

Product datasheet for RC217549

NR3B (GRIN3B) (NM_138690) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NR3B (GRIN3B) (NM_138690) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: NR3B
Synonyms: GluN3B; NR3B
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC217549 representing NM_138690
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGTTTGTGCGGGCGCTGTGGCTGGGCTGGCGCTGGCGCTGGGGCCGGGGTCCGCGGGGGCCACC
 CTCAGCCGTGCGGCGTCTGGCGCGCCTCGGGGCTCCGTGCGCCTGGCGCCCTCTGCCCGCGCGCC
 TCTGCGCCGCGCCGCGCCCGCGCCCTGGCCGGGCGCCCTGGCGCCGCGGCTGCCGACAACTG
 AGCTTGGAGCTGGTGGTGCCTCGCCGCGCCCCCGCCGCGACCCCGCCTCGCTGACCCGCGGCTGTGCCAGG
 CGCTGGTGCCTCCGGGCGTGGCGGCCCTGCTCGCCTTCCGAGGCTCGGCCGAGCTGCTGCAGCTGCA
 TTCTGCGGGCGGCCACCGAGACCCCGTGTAGCCTGCTGCGGCGGGAGGCGCGCGCCCTCGGA
 GCCCGAACCATTCCACCTGCAGCTGCACTGGGCCAGCCCCCTGGAGACGCTGCTGGATGTGCTGGTGG
 CGGTGCTGCAGGCGCACGCTGGGAAGACGTGGCCTGGCCTGTGCCGACTCAGGACCCCGGGCGGCT
 GGTGGCCCTCTGGACAAGCCGGGCTGGCCGGCCCCACAGCTGGTCTGGACCTAAGCCGGCGGGACAG
 GGAGATGCAGGACTGCGGGCACGCTGGCCCGATGGCGGCGCCAGTGGGGGTGAAGCACCCGTACCCG
 CGGCGTCTCTCGGCTGTGACATCGCCCGTGCCCGTGGGTGCTGGAGGCCGTACCTCCCGCCCCCA
 CTGGCTGTTGGGACACCACTGCCGCCAAGCCCTGCCACCGCGGGGCTGCCACCAGGCTGCTGGCG
 TGGGCAGTGGGCCCAGGTGCAGCCGAAGCGAGCCCTCTCCCGCCCGGTCAACTGCGGGGACCTGCA
 GCCGGCCGGGCCGAGTCCCGGGGCGCTTCTTGGCACGTTCTGGCCAACACGTCCTTCCAGGGCCGC
 ACGGGCCCGTGTGGGTGACAGGACGCTCCAGGTACACATGTCTCGGCACTTTAAGGTGTGGAGCCTTC
 GCCGGGACCCACGGGCGCCCGGCTGGGCCACGGTGGGACGCTGGCGGACGGCCAGCTGGACTTGA
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 ACGCTGTTGGAACACCCATTTGTGTTTGGCCGTGATCCAGACGAAGACGGGACGTGCCAGCGGGGACG
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 AGCGCCCGTGCCTGCGCAAGTGTGCTACGGCTACTGCATTGACTGCTGGAGCGGCTGGCGGAGGAC



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ACGCCCTTCGACTTCGAGCTGTACCTCGTGGGTGACGGCAAGTACGGCGCCTGCGGGACGGCCGCTGGA
 CCGGCCTGGTCGGGGACCTGCTGGCCGGCCGGCCACATGGCGGTACCAGCTTCAGTATCAACTCCGC
 CCGCTCACAGGTGGTGGACTTACCAGCCCTTCTTCCACCAGCTGGGCATCATGGTGGGGACGG
 GACACGGCCTCACCCATCGGTGCCTTTATGTGGCCCTGCACTGGTCCACGTGGTGGGGCTTTTGGG
 CCCTGCACCTCACCGCCTTCTCCTCACGTGTACGAGTGGCGTAGCCCTACGGCTCACGCCACGTGG
 CCGCAACCGCAGCACCGTCTTCTCTACTCTCAGCCCTCAACCTGTGCTACGCCATCCTTTCAGACGC
 ACCGTGTCCAGCAAGACGCCCAAGTCCCCACGGGCCCTGCTCATGAACCTCTGGCCATCTTCTGCC
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 GTCGGGGATCCACGACCCCAAGCTGCACACCCGGCGCAGGGCTTCCGCTTCGGCACCGTGTGGGAGAGC
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 CCACGCCCCGGCGTCCGATGCTCACGAGCGACCCCCCAAGCTCAACGCCTTCATCATGGACAAGTC
 GCTCCTGGACTACGAGGTCTCCATCGACGCCGACTGCAAAGTGTGACCGTGGGAAAGCCCTTCGCCATT
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 AGAGGGCCCGTCTGGCTGTGCTCCTACGGCCGCCCGCCCGCGCAAGGCCACGGGGCCCCCAGCCC
 GGGGAGCTGCAGGAGCTGGAGCGCCGATCGAAGTCCGCGGTGAGCGGCTCCGCCAGGCCCTGGTGGCG
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 GCCCCCCGCGGAGGCCACCACACTCTGGCCGACCGGGAGCCAGGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC217549 representing NM_138690

Red=Cloning site Green=Tags(s)

MEFVRALWLGALALGPGSAGGHPQPCGVLARLGGSVRLGALLPRAPLARARARAALARAALAPRLPHNL
 SLELVVAAPPARDPASLTRLGCQALVPPGVAALLAFPEARPELLQLHFLAAATETPVL SLLRREARAPLG
 APNPFHLQLHWASPLETLLDVLVAVLQAHAWEDVGLALCRTQDPGGLVALWTSRAGRPPQLVLDL SRRDT
 GDAGLRARLAPMAAPVGGGEAPVPAAVLLGCDIARARRVLEAVPPGPHWLLGTPLPPKALPTAGLPPGLLA
 LGEVARPPLEAAIHDIVQLVARALGSAAQVQPKRALLPAPVNCGDLQPAGPESGRFLARFLANTSFOGR
 TGPVWVTGSSQVHMSRHFVWVSLRRDPRGAPAWATVGSWRDGLDLEPGGASARPPPPQGAQVWPKL RVV
 TLLLEHPFVFARDPDEDGQCPAGQLCLDPGTNDSATLDALFAALANGSAPRALRKCCYGYCIDLLERLAED
 TPFDFELYLVDGKYGALRDGRWTGLVGDLLAGRAHMAVTSFSINSARSQVVDFTSPFFSTSLGIMVRAR
 DTASPIGAFMWPLHWSTWLVGF AALHLTALFLTVYEWRSYGLTPRGRNRSTVFSYSSALNLCYAILFRR
 TVSSKTPKCPTGRLLMNLWAI FCLLVLSYNTANLAAVMVGDKTFEELSGIHDPKLHHPAQGRFGTVWES
 SAEAYIKKSFPDMHAHMRRHSAPTTPRGVAML TSDPPKLNAFIMDKSLLDYEVSIDADCKLLTVGKPF AI
 EGYGIGLPQNSPLT SNLSEFISRYKSSGFIDLLHDKWYKMVPCGKR VFAVTETLQMSIYHFAGL FVLLCL
 GLGSALLSSLGEHAFRLALPRIRKGSRLQYWLHTSQIHRALNTEPEGSKEETA EAEPSSGPEVEQQQQ
 QQDQPTAPEGWKRARRAVDKERRVRFLLLEPAVVVAPEADAEAEAAPREGPVWLC SYGRPPAARPTGAPQP
 GELQELERRIEVARERLRQALVRRGQLLAQLGDSARHRPRRLLQARAAPAEAPPHSGRPGSQE

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8012_c01.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_138690

ORF Size: 3129 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_138690.3](#)

RefSeq Size: 3270 bp

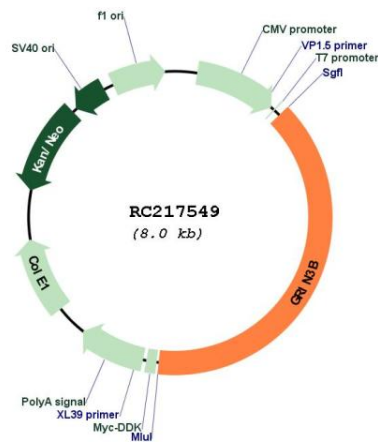
RefSeq ORF: 3132 bp

Locus ID: 116444

UniProt ID: [O60391](#)

Cytogenetics: 19p13.3
Protein Families: Druggable Genome, Ion Channels: Glutamate Receptors, Transmembrane
Protein Pathways: Neuroactive ligand-receptor interaction
MW: 112.8 kDa
Gene Summary: The protein encoded by this gene is a subunit of an N-methyl-D-aspartate (NMDA) receptor. The encoded protein is found primarily in motor neurons, where it forms a heterotetramer with GRIN1 to create an excitatory glycine receptor. Variations in this gene have been proposed to be linked to schizophrenia. [provided by RefSeq, Nov 2015]

Product images:



Circular map for RC217549