

## Product datasheet for MR219510

### Grin3b (NM\_130455) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Grin3b (NM_130455) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Grin3b
Synonyms:	GluN3B; NR3B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR219510 representing NM_130455 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGTGTGTGCAGACGCTGTGGCTCAGCCTGGCCCTGGCGCTGGCGCAGGGTCTGGGTGGTGC  
GTCACCCCTCAGCCCTGCGGGTCCCACGCGCGCCGGGGCTCCGTGCGCCTGGCTGCGCTCTACCCCG  
GGCGCCCGCCCGCGCCCGCTCCTAGCCGCCCTGGCCACCCCTCCCGCGGCTGCCGACAACTG  
AGTCTGGAGCTAGTGGCGTCCCGTCCCAACCCGGGACCCCGCTCGTGGCCCGAGGTCTGTGCCAGG  
TTCTGGCACCCCGCGTGGTGGCCTCTATAACCTTTCCGAGGCGCGGCTGAGCTACGGCTATTGCA  
GTTCTGGCAGCTGCCACAGAGACCCCGGTGCTGAGCGTCTACGGAGGGAGGTGCGCGCCCTCGGA  
GCTCCGACCCCGTTCACCTGCAGCTGGACTGGGCTAGTCCCCTGGAGACCATCCTGGATGTGCTGGT  
CCCTGGTACGGGCACACGCTGGGAGGACATTGCTCTAGTGTCTGTCTGTCGTCGGGACCCAGTGGCT  
GGTACACTCTGGACCAGCCGTGCTAGCCAGGCTCCAAAGTTTGTGCTGGACCTGAGCCAGTTGGACAGC  
GGGAATGACAGCCTTCGGGCTACACTGGCCCTGCTGGGACGCTGGAAGGAGGGGAAACCCCGTGTCTG  
CAGCCGTCCTCTGGGCTGCAGCACTGCCATGCACATGAGGTCTAGAGGCAGCACCACCGGTCCCA  
GTGGCTGCTGGGACACCACTGCCCGCCGAGGCACTGCCAAAACCGTCTGCCCTGGGTGTTGGT  
CTGGGGAAACCGGCGACCTTCCCTGGAAGCTGCCGTCCACATGGTGGAGCTGTGGCTCGGGC  
TCAGCAGCATGGCCCTCATGCACCCAGAGCGGGCCCTGCTCCAGCGGCAGTAAATTGTGAGGACCTGAA  
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ACAGGGGCTGTGGGTGGCAGGCTCCTCTCAGGTGCATGTGTCTCGGCATTTCAAGGTATGGAGCTTAC  
GCAGGGACCCGCTGGGTGCCCGCCTGGGCAACAGTAGGCAGCTGGCAGGATGGACAGCTGGACTTCCA  
GCCAGGGCGGCTGCTCTCCGAGTTCCATCTCCATCTGGCACCCAGGCCCGGCAAGCTGCGAGTGGTA  
ACTCTGGTGAACACCCATTTGTGTTACCAGGGAATCTGATGAAGATGGCAGTGCCCGCTGGGCGC  
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CGTGCCTCGACCCCTGAGAAGATGCTGTTATGGCTACTGCATTGACCTGCTGGAGCGGCTGGCCGAGGAC



CTGGCCTTTGACTTTGAGCTCTATATTGTGGGGGATGGCAAGTACGGGGCCCTGCGTGATGGACGCTGGA  
 CAGGCCTGGTGGGTGACCTGCTGGCCGGTGGGGACACATGGCCGTGACCAGCTTCAGTATCAACTCGGC  
 TCGCTCCCAGGTGGTGGATTTACCAGCCCTTTCTTCCACCAGCCTGGGCATCATGGTGCGCACGCGA  
 GATACAGCCTCACCCATTGGGGCTTTTATGTGGCCCTGCACTGGTCCATGTGGGTGGGTGTGTTTGTG  
 CCCTGCACCTCACAGCGCTTTCCTTACTCTGTACGAATGGCGGAGTCCCTACGGGCTCACGCCACGCG  
 CCGCAACCGTGGTACCGTCTTCTCTACTCTCCGCTCTCAACCTCTGCTACGCCATTCTCTCGGACGC  
 ACTGTCTCCAGTAAGACACCCAAGTGTCTTACCAGCAGTTCCTCATGAATCTCTGGGCAATCTTCTGCC  
 TGCTGGTGTATCCAGTTACACAGCCAACCTGGCAGTGTCTGTCGGGGACAAGACATTTGAGGAGCT  
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 AGCGCGGAGGCCTACATCAAGGCGAGCTTCCCCGAGATGCACGCACACATGCGTCGCCACAGCGCACCTA  
 CCACTCCACAGGAGTGGCCATGCTCACGAGCGACCCGCCAAGCTCAACGCCTTCATCATGGATAAATC  
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 GCAGGGGCAATAAGCTGCAGTATTGGCTTACACGAGCCAGAAGATCCACCGAGCCCTCAACACAGGGCC  
 ACCAGAGGGGCAACAGGAGAGGGCAGAGCAGGAGTGCAGCGGCCCAAGGAGGAGCAACCTGCAGCCGAC  
 GGTGCGGGGCGCTGGAGGCGGGTGCGCCGGCCGTGGTGAACGGGAACGGCGCGTGCCTTCTGCTGG  
 AACCTGGGGAGGCTGGCGGGGACCATCCGTGGCTCTGCTCCAATGGGCCCGGGGTGCAAGCAGAACTGCG  
 GGAGCTGGAGCTGCGCATTGAGGCTGCACGGGAGCGGCTGCGTAGTGCCTGTGCGGCGAGGGGAACTG  
 CGGGCCAGCTTGGGGATGGCACCCGGCTCAGGCCACTGCGCTGCTGCATGCGGCGCCCGCAGAGC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGTTTAA

**Protein Sequence:**

>MR219510 representing NM\_130455  
 Red=Cloning site Green=Tags(s)

MECVQTLWL SLALALARGSWVVRGHPQCGVPTRAGASVRLAALLPRAPAARARVLAALATPSPRLPHNL  
 SLELVAVASPTRDPASLARGLCQVLAPPGVVASITFPEARPELRLQLFLAAATETPVLSVLRREVRAPLG  
 APTPFHLQLDWASPLETILDVLSVLRHAHAWEDIALVLCRVRDPSGLVTLWTSRASQAPKFVLDLSQLDS  
 GNDSLRLATLALLGTLEGGTPVSAVLLGCSTAHAEVLEAAPPQPWLLGTPLPAEALPKTGLPPGVLV  
 LGETGQPSLEAAVHDMVELVARALSSMALMHPERALLPAAVNCEDLKGGSESTARTLARFLSNTSFQGR  
 TGAVVWAGSSQVHVSRLFVWLSLRDPLGAPAWATVGSWQDQQLDFQPGAAALRVPSPSGTQARPCLR  
 TLVEHPFVFTRESDEGQCPAGQLCLDPGTNDSARLDALFTALENGSVPRTLRRCCYGYCIDLLERLAED  
 LAFDFELYIVGDGKYGALRDGRWTGLVGDLLAGRAHMAVTSFSINSARSQVDFTSPPFFSTSLGIMVTR  
 DTASPIGAFMWPLHWSMWVGVFAALHLTALFLTYEWRSPYGLTPRGRNRGTVFSYSSALNLCYAILFGR  
 TVSSKTPKCPTGRFLMNLWAIFFLLVLSYANLAAMVMDKTFEELSGIHDPKLLHPSQGRFRTVWES  
 SAEAYIKASFPEMHAHMRHSAPTPHGVAMLTSDPPKLNALIMDKSLLDYEVSIDADCKLLTVGKPF  
 EGYGIGLPQNSPLTSNLSEFISRYKSSGFIDLLHDKWYKMPVCGKRFAVAVTETLQMGVYHLSGLFVLLCL  
 GLGSALLTSLGEHVYRLLVLPRIIRGNLQYWLHTSQIHRALNTGPPEGQQRERAEQESGPKKEEQPAAD  
 GAGRWRVRRVAVERRRVRFLLEPGEAGDHPWLCSNGPGVQAELELELRIEAARERLRSALLRRGEL  
 RAQLGDGTRLRPLRLLHAAPAES

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9002\\_f01.zip](https://cdn.origene.com/chromatograms/mm9002_f01.zip)

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_130455

**ORF Size:** 3009 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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.

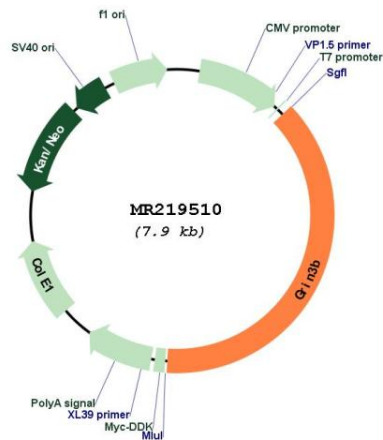
**RefSeq:** [NM\\_130455.2](#), [NP\\_569722.1](#)

**RefSeq Size:** 3281 bp

**RefSeq ORF:** 3012 bp

**Locus ID:** 170483  
**UniProt ID:** [Q91ZU9](#)  
**Cytogenetics:** 10 C1  
**MW:** 109.6 kDa  
**Gene Summary:** NMDA receptor subtype of glutamate-gated ion channels with reduced single-channel conductance, low calcium permeability and low voltage-dependent sensitivity to magnesium. Mediated by glycine.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR219510