

Product datasheet for **RN217352**

Grin1 (NM_001270606) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grin1 (NM_001270606) 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: >RN217352 representing NM_001270606
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGCACCATGCACCTGCTGACATTGCGCCTGCTTTTTCTGCTCCTTCGCCCCGCGCCCTGCGACC
 CCAAGATCGTCAACATCGGCGCGGTGCTGAGCAGCGCAAGCATGAACAGATGTTCCGCGAGGCAGTAAA
 CCAGGCCAATAAGCGACACGGCTCTTGGGAAGATACAGCTCAACGCCACTTCTGTACCCACAAGCCCAAC
 GCCATACAGATGGCCCTGTCAGTGTGTGAGGACCTCATCTCTAGCCAGGTCTACGCTATCCTAGTTAGCC
 ACCCGCTACTCCAACGACCATTCACTCCCACCCTGTCTCCTACACAGCTGGCTTCTACAGAATCCC
 TGTCTGGGACTGACTACCCGAATGTCCATCTACTCTGACAAGAGTATCCACCTGAGTTTCTTCGCACG
 GTGCCGCCCTACTCCCACAGTCCAGCGTCTGGTTTGAGATGATGCGAGTCTACAACCTGGAACCACATCA
 TCCTGCTGGTCAAGGACACCACGAGGGACGGCAGCGCAGAAGCGCTTGGAGACGTTGCTGGAGGAACG
 GGAGTCCAAGAGTAAAAAAGGAACTATGAAAACCTCGACCAACTGTCCTATGACAACAAGCGCGGACCC
 AAGGCAGAGAAGGTGCTGCAATTTGACCCAGGAACCAAGAATGTGACGGCTCTGCTGATGGAGGCCCGGG
 AACTGGAGGCCCGGGTCAATCATCTTTCTGCAAGCGAGGACGACGCTGCCACAGTGTACCGCGACGCCG
 AATGCTGAACATGACGGGCTCTGGGTACGTGTGGCTGGTCCGGGAACCGGAGATCTCTGGGAACGCCCTG
 CGCTACGCTCCTGATGGCATCATCGGACTTCAGCTCATCAATGGCAAGAATGAGTCAGCCACATCAGTG
 ACGCCGTGGGCGTGGTGGCACAGGCAGTTCACGAACTCTAGAGAAGGAGAATATCACTGACCCACCGCG
 GGGTTGCGTGGCAACACCAACATCTGGAAGACAGGACCATTGTTCAAGAGGGTCTGATGTCTTCTAAG
 TATGCGGACGGAGTACTGGCCGTGTGAATTAATGAGGATGGGACCGGAAGTTTGCCAACTATAGTA
 TCATGAACCTGCAGAACCGCAAGCTGGTCAAGTGGGCATCTACAATGGTACCCATGCTCCCAATGA
 CAGGAAGATCATCTGGCCAGGAGGAGACAGAGAAACCTCGAGGATACCAGATGTCCACCAGACTAAAG
 ATAGTGACAATCCACCAAGAGCCCTTCGTGTACGTCAAGCCACAAATGAGTGATGGGACATGCAAGAGG
 AGTTCACAGTCAATGGTACCCAGTGAAGAAGGTGATCTGTACGGGGCCTAATGACACGTCCCCAGGCAG
 CCCACGCCACACAGTGGCCAGTGTCTATGGCTTCTGCATAGACCTGCTCATCAAGCTGGCGCGGACC
 ATGAATTTTACCTATGAGGTGCACCTGGTGGCAGATGGCAAGTTTGGCACACAGGAGCGGGTAAACAACA
 GCAACAAAAGGAGTGAACGGAATGATGGGCGAGCTACTCAGTGGCCAAGCGGACATGATTGTGGCACC
 ACTGACCATCAACAATGAGCGTGGCAGTACATAGAGTTCTCAAGCCCTTCAAGTACCAGGGCCTGACC
 ATTTTGGTCAAGAAGGAGATTCCAGGAGCACACTGGACTCATTATGACGCTTTTCAGAGCACACTGT
 GGTGCTAGTAGGACTGTCAATTCATGTGGTGGCTGTGATGCTGTACCTGCTGGACCGCTTCAGTCCCTT
 TGGCCGATTCAAGGTGAACAGTGAAGGAGGAGGAAGATGCACTGACCCCTGTCCTCTGCCATGTGGTTT
 TCCTGGGGCGTCTGCTCAACTCCGGCATTGGGGAAGGTGCCCCCGGAGTTTCTCTGCACGTATCCTAG
 GCATGGTGTGGGCTGGTTTCGCCATGATCATAGTGGCTTCTTACTGCAACTTGGCAGCTTTCCTGGT
 GCTGGATCGGCCCTGAGGAGCGCATCACGGGCATCAATGACCCAGGCTCAGAAACCCCTCAGACAAGTTC
 ATCTACGCAACTGTAAGCAGAGCTCCGTGGACATCTACTCCGGAGGCAGGTGGAGTTGAGTACCATGT
 ACCGGCACATGGAAAAACAATTACGAGAGCGCAGCTGAGGCCATCCAGGCTGTGCGGGACAACAAGCT
 GCACGCCCTTATCTGGGACTCGGCCGTGGTGGAGTTTGGGCTTACAGAAGTGGCATCTGGTGACCACG
 GGTGAGCTGTCTCCGCTCAGGCTTTGGCATCGGCATGCGCAAGGACAGCCCTGGAAGCAGAAGCTTT
 CCCTGTCCATACTCAAGTCCCATGAGAATGGCTTCATGGAAGATCTGGATAAGACATGGGTTTCGGTATCA
 GGAATGCGACTCCCGCAGCAATGCTCCTGCAACCCCTCACTTTTGGAAACATGGCAGGGGTCTTCATGCTG
 GTGGCTGGAGGCATCGTAGCTGGGATTTTCTCATTTTTCATTGAGATCGCCTACAAGCGACACAAGGATG
 CCCGTAGGAAGCAGATGCAGCTGGCTTTTGCAGCCGTGAACGTGTGGAGGAAGAACCTGCAGGATAGAAA
 GAGTGGTAGAGCAGAGCCCGACCCTAAAAAGAAAGCCACATTTAGGGCTATCACCTCCACCCTGGCCTCC
 AGCTTCAAGAGACGTAGTCTCCTCAAGACACGCAGTACCATCCACTGATATCACGGGCCCGCTCAACC
 TCTCAGATCCCTCGGTACGACCCGTGGT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN:	NM_001270606
Insert Size:	2832 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_001270606.1, NP_001257535.1</u>
RefSeq Size:	3987 bp
RefSeq ORF:	2832 bp
Locus ID:	24408
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 (5) uses an alternate splice junction at the 5' end of the last exon compared to variant 1. The resulting isoform (3b) has a shorter and distinct C-terminus compared to variant 1b.