

## Product datasheet for **RN204265**

### Grin1 (NM\_017010) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Grin1 (NM_017010) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Grin1
Synonyms:	GluN1; NMDAR1; NR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >RN204265 representing NM\_017010  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGCACCATGCACCTGCTGACATTGCGCCTGCTTTTTCTGCTCCTTCGCCCGCCGCTGCGACC  
 CCAAGATCGTCAACATCGGCGCGGTGCTGAGCAGCGCAAGCATGAACAGATGTTCCGCGAGGCAGTAAA  
 CCAGGCCAATAAGCGACACGGCTCTTGGGAAGATACAGCTCAACGCCACTTCTGTACCCACAAGCCAAAC  
 GCCATACAGATGGCCCTGTCAAGTGTGAGGACCTCATCTCTAGCCAGGTCTACGCTATCCTAGTTAGCC  
 ACCCGCTACTCCCAACGACCCTTCACTCCCACCCTGTCTCCTACACAGCTGGCTTCTACAGAATCCC  
 TGTCTGGGACTGACTACCCGAATGTCCATCTACTCTGACAAGAGTATCCACCTGAGTTTCTTCGCACG  
 GTGCCGCCCTACTCCCACAGTCCAGCGTCTGGTTTGAGATGATGCGAGTCTACAACCTGGAACCACATCA  
 TCCTGCTGGTCAAGGACGACCACGAGGGACGGCAGCGCAGAAGCGCTTGGAGACGTTGCTGGAGGAACG  
 GGAGTCCAAGGCAGAGAAGGTGCTGCAGTTTGACCCAGGAACCAAGAATGTGACGGCTCTGCTGATGGAG  
 GCCCGGGAAGTGGAGGCCCGGGTCATCCTTTCTGCAAGCGAGGACGACGCTGCCACAGTGTACCGCG  
 CAGCCGCAATGCTGAACATGACGGGCTCTGGGTACGTGTGGCTGGTGGGGAACGCGAGATCTCTGGGAA  
 CGCCCTGCGCTACGCTCCTGATGGCATCATCGACTTCAGCTCATCAATGGCAAGAATGAGTCAGCCAC  
 ATCAGTGACGCGCTGGCGTGGTGGCACAGGCAGTTCACGAACCTCTAGAGAAGGAGAATATCACTGACC  
 CACCGCGGGTTGCGTGGGCAACACCAACATCTGGAAGACAGGACCATTGTTCAAGAGGGTGTGATGTC  
 TTCTAAGTATGCGGACGGAGTACTGGCCGTGTGGAATCAATGAGGATGGGACCGGAAGTTTGCCAAC  
 TATAGTATCATGAACCTGCAGAACCAGCTGGTCAAGTGGCATCTACAATGGTACCCATGTCATCC  
 CAAATGACAGGAAGATCATCTGGCCAGGAGGAGACAGAGAAACCTCGAGGATACCAGATGTCCACCAG  
 ACTAAAGATAGTACAATCCACCAAGAGCCCTTGGTGTACGTCAAGCCCAATGAGTGTGGGACATGC  
 AAAGAGGAGTTCACAGTCAATGGTGACCCAGTGAAGAAGGTGATCTGTACGGGCTAATGACACGTCCT  
 CAGGCAGCCACGCCACACAGTGGCCAGTGTCTATGGCTTCTGCATAGACCTGCTCATCAAGCTGGC  
 GCGGACCATGAATTTTACCTATGAGGTGCACCTGGTGGCAGATGGCAAGTTTGGCACACAGGAGCGGGTA  
 AACACAGCAACAAAAGGAGTGGAAACGGAATGATGGGCGAGCTACTCAGTGGCAAGCGGACATGATTG  
 TGGCACCCTGACCATCAACAATGAGCGTGCAGTACATAGAGTTCTCCAAGCCCTTCAAGTACCAGGG  
 CCTGACCATTTTGGTCAAGAAGGAGATCCAGGAGCACACTGGACTCATTTATGCAGCCTTTTCAGAGC  
 AACTGTGGTTGCTAGTAGGACTGTGAGTTCATGTGGTGGCTGTGATGCTGTACCTGCTGGACCGCTTCA  
 GTCCTTTTGGCCGATTCAAGGTGAACAGTGAGGAGGAGGAGGAAGATGCACTGACCTGTCTCTGCCAT  
 GTGGTTTTCTGGGGCGTCTGCTCAACTCCGGCATTGGGGAAGGTGCCCGGAGTTTCTCTGCACGT  
 ATCCTAGGCATGGTGTGGGCTGGTTTCGCCATGATCATAGTGGCTTCTACACTGCCAAGTTGGCAGCTT  
 TCCTGGTGTGGATCGGCCTGAGGAGCGCATCACGGGCATCAATGACCCAGGCTCAGAAACCCCTCAGA  
 CAAGTTCATCTACGCAACTGTAAGCAGAGCTCCGTGGACATCTACTCCGGAGGCGAGTGGAGTTGAGT  
 ACCATGTACCGGCACATGGAAAAACACAATTACGAGAGCGCAGCTGAGGCCATCCAGGCTGTGCGGGACA  
 ACAAGCTGCACGCCTTTATCTGGGACTCGGCCGTGCTGGAGTTTGAGGCTTCACAGAAGTGGCATCTGGT  
 GACCAAGGTTGAGCTGTTCTCCGCTCAGGCTTTGGCATCGGCATGCGCAAGGACAGCCCTGGAAGCAG  
 AACGTTTTCCCTGTCCATACTCAAGTCCCATGAGAATGGCTTCATGGAAGATCTGGATAAGACATGGGTTT  
 GGTATCAGGAATGCGACTCCCGCAGCAATGCTCCTGCAACCCCTCACTTTTGAGAATGCGAGGGTCTT  
 CATGCTGGTGGCTGGAGGCATCGTAGTGGGATTTTCTCATTTTCATTGAGATCGCCTACAAGCGACAC  
 AAGGATGCCCGTAGGAAGCAGATGCAGCTGGCTTTTGCAGCCGTGAACGTGTGGAGGAAGAACCTGCAGG  
 ATAGAAAGAGTGGTAGAGCAGAGCCGACCCTAAAAAGAAAGCCACATTTAGGGCTATCACCTCCACCT  
 GGCCTCCAGCTTCAAGAGACGTAGTCTCCAAGACACGACACCGGGGGTGGACGCGGCTTTGCAA  
 AACCAAAAAGACACAGTGTGCCGCGACGCTATTGAGAGGGAGGAGGGCCAGCTGCAGCTGTGTTCC  
 GTCATAGGGAGAGCTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1865\\_h06.zip](https://cdn.origene.com/chromatograms/ja1865_h06.zip)

<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_017010
<b>Insert Size:</b>	2817 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a></p>
<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_017010.1</a> , <a href="#">NP_058706.1</a>
<b>RefSeq Size:</b>	4280 bp
<b>RefSeq ORF:</b>	2817 bp
<b>Locus ID:</b>	24408
<b>UniProt ID:</b>	<a href="#">P35439</a>
<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 (2) lacks an alternate in-frame exon compared to variant 1. The resulting isoform (1a) has the same N- and C-termini but is shorter compared to isoform 1b.</p>