

Product datasheet for **RN217309**

Grin1 (NM_001270605) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grin1 (NM_001270605) 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: >RN217309 representing NM_001270605
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCACCATGCACCTGCTGACATTGCGCCTGCTTTTTCTGCTCCTTCGCCCCGCCGCTGCGACC
 CCAAGATCGTCAACATCGGCGCGGTGCTGAGCAGCGCAAGCATGAACAGATGTTCCGCGAGGCAGTAAA
 CCAGGCCAATAAGCGACACGGCTCTTGGGAAGATACAGCTCAACGCCACTTCTGTACCCACAAGCCAAAC
 GCCATACAGATGGCCCTGTCAAGTGTGAGGACCTCATCTCTAGCCAGGTCTACGCTATCCTAGTTAGCC
 ACCCGCTACTCCCAACGACCCTTCACTCCCACCCTGTCTCTACACAGCTGGCTTCTACAGAATCCC
 TGTCTGGGACTGACTACCCGAATGTCCATCTACTCTGACAAGAGTATCCACCTGAGTTTCTTCGCACG
 GTGCCGCCCTACTCCCACAGTCCAGCGTCTGGTTTGAGATGATGCGAGTCTACAACCTGGAACCATCA
 TCCTGCTGGTCAAGGACGACCACGAGGGACGGCAGCGCAGAAGCGCTTGGAGACGTTGCTGGAGGAACG
 GGAGTCCAAGGCAGAGAAGGTGCTGCAGTTTGACCCAGGAACCAAGAATGTGACGGCTCTGCTGATGGAG
 GCCCGGGAACCTGGAGGCCCGGGTCATCCTTTCTGCAAGCGAGGACGAGCTGCCACAGTGTACCGCG
 CAGCCGCAATGCTGAACATGACGGGCTCTGGGTACGTGTGGCTGGTGGGGAACGCGAGATCTCTGGGAA
 CGCCCTGCGCTACGCTCCTGATGGCATCATCGACTTCAGCTCATCAATGGCAAGAATGAGTCAGCCAC
 ATCAGTGACGCGCTGGCGTGGTGGCACAGGCAGTTCACGAACCTCTAGAGAAGGAGAATATCACTGACC
 CACCGCGGGTTGCGTGGGCAACACCAACATCTGGAAGACAGGACCATTGTTCAAGAGGGTGTGATGTC
 TTCTAAGTATGCGGACGGAGTACTGGCCGTGTGGAATCAATGAGGATGGGACCGGAAGTTTGCCAAC
 TATAGTATCATGAACCTGCAGAACCAGCTGGTGAAGTGGCATCTACAATGGTACCCATGTCATCC
 CAAATGACAGGAAGATCATCTGGCCAGGAGGAGACAGAGAACTCGAGGATACCAGATGCCACCCAG
 ACTAAAGATAGTACAATCCACCAAGAGCCCTTGGTGTACGTCAAGCCCAATGAGTGTGGGACATGC
 AAAGAGGAGTTCACAGTCAATGGTGACCCAGTGAAGAAGGTGATCTGTACGGGGCCTAATGACACGTCCC
 CAGGCAGCCACGCCACACAGTGGCCAGTGTCTATGGCTTCTGCATAGACCTGCTCATCAAGCTGGC
 GCGGACCATGAATTTTACCTATGAGGTGCACCTGGTGGCAGATGGCAAGTTTGGCACACAGGAGCGGGTA
 AACACAGCAACAAAAGGAGTGGAAACGGAATGATGGGCGAGCTACTCAGTGGCAAGCGGACATGATTG
 TGGCACCACTGACCATCAACAATGAGCGTGGCAGTACATAGAGTTCTCCAAGCCCTTCAAGTACCAGGG
 CCTGACCATTTTGGTCAAGAAGGAGATCCCAGGAGCACACTGGACTCATTTATGCAGCCTTTTCAGAGC
 AACTGTGGTTGCTAGTAGGACTGTCAGTTCATGTGGTGGCTGTGATGCTGTACCTGCTGGACCGCTTCA
 GTCCTTTTGGCCGATTCAAGGTGAACAGTGAGGAGGAGGAGGAAGATGCACTGACCTGTCTCTGCCAT
 GTGGTTTTCTGGGGCGTCTGCTCAACTCCGGCATTGGGGAAGGTGCCCCCGGAGTTTCTCTGCACGT
 ATCCTAGGCATGGTGTGGGCTGGTTTCGCCATGATCATAGTGGCTTCTACACTGCCAAGTTGGCAGCTT
 TCCTGGTGTGGATCGGCCTGAGGAGCGCATCACGGGCATCAATGACCCAGGCTCAGAAACCCCTCAGA
 CAAGTTCATCTACGCAACTGTAAGCAGAGCTCCGTGGACATCTACTCCGGAGGCAGGTGGAGTTGAGT
 ACCATGTACCGGCACATGGAAAAACACAATTACGAGAGCGCAGCTGAGGCCATCCAGGCTGTGCGGGACA
 ACAAGCTGCACGCCTTTATCTGGGACTCGGCCGTGGAGTTTGAGGCTTCACAGAAGTGGGATCTGGT
 GACCACGGGTGAGCTGTTCTCCGCTCAGGCTTTGGCATCGGCATGCGCAAGGACAGCCCTGGAAGCAG
 AACGTTTTCCCTGTCCATACTCAAGTCCCATGAGAATGGCTTCATGGAAGATCTGGATAAGACATGGGTTT
 GGTATCAGGAATGCGACTCCCGCAGCAATGCTCCTGCAACCCCTCACTTTTGAACAATGGCAGGGTCTT
 CATGCTGGTGGCTGGAGGCATCGTAGCTGGGATTTTCTCATTTCATTGAGATCGCCTACAAGCGACAC
 AAGGATGCCCGTAGGAAGCAGATGCAGCTGGCTTTTGCAGCCGTGAACGTGTGGAGGAAGAACCTGCAGA
 GCACCGGGGGTGGACGCGCGCTTTGCAAAACCAAAAAGACACAGTGTGCCGCGACGCGCTATTGAGAG
 GGAGGAGGGCCAGCTGCAGCTGTGTTCCCGTCATAGGGAGAGC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI
ACCN: NM_001270605

Insert Size:	2706 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_001270605.1</u> , <u>NP_001257534.1</u>
RefSeq Size:	4169 bp
RefSeq ORF:	2706 bp
Locus ID:	24408
UniProt ID:	<u>P35439</u>
Cytogenetics:	3p13
Gene Summary:	subunit of NMDA-preferring ionotropic glutamate receptors; may play a role in long term potentiation [RGD, Feb 2006] Transcript Variant: This variant (4) lacks two alternate in-frame exons compared to variant 1. The resulting isoform (2a) has the same N- and C-termini but is shorter compared to isoform 1b.