

## Product datasheet for **RN217332**

### **Grin1 (NM\_001287423) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Grin1 (NM_001287423) 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:** >RN217332 representing NM\_001287423  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAGCACCATGCACCTGCTGACATTGCGCCTGCTTTTTCTGCTCCTTCGCCCCGCCGCGCTGCGACC  
 CCAAGATCGTCAACATCGGCGCGGTGCTGAGCACGCGCAAGCATGAACAGATGTTCCGCGAGGCAGTAAA  
 CCAGGCCAATAAGCGACACGGCTCTTGGGAAGATACAGCTCAACGCCACTTCTGTACCCACAAGCCCAAC  
 GCCATACAGATGGCCCTGTCAAGTGTGAGGACCTCATCTCTAGCCAGGTCTACGCTATCCTAGTTAGCC  
 ACCCGCTACTCCCAACGACCCTTCACTCCCACCCTGTCTCCTACACAGCTGGCTTCTACAGAATCCC  
 TGTCTGGGACTGACTACCCGAATGTCCATCTACTCTGACAAGAGTATCCACCTGAGTTTCTTCGCACG  
 GTGCCGCCCTACTCCACCAGTCCAGCGTCTGGTTTGAGATGATGCGAGTCTACAACCTGGAACCACATCA  
 TCCTGCTGGTCAAGGACGACCACGAGGGACGGCAGCGCAGAAGCGCTTGGAGACGTTGCTGGAGGAACG  
 GGAGTCCAAGGCAGAGAAGGTGCTGCAGTTTGACCCAGGAACCAAGAATGTGACGGCTCTGCTGATGGAG  
 GCCCGGGAAGTGGAGGCCCGGGTCAATCCTTTCTGCAAGCGAGGACGAGCTGCCACAGTGTACCGCG  
 CAGCCGCAATGCTGAACATGACGGGCTCTGGGTACGTGTGGTGGTGGGGAACGCGAGATCTCTGGGAA  
 CGCCCTGCGCTACGCTCCTGATGGCATCATCGACTTCAGCTCATCAATGGCAAGAATGAGTCAGCCAC  
 ATCAGTGACGCGGTGGCGTGGTGGCACAGGCAGTTCACGAACCTCTAGAGAAGGAGAATATCACTGACC  
 CACCGCGGGTTGCGTGGGCAACACCAACATCTGGAAGACAGGACCATTGTTCAAGAGGGTGTGATGTC  
 TTCTAAGTATGCGGACGGAGTACTGGCCGTGTGGAATCAATGAGGATGGGACCGGAAGTTTGCCAAC  
 TATAGTATCATGAACCTGCAGAACCGAAGCTGGTCAAGTGGGCATCTACAATGGTACCCATGTCATCC  
 CAAATGACAGGAAGATCATCTGGCCAGGAGGAGACAGAGAAACCTCGAGGATACCAGATGCCACCAG  
 ACTAAAGATAGTGACAATCCACCAAGAGCCCTTGGTGTACGTCAAGCCCAATGAGTGTGGGACATGC  
 AAAGAGGAGTTCACAGTCAATGGTGACCCAGTGAAGAAGGTGATCTGTACGGGGCCTAATGACACGTCCC  
 CAGGCAGCCACGCCACACAGTGGCCAGTGTCTATGGCTTCTGCATAGACCTGCTCATCAAGCTGGC  
 GCGGACCATGAATTTTACCTATGAGGTGCACCTGGTGGCAGATGGCAAGTTTGGCACACAGGAGCGGGTA  
 AACACAGCAACAAAAGGAGTGGAAACGGAATGATGGGCGAGCTACTCAGTGGCAAGCGGACATGATTG  
 TGGCACCCTGACCATCAACAATGAGCGTGCAGTACATAGAGTTCTCCAAGCCCTTCAAGTACCAGGG  
 CCTGACCATTTTGGTCAAGAAGGAGATCCAGGAGCACACTGGACTCATTTATGCAGCCTTTTCAGAGC  
 ACTGTGGTTGCTAGTAGGACTGTCAGTTCATGTGGTGGCTGTGATGCTGTACCTGCTGGACCGCTTCA  
 GTCCTTTTGGCCGATTCAAGGTGAACAGTGAGGAGGAGGAGGAAGATGCACTGACCTGTCTCTGCCAT  
 GTGGTTTTCTGGGGCGTCTGCTCAACTCCGGCATTGGGGAAGGTGCCCGGAGTTTCTCTGCACGT  
 ATCCTAGGCATGGTGTGGGCTGGTTTCGCCATGATCATAGTGGCTTCTACACTGCCAAGTTGGCAGCTT  
 TCCTGGTGTGGATCGGCCTGAGGAGCGCATCACGGGCATCAATGACCCAGGCTCAGAAACCCCTCAGA  
 CAAGTTCATCTACGCAACTGTAAGCAGAGCTCCGTGGACATCTACTCCGGAGGCAGGTGGAGTTGAGT  
 ACCATGTACCGGCACATGGAAAAACACAATTACGAGAGCGCAGCTGAGGCCATCCAGGCTGTGCGGGACA  
 ACAAGCTGCACGCCTTTATCTGGGACTCGGCCGTGGAGTTTGAGGCTTCACAGAAGTGGGATCTGGT  
 GACCACGGGTGAGCTGTTCTCCGCTCAGGCTTTGGCATCGGCATGCGCAAGGACAGCCCTGGAAGCAG  
 AACGTTTTCCCTGTCCATACTCAAGTCCCATGAGAATGGCTTCATGGAAGATCTGGATAAGACATGGGTTT  
 GGTATCAGGAATGCGACTCCCGCAGCAATGCTCCTGCAACCCCTCACTTTTGAACAATGGCAGGGTCTT  
 CATGCTGGTGGCTGGAGGCATCGTAGTGGGATTTTCTCATTTTCATTGAGATCGCCTACAAGCGACAC  
 AAGGATGCCCGTAGGAAGCAGATGCAGCTGGCTTTTGCAGCCGTGAACGTGTGGAGGAAGAACCTGCAGG  
 ATAGAAAGAGTGGTAGAGCAGAGCCGACCCTAAAAAGAAAGCCACATTTAGGGCTATCACCTCCACCT  
 GGCCTCCAGCTTCAAGAGACGTAGTCTCCAAAGACACGCAGTACCATCCACTGATATCACGGGCCCC  
 CTCACCTCTCAGATCCCTCGGTACGACCGTGGTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

<b>ACCN:</b>	NM_001287423
<b>Insert Size:</b>	2769 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>	<u><a href="#">NM_001287423.1</a></u> , <u><a href="#">NP_001274352.1</a></u>
<b>RefSeq Size:</b>	3924 bp
<b>RefSeq ORF:</b>	2769 bp
<b>Locus ID:</b>	24408
<b>UniProt ID:</b>	<u><a href="#">P35439</a></u>
<b>Cytogenetics:</b>	3p13
<b>Gene Summary:</b>	<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 (9) 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 (3a) lacks an alternate internal segment and has a shorter and distinct C-terminus compared to isoform 1b.</p>