

## Product datasheet for **RN214669**

### Grin2a (NM\_012573) Rat Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Grin2a (NM\_012573) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Grin2a  
**Synonyms:** GluN2A; NMDAR2A; NR2A  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN214669 representing NM\_012573  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGGCAGATTGGGCTACTGGACCTTGCTGGTATTGCCGGCCCTTCTGGTCTGGCGCGATCCGGCGCAGA  
ACGGCGCGCGGAGAAGGGTCCACCAGCGCTGAACATTGCGGTGCTGCTGGGTACAGCCACGACGTGAC  
AGAACCGGAACCTCGAAATCTGTGGGGCCAGAGCAGGCAACCGGCTTGCCCTGGATGTGAACGTGGT  
GGTTATTGATGAACCGCACTGACCCTAAGAGCCTCATCAGCATGTGTGCGACCTCATGTCCGGGGCGC  
GCATCCACGGCTTGGTGTGGAGATGACACGGACCAGGAGGCTGTGGCCAGATGCTGGATTTTATCTC  
CTCACAGACTTTTATCCCATCTTGGGCATTATGGGGTGCATCTATGATCATGGCTGACAAGGATCCG  
ACATCCACGTTCTTCCAGTTTGGAGCCTCCATCCAGCAGCAAGCCACAGTTATGCTGAAGATCATGCAGG  
ACTACGACTGGCAGCTTCTCCCTGGTCACCACCATCTCCCTGGTACCGAGACTTATCAGCTTTAT  
CAAGACAACAGTGGACAACAGCTTTGTGGGCTGGGATATGCAGAACGTGATCACACTGGACACCTCCTTC  
GAGGACGCCAAGACGCAGGTCCAGCTGAAGAAGATCCATCTTCTGTATCCTGCTACTGCTCCAAAG  
ACGAGGCTGTCTCATCCTGAGCGAGGCTCGCTCCCTCGGCTCACTGGCTATGATTTCTCTGGATTGT  
CCCCAGTTTGGTGTCTGGGAACACAGAGCTCATCCCCAAAGAGTTTCCATCAGGTCTCATTTCAGTCTCT  
TATGACGACTGGGACTACAGCCTGGAGGCAAGAGTGAGAGACGGTCTTGGGATCTTAACCACTGCCGCAT  
CCTCCATGTTGGAGAAGTTCTCCTACATTCCTGAGGCCAAGGCCAGCTGCTATGGCAGGCAGAGAAGCC  
AGAGACCCCGCTACACACCCTGCACCAATTCATGGTCAATGTGACTTGGGATGGCAAGGACTTGTCTTTC  
ACTGAGGAAGGTTACCAGGTGCACCCAGGCTTGTGGTATCGTGTGTAACAAGGACCGGGAGTGGGAAA  
AGGTGGCAAGTGGGAGAACCAGACGCTGAGCCTGAGGCACGCTGTGTGGCAAGGTACAAGTCTTTTC  
TGACTGCGAGCCAGATGACAACCACCTCAGCATTGTACCTTGGAGGAAGCCCCCTTCGTCATCGTAGAG  
GACATAGACCCCTGACTGAGACCTGTGTGAGGAACACGGTGCCTGTGCGAAGTTCGTCAGATCAACA  
ATTC AACCAACGAAGGGATGAATGTGAAGAAATGCTGCAAGGGTTCTGCATCGACATCCCAAGAGCT  
GTCCAGAAGTGTGAAGTTCACCTATGACCTTACCTGGTGACCAATGGGAAGCATGGGAAAAAGGTTAAC  
AATGTGTGGAATGGAATGATAGGTGAAGTGGTCTATCAACGAGCAGTCATGGCTGTGGGCTCACTACCA



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TCAATGAGGAGCGTTTCGGAAGTGGTGGACTTCTCGGTGCCCTTCGTGGAGACAGGAATCAGCGTCATGGT  
 CTCCAGGAGTAATGGCACTGTCTCCCCTTCTGCTTTCCTCGAACCTTCAGTGCCTCCGCTGGGTGATG  
 ATGTTTGTGATGCTGCTCATCGTCTCAGCCATTGCTGTCTTCGTTTTGAATACTTCAGTCTGTTGGAT  
 ACAACAGAAACTTAGCCAAAGGAAAGCTCCCCACGGGCTTCTTTTACTATTGGAAAAGCTATATGGCT  
 CCTCTGGGGCCTGGTCTTCAACAATTCTGTGCCTGTCCAGAATCCTAAAGGCACAACCAGCAAGATCATG  
 GTGTCAGTGTGGCCTTCTTGTGTCTCTTCTGGCCAGTTACACAGCCAACCTGGCTGCCTTCATGA  
 TCCAGGAGGAGTTGTGGACCAAGTACTGGCCCTCAGTGACAAGAAGTTCCAGAGACCTCATGACTATTC  
 TCCACCTTCCGATTTGGGACGGTACCCAATGGAAGTACAGAGAGGAATATTCGTAACAACCTACCCGTAT  
 ATGCACCAGTACATGACCAGATTCAACCAGAGGGGAGTGGAGGATGCCTTGGTCAGCTTGAAAACCGGGA  
 AGTTGGACGCTTTCATCTATGACGCAGCCGCTTGAACACTACAAGGCCGGGAGGGATGAAGGCTGTAACT  
 GGTGACCATTGGGAGCGGTACATCTTGTCTACCACAGGCTATGGAATTGCGCTGCAGAAGGGCTCACCC  
 TGGAAAGAGGCAGATTGACCTCGCTCTGCTCCAGTTTGTGGTGTGGTGTGAGTGGAGGAGCTGGAGACAC  
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 GCGGGCGTGTCTACATGCTGGCTGCAGCCATGGCCCTCAGCCTCATCACCTTCATCTGGGAGCACCTC  
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 GCAGGGGCATCTATAGTTGCATCCATGGGTACACATTGAAGAAAAGAAGAAATCTCCAGATTTCAATCT  
 GACTGGATCACAGAGCAACATGCTAAAGCTTCTTCGGTCAGCTAAAAACATCTCCAATATGTCCAACATG  
 AACTCCTCAAGAATGGACTCACCTAAAAGAGCTACTGACTTCATTCAAAGAGGGTCACTTATTGTGGACA  
 TGGTTTCAGACAAGGAAATTTGATATATTCAGACAACAGATCCTTTCAAGGGAAGGACAGTATATTTGG  
 AGACAACATGAATGAACTCCAACATTTGTGGCCAACAGGCACAAGGATAATCTCAGTAACATATGTGTT  
 CAAGGACAGCATCCTCTCACTCTCAATGAGTCCAACCTAACACAGTAGAGGTGGCTGTGAGCACTGAAT  
 CCAAAGGGAACCTCCGACCCCGGAGCTTTGGAAGAAATCCATGGAGTCTCTACGCCAGGATTCTCTAAA  
 CCAGAACCAGTCTCCAGAGGGATGAGAAGACTGCAGAGAATCGGACCCACTCGCTAAAGAGCCTAGG  
 TATCTTCCAGAAGAGGTAGCCCACTCTGACATTTAGAAAACCTCAAGCCGGCCACATGCCACAGGAGC  
 CAGATAACAATAAGAACCACAAGACCAAGGATAACTTCAAACGGTCAATGGCCTTAAGTATCCCAAGGA  
 CTGTAGCGATGTTGACCGCACCTACATGAAAACCAAAGCAAGTTCTCCAGGGATAAGATCTATACCATT  
 GATGGTGAGAAGGAGCCAGCTTCCACTTAGATCCTCCTCAGTTTGTGAGAATAAACCCTGCCTGAGA  
 ATGTGGGCTTCCAGATACCTACCAAGATCACAATGAGAATCCGCAAGGGGGACTCCACACTGCCAT  
 GAACAGGAACCCATTACATAATGAAGACGGCTTCCCAACAATGACCAATATAAATCTATGCCAAGCAC  
 TTTACCTTGAAAGACAAGGTTCCCCACACAGTGAAGGAGTATCGATACCGGCAGAACTCCACACATT  
 GCAGAAGCTGCCCTTTCGAATCTGCCACCTACTCAGGCCACTTTACCATGAGGTCTCCTTCAAGTGTGA  
 TGCTGTCTGCGGATGGGGAATCTCTATGACATTGATGAAGACCAGATGCTTCAGGAGACAGGTAACCCA  
 GCTACTCGGGAGGAGGTCTACCAGCAGGACTGGTACAGAAACAACGCCCTCCAGTTCAGAAAGAACAAGC  
 TAAGGATTAACCGACAGCACTCCTATGATAACATCTGGACAAACCCAGAGAGATAGACCTTAGCAGGCC  
 CTCCCGGAGCATAAGCCTCAAGGACAGGGAACGGCTACTGGAGGGCAACTTGTATGGGAGCCTGTTCACT  
 GTCCCCCTAAGCAAACCTTGGGGAACAAAAGCTCCCTTTTCCCAAGGCTGGAGGACAGCAAGAGGA  
 GCAAGTCTCTCTGCCAGACCACGCTCCGATAATCCTTCTCCACACGATGGGGATGACCAACGCTT  
 AGTTATCGGGAGATGTCCTCGGACCCTTACAAACACTCATTGCCATCACAGGCGGTAATGACAGCTAT  
 CTTCCGTCATCCTTGAGGTCAACAGCATCATATTGCTCCAGGGACAGTGGGGCCACAGTGTGTATA  
 TTTCCAGGCATGTTATGCCTTATGCTGCAAATAAGAATACCATGTACTCTACCCCAAGGTTTTAAATTC  
 CTGCAGCAATAGACGAGTGTACAAGAAAATGCCTAGTATCGAATCTGATGTTTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_012573  
**Insert Size:** 4395 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>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>NM_012573.3, NP_036705.3</u>
<b>RefSeq Size:</b>	4717 bp
<b>RefSeq ORF:</b>	4395 bp
<b>Locus ID:</b>	24409
<b>UniProt ID:</b>	<u>Q00959</u>
<b>Cytogenetics:</b>	10q11
<b>Gene Summary:</b>	may play a role in synaptic transmission, learning and memory [RGD, Feb 2006]