

Product datasheet for **RN217331**

Grin1 (NM_001270603) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grin1 (NM_001270603) 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:

>RN217331 representing NM_001270603

Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCACCATGCACCTGCTGACATTGCGCCTGCTTTTTCTGCTCCTTCGCCCGCCGCTGCGACC
CCAAGATCGTCAACATCGGCGCGGTGCTGAGCACGCGCAAGCATGAACAGATGTTCCGCGAGGCAGTAAA
CCAGGCCAATAAGCGACACGGCTCTTGGGAAGATACAGCTCAACGCCACTTCTGTACCCACAAGCCCAAC
GCCATACAGATGGCCCTGTCAAGTGTGAGGACCTCATCTCTAGCCAGGTCTACGCTATCCTAGTTAGCC
ACCCGCTACTCCAACGACCCTTCACTCCCACCCTGTCTCTACACAGCTGGCTTCTACAGAATCCC
TGTCTGGGACTGACTACCCGAATGTCCATCTACTCTGACAAGAGTATCCACCTGAGTTTCTTCGCACG
GTGCCGCCCTACTCCACCAGTCCAGCGTCTGGTTTGAGATGATGCGAGTCTACAACCTGGAACCACATCA
TCCTGCTGGTCAAGGACGACCACGAGGGACGGCAGCGCAGAAGCGCTTGGAGACGTTGCTGGAGGAACG
GGAGTCCAAGAGTAAAAAAGGAACTATGAAAACCTCGACCAACTGTCCTATGACAACAAGCGCGGACCC
AAGGCAGAGAAGGTGCTGCAATTTGACCCAGGAACCAAGAATGTGACGGCTCTGCTGATGGAGGCCCGGG
AACTGGAGGCCCGGGTCAATCATCTTTCTGCAAGCGAGGACGACGCTGCCACAGTGTACCGCGACGCCG
AATGCTGAACATGACGGGCTCTGGGTACGTGTGGCTGGTCCGGGAACCGGAGATCTCTGGGAACGCCCTG
CGCTACGCTCCTGATGGCATCATCGGACTTCAAGTCAATGGCAAGAATGAGTCAAGCCACATCAGTG
ACGCCGTGGGCGTGGTGGCACAGGCAGTTCACGAACTCTAGAGAAGGAGAATATCACTGACCCACCGCG
GGGTTGCGTGGCAACACCAACATCTGGAAGACAGGACCATTGTTCAAGAGGGTCTGATGTCTTCTAAG
TATGCGGACGGAGTACTGGCCGTGTGGAATCAATGAGGATGGGACCGGAAGTTTCCCAACTATAGTA
TCATGAACCTGCAGAACCGCAAGCTGGTCAAGTGGGCATCAACATGGTACCCATGTCAATCCCAAGTGA
CAGGAAGATCATCTGGCCAGGAGGAGACAGAGAAACCTCGAGGATACCAAGATGTCCACCAGACTAAAG
ATAGTGACAATCCACCAAGAGCCCTTCGTGTACGTCAAGCCACAAATGAGTGTGGGACATGCAAGAGG
AGTTCACAGTCAATGGTACCCAGTGAAGAAGGTGATCTGTACGGGGCCTAATGACACGTCCCCAGGCAG
CCCACGCCACACAGTGGCCAGTGTCTGCTATGGCTTCTGCATAGACCTGCTCATCAAGCTGGCGGGACC
ATGAATTTTACCTATGAGGTGCACCTGGTGGCAGATGGCAAGTTTGGCACACAGGAGCGGGTAAACAACA
GCAACAAAAGGAGTGAACGGAATGATGGGCGAGCTACTCAGTGGCCAAGCGGACATGATTGTGGCACC
ACTGACCATCAACAATGAGCGTGGCAGTACATAGAGTTCTCAAGCCCTTCAAGTACCAGGGCCTGACC
ATTTTGGTCAAGAAGGAGATTCCAGGAGCACACTGGACTCATTATGACGCTTTTTCAGAGCACACTGT
GGTTGCTAGTAGGACTGTCAATTCATGTGGTGGCTGTGATGCTGTACCTGCTGGACCGCTTCAGTCCCTT
TGGCCGATTCAAGGTGAACAGTGAAGGAGGAGGAAAGATGCACTGACCCCTGTCCTCTGCCATGTGGTTT
TCTGGGGCGTCTGCTCAACTCCGGCATTGGGGAAGGTGCCCCCGGAGTTTCTCTGCACGTATCCTAG
GCATGGTGTGGGCTGGTTTCGCCATGATCATAGTGGCTTCTTACTGCAACTGGCAGCTTCTCTGGT
GCTGGATCGGCCCTGAGGAGCGCATCACGGGCATCAATGACCCAGGCTCAGAAACCCCTCAGACAAGTTC
ATCTACGCAACTGTAAAGCAGAGCTCCGTGGACATCTACTCCGGAGGCAGGTGGAGTTGAGTACCATGT
ACCGGCACATGGAAAAACAATTACGAGAGCGCAGCTGAGGCCATCCAGGCTGTGCGGGACAACAAGCT
GCACGCCCTTATCTGGGACTCGGCCGTGGTGGAGTTTGGGCTTACAGAAGTGGCATCTGGTGAACACG
GGTGAGCTGTCTCCGCTCAGGCTTTGGCATCGGCATGCGCAAGGACAGCCCTGGAAGCAGAAGGTTT
CCCTGTCCATACTCAAGTCCCATGAGAATGGCTTTCATGGAAGATCTGGATAAGACATGGGTTTCGGTATCA
GGAATGCGACTCCCGCAGCAATGCTCCTGCAACCCCTCACTTTTGGAAACATGGCAGGGGTCTTCATGCTG
GTGGCTGGAGGCATCGTAGCTGGGATTTTCTCATTTTTCATTGAGATCGCCTACAAGCGACACAAGGATG
CCCGTAGGAAGCAGATGCAGCTGGCTTTTGCAGCCGTGAACGTGTGGAGGAAGAACCTGCAGAGCACCGG
GGGTGGACCGCGCTTTGCAAAACCAAAAAGACACAGTCTGCCGCGACGCGCTATTGAGAGGGAGGAG
GGCCAGCTGCAGCTGTGTTCCCGTTCATAGGAGAGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:	NM_001270603
Insert Size:	2769 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_001270603.1</u> , <u>NP_001257532.1</u>
RefSeq Size:	4232 bp
RefSeq ORF:	2769 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 (3) lacks an alternate in-frame exon compared to variant 1. The resulting isoform (2b) has the same N- and C-termini but is shorter compared to isoform 1b.