  
 TCTGGGGCGTCTGCTCAACTCCGGCATTGGGGAAGGTGCCCCCGGAGTTTCTCTGCACGTATCCTAG  
 GCATGGTGTGGGCTGGTTTCGCCATGATCATAGTGGCTTCTTACTGCAACTTGGCAGCTTCTCTGGT  
 GCTGGATCGGCCGTGAGGAGCGCATCACGGGCATCAATGACCCAGGCTCAGAAACCCCTCAGACAAGTTC  
 ATCTACGCAACTGTAAGCAGAGCTCCGTGGACATCTACTCCGGAGGCAGGTGGAGTTGAGTACCATGT  
 ACCGGCACATGGAAAAACAATTACGAGAGCGCAGCTGAGGCCATCCAGGCTGTGCGGGACAACAAGCT  
 GCACGCCCTTATCTGGGACTCGGCCGTGGTGGAGTTTGGGCTTACAGAAGTGGCATCTGGTGAACAG  
 GGTGAGCTGTTCTCCGCTCAGGCTTTGGCATCGGCATGCGCAAGGACAGCCCTGGAAGCAGAAGGTTT  
 CCTGTCCATACTCAAGTCCCATGAGAATGGCTTCAAGGATCTGGATAAGACATGGGTTTCGGTATCA  
 GGAATGCGACTCCCGCAGCAATGCTCCTGCAACCCCTCACTTTTGGAAACATGGCAGGGGTCTTATGCTG  
 GTGGCTGGAGGCATCGTAGCTGGGATTTTCTCATTTTTCATTGAGATCGCCTACAAGCGACACAAGGATG  
 CCCGTAGGAAGCAGATGCAGCTGGCTTTTGCAGCCGTGAACGTGTGGAGGAAGAACCTGCAGGATAGAAA  
 GAGTGGTAGAGCAGAGCCGACCCTAAAAAGAAAGCCACATTTAGGGCTATCACCTCCACCCTGGCCTCC  
 AGCTTCAAGAGACGTAGTCTCCTCAAGACACGAGCACCAGGGGTGGACGCGGCGCTTTGCAAAAACAAA  
 AAGACACAGTGTGCCGCGACGCGCTATTGAGAGGGAGGAGGCCAGCTGCAGCTGTGTTCCCGTATAG  
 GGAGAGCTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_001270602
<b>Insert Size:</b>	2880 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001270602.1</a> , <a href="#">NP_001257531.1</a>
<b>RefSeq Size:</b>	4343 bp
<b>RefSeq ORF:</b>	2880 bp
<b>Locus ID:</b>	24408
<b>UniProt ID:</b>	<a href="#">P35439</a>
<b>Cytogenetics:</b>	3p13
<b>Gene Summary:</b>	subunit of NMDA-preferring ionotropic glutamate receptors; may play a role in long term potentiation [RGD, Feb 2006] Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1b).