

## Product datasheet for RN209547

### Grin3b (NM\_133308) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Grin3b (NM_133308) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Grin3b
Synonyms:	GluN3B; NMDAR3B; NR3B
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN209547 representing NM_133308 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGC**C

ATGGAGAGTGTGCGGACGCTGTGGCTCAGCGTGGCCCTGGCGCTGGCGGTGGGGTCCCGAGTGGTGGCG  
GTCACCCTCAGCCCTGCCGGTCCCACGCGCGCTGGGGCCTCCGTGCGCCTGGCGGCGCTCCTGCCCG  
GGCGCCCGCCGCGCGCCGCGTCTAGCTGCCCTGGCCACCCTGCGCGCGGCTGCCGCACAACCTG  
AGTCTGGAAGTGGTGGCCGTCCCGACCCGGGACCCCGGTTCGCTAGCTCGAGGTCTGTGCCAGG  
TTCTGGACCCGCTGGCGTGGTGGCCTCTATAGCCTTTCCCGAGGCGCGGCCGAGCTGCGGCTACTGCA  
GTTCTGGCAGCCGCCACAGAGACCCAGTGGTGGAGCGTCTGCGGAGGGAGGTGCGCACGGCCCTCGGA  
GCCCGACTCCGTTCATCTGCAGCTGGACTGGGCTAGTCCCCTGGAGACCATACTGGATGTGCTGGTGT  
CCCTGGTACGGGCACATGCTGGGAGGACATTGCTCTAGTACTCTGCCGTGTCCGGGACCCCTGGCAGCCT  
GGTGACACTCTGGACTAACCATGCTAGCCAGGCTCCAAAGTTTGTGCTGGACCTGAGCCGGCTGGACAGC  
AGGAATGACAGCCTTCGGGCTGGACTGGCCCTGTTGGGGCGCTGGAAGGAGGGGAACCCAGTGCCTG  
CAGCAGTCCCTAGGCTGCAGCACTGCCCGTGCACATGAGGCTCCTAGAGGCTGCACCACCGGGTCCCCA  
GTGGTTGCTGGGCACACCATGCCCCTGAGGCACTGCCACGACTGGTCTGCCACCTGGCGTGTGGCG  
CTGGGGAAACCGAACAACTCTCTGGAAGCTGTCGTCACGACATGGTGGAGCTTGTGGCTCAGGCAC  
TCAGTAGCATGGCCCTGTACACCCAGAGCGGGCACTGCTCCAGCTGTGGTGAAGTGTGATGACCTGAA  
AACAGGCGGATCTGAGGCAACAGGGCGCACCTGGCTCGGTTTCTCGGCAACACCTCATTTAGGGCCGA  
ACAGGGGCGTGTGGGTGACAGGCTCCTCTCAGGTGCATGTGTCTCGGCATTTCAAGGTATGGAGCTGC  
GCCGGATCCGCTGGGTGCCAGCCTGGCAACCGTGGGCGAGCTGGCAGGATGGACAGCTGGACTTCCA  
GCCAGGGCAGCCGCTCTCCGAGTCCCATCTCCGTCTGGCACCCAGGCCGACCAAGCTGCGTGTGGTA  
ACCCTGGTGAACACCCGTTTGTGTTCCACAGGAATCTGATGAAGACGGACAGTCCCAGCTGGGCAGC  
TGTGTCTGGACCCAGGCACCAATGACTCAGCCAGGCTGGATGCCCTCTTTGCTGCACTGGTGAATGGCTC  
AGTACCTCGAACGCTGAGAAGATGCTGCTATGGCTACTGCATCGACCTGCTGGAGCGGCTGGCCGAGGAC  
CTGGCCTTTGACTTTGAGCTCTATATTGTGGGGATGGCAAGTACGGGGCCCTGCGTGTGGCGCTGGA



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CGGGCCTGGTGGGTGACCTGCTGGCTGGCCGGGCACACATGGCTGTGACCAGCTTCAGCATCAACTCAGC  
 TCGCTCTCAGGTGGTGGATTTACCAGCCCTTTCTTCTCCACCAGCCTGGGGATTATGGTGCGCACGAGA  
 GACACGGCCTCGCCATCGGGGCTTTTATGTGGCCCTGCACTGGTCCATGTGGGTGGCGTGTGGTGGT  
 CTCTGCACCTCACAGCGCTCTTTCTCACCCTGTACGAATGGCGAAGTCCCTACGGGCTCACGCCGCGCG  
 CCGCAACCGTGGCACTGTCTTCTTACTCCTCCGCGCTCAACCTGTGCTATGCCATTCTCTTTGGACGC  
 ACTGTCTCCAGTAAGACGCCAAGTGCCTACTGGACGCTTCTCATGAACCTCTGGGCAATCTTCTGCC  
 TGCTGGTGTCTTCCAGTTACACGGCCAACCTGGCTGCTGTCATGGTTGGGGACAAAACCTTTGAGGAGCT  
 GTCTGGAATCCATGATCCAAGCTGCACCACCCTTCCAAGGCTTTCGCTTTGGCACCGTATGGGAGAGC  
 AGCGCGGAGGCCTACATCAAGGCAAGCTTCCCTGAGATGCACGCACACATGCGTGGCACAGCGACCCCA  
 CCACTCCACATGGGGTGGCCATGCTCACGAGCGACCCGCCAAGCTCAACGCCTTCATCATGGATAAATC  
 ACTACTGGACTATGAGGTGTCCATAGATGCGGACTGCAAGCTGCTCACCGTTGGCAAACCTTTGCTATC  
 GAGGGCTACGGCATAGGGCTACCCAAAACCTCGCCGCTCACCTCAACCTGTGGAGTTCATCAGTAGGT  
 ACAAGTCTTCAGGCTTCATTGATCTGCTCCATGACAAGTGTACAAGATGGTGCCTTGGCGGAAGCGGGT  
 GTTCGCGTGACGGAGACGCTGCAGATGGGGTCTACCACTTCTCAGGATTGTTGTCTGCTGTGCCTC  
 GGGCTGGGCAGCGCTTCTCACCTCTCTGGGTGAGCATGTCTTCTACCGCTGGTGTGCCGCGCATCC  
 GCAGGGGTAATAAGCTGCAGATTGGCTTCACACGAGCCAGAAGATCCACCGAGCCCTCAATACAGGACC  
 ACCCGAGGGGCAACAGGAGAGGGCAGAGCAGGAGCGCAGCGGCCCAAGGACGAGCTGCCTGCCACCGAT  
 GGTGCAGGGCGCTGGAGGCGGGTGCGCCGGGCTGTGGAACGGGAGCGACGCGTGCCTTCTGCTGGAAC  
 CTGGGGAGGCTGGCGGAGACCGCCGCTGCTCTGCTCCAACGGGCCCGGGCTGCAAGCGGAGCTGCGGGA  
 GCTGGAGCTGCGCATTGAGGCTGCACGGGAGCGGCTGCGCAGTGCCTGTTGCGGCGCGGGGAGCTGCGG  
 GCCCTGCTGGGGATGGCACCCGGCTCAGGCCACTGCGCTGTTGCATGCGGCGCCTGCTGAGAGCTGA

AGCGGACCGACGCTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-RsrII
- ACCN:** NM\_133308
- Insert Size:** 3009 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).
- 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:**
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:** [NM\\_133308.2](#), [NP\\_579842.2](#)
- RefSeq Size:** 3178 bp
- RefSeq ORF:** 3009 bp
- Locus ID:** 170796

UniProt ID: [Q8VHN2](#)

Cytogenetics: 7q11

Gene Summary: a subunit of the glutamate receptor with important roles in the central nervous system, including neuronal development, plasticity and neurodegeneration [RGD, Feb 2006]