

## Product datasheet for RN217494

### Grin3a (NM\_138546) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Grin3a (NM_138546) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Grin3a
Synonyms:	chi-1; GluN3A; NR3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN217494 representing NM_138546 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGAGGAGACTGAGTTTGTGGTGGCTGCTGAGCAGGGTCTGTCTGCTGCTGCCGCCGCCCTGCGCACTGG  
TGCTGGCCGGGGTGCCAGCTCCTCCTCGCACCCGCAACCCTGCCAGATCCTCAAGCGCATCGGACACGC  
GGTGAGGGTGGGCGGGTGCACCTTGCAACCCTGGACCACGGCCCCACGCGCAGCCAGTCGCGCTCAGGAA  
GGCAGGCGAGGGCGGGTGCCAGAGGGATGATCCAGAGTCCGGGACGTGGCGGCCACCGCGCCCTCGCAAG  
GCGCACGCTGGTTGGGGAGCGCCCTGCATGGCCGGGGTCCACCCGGCTCCCGAAAGCTCGGGGAGGGCGC  
GGGGGCCGAGACCCTGTGGCCGCGGGATGCCCTACTGTTGCTGTGAAAACTTGAACCGTGTGGAAGGG  
CTCCTACCCTACAACCTGTCTTTGGAAGTAGTGATGGCCATTGAGGCGGGCTGGGCGATCTGCCGCTTA  
TGCCCTTCTCTCCCAAGCTCACCGTGGAGCAGTGACCCTTTCTCTTTCTGCAGAGCGTGTGCCACAC  
CGTAGTGGTACAAGGGGTGTCGGCGCTGCTGGCCTTCCCCAGAGCCAGGGCGAAATGATGGAGCTGGAC  
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GTTTGGCTGTGACATGGACAGTATCCGGCAGATATTTGAAATGTCCACACAGTTTGGGCTATCACCTCCT  
GAACTTCACTGGGTTTTAGGAGACTCCCAGAATGTGGAGAACTGAGGACAGAAGGCTGCCCTTAGGGC  
TCATTGCTCATGAAAAACACACAATCTGTCTTTGAGTACTACGTTCCAGGATGCCATGGAGTTGGTTGC  
AAGAGCTGTAGCCACAGCCACCATGATCCAGCCAGAGCTTGTCTCCTTCCAGCACAATGAACTGCATG  
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GTCTCAGTGGTTCCATCAAAGTAAAGGGCTCCACCATCATCAGCTCAGAGAACAACCTTTTTCATCTGGAA  
CTTGACAGCACGCCCTATGGGAAAGCAATGTGGACTCGCTGGGACAGCTGGCAAGGAGGAAGGATAGTC  
ATGGACTCTGGAATATGGCCAGAGCAGGCCAGAGGCACAAAACCACTTCCAGCACCAAAACAAGTTAC



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ACTTGAGAGTGGTGACATTGATTGAACCCCATTTGTTTTACGAGAGAAGTAGACGATGAAGGCTTATG
CCCTGCTGGACAGCTCTGTCTAGACCCTATGACTAACGACTCTTCCATGCTGGATCGTCTGTTTAGCAGC
CTGCATAGCAGTAATGACACAGTGCCAATCAAGTTCAAGAAGTGTGTTATGGGTACTGCATCGATCTCC
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TCTTTCAGCATCAATACCGCACGAAGCCAGGTGATAGATTTACCAGCCCTTTCTTCTCAACCAAGTTGG
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TAGGAAAGCCATTTGCCATCGAAGGATATGGCATTGGTCTCCCTCAAACCTCTCCATTGACCTCTAATAT
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GTTCCCTGCGGAAAGAGAAGCTTTGCCGCTCACTGAGACTTTGCAAATGGGCATCAAGCACTTCTCTGGAC
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ACCCACGAGCTCATGGTATGGAATACTTCCAATCTGAGTCATGACAACCAACGAAAATACATCTTTAAT
GACGAGGAAGGACAAAACAGCTGGGTACCCAGGCCACCAGGACATCCCTCTCCCTCAGAGGAGAAGAG
AGCTCCCTGCCTCACTGACCACCAATGGGAAAGCAGACTCCCTCAATGTAACCTCGAGACTCCGTGATTCA
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ACAGAGCTGGAGGAGTATCAAAAGACAAATCGGACTTGTGAATCCTAG

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**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_138546
- Insert Size:** 3408 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:**

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\\_138546.2](#), [NP\\_612555.1](#)

**RefSeq Size:** 4386 bp

**RefSeq ORF:** 3408 bp

**Locus ID:** 191573

**UniProt ID:** [Q9R1M7](#)

**Cytogenetics:** 5q22

**Gene Summary:** glutamate receptor subunit involved in neuronal signaling [RGD, Feb 2006]  
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).