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Product datasheet for SC337610

NMDAR2C (GRIN2C) (NM_001278553) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NMDAR2C (GRIN2C) (NM_001278553) Human Untagged Clone
Tag:	Tag Free
Symbol:	GRIN2C
Synonyms:	GluN2C; NMDAR2C; NR2C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>NCBI ORF sequence for NM_001278553, the custom clone sequence may differ by one or more nucleotides

ATGGGTGGGGCCCTGGGGCCGGCCCTGTTGCTCACCTCGCTCTTCGGTGCCTGGGCAGGGCTGGGTCCGG
GGCAGGGCGAGCAGGGCATGACGGTGGCCGTGGTGTTTAGCAGCTCAGGGCCGCCCCAGGCCCAGTTCCG
TGCCCGCCTCACCCCCCAGAGCTTCCTGGACCTACCCCTGGAGATCCAGCCGCTCACAGTTGGGGTCAAC
ACCACCAACCCCAGCAGCCTCCTCACCCAGATCTGCGGCCTCCTGGGTGCTGCCCACGTCCACGGCATTG
TCTTTGAGGACAACGTGGACACCGAGGCGGTGGCCCAGATCCTTGACTTCATCTCCTCCCAGACCCATGT
GCCCATCCTCAGCATCAGCGGAGGCTCTGCTGTGGTCCTCACCCCCAAGGAGCCGGGCTCCGCCTTCCTG
CAGCTGGGCGTGTCCCTGGAGCAGCAGCTGCAGGTGCTGTTCAAGGTGCTGGAAGAGTACGACTGGAGCG
CCTTCGCCGTCATCACCAGCCTGCACCCGGGCCACGCGCTCTTCCTGGAGGGCGTGCGCGCCGTCGCCGA
CGCCAGCCACGTGAGTTGGCGGCTGCTGGACGTGGTCACGCTGGAGCTGGGCCCGGGAGGGCCGCGCGCG
CGCACGCAGCGCCTGCTGCGCCAGCTCGACGCGCCCGTGTTTGTGGCCTACTGCTCGCGCGAGGAGGCCG
AGGTGCTCTTCGCCGAGGCGGCGCAGGCCGGTCTGGTGGGGCCCGGCCACGTGTGGCTGGTGCCCAACCT
GGCGCTGGGCAGCACCGATGCGCCCCCCGCCACCTTCCCCGTGGGCCTCATCAGCGTCGTCACCGAGAGC
TGGCGCCTCAGCCTGCGCCAGAAGGTGCGCGACGGCGTGGCCATTCTGGCCCTGGGCGCCCACAGCTACT
GGCGCCAGCATGGAACCCTGCCAGCCCCGGCCGGGGACTGCCGTGTTCACCCTGGGCCCGTCAGCCCTGC
CCGGGAGGCCTTCTACAGGCACCTACTGAATGTCACCTGGGAGGGCCGAGACTTCTCCTTCAGCCCTGGT
GGGTACCTGGTCCAGCCCACCATGGTGGTGATCGCCCTCAACCGGCACCGCCTCTGGGAGATGGTGGGGC
GCTGGGAGCATGGCGTCCTATACATGAAGTACCCCGTGTGGCCTCGCTACAGTGCCTCTCTGCAGCCTGT
GGTGGACAGTCGGCACCTGACGGTGGCCACGCTGGAAGAGCGGCCCTTTGTCATCGTGGAGAGCCCTGAC
CCTGGCACAGGAGGCTGTGTCCCCAACACCGTGCCCTGCCGCAGGCAGAGCAACCACACCTTCAGCAGCG
GGGACGTGGCCCCCTACACCAAGCTCTGCTGTAAGGGATTCTGCATCGACATCCTCAAGAAGCTGGCCAG
AGTGGTCAAATTCTCCTACGACCTGTACCTGGTGACCAACGGCAAGCATGGCAAGCGGGTGCGCGGCGTA
TGGAACGGCATGATTGGGGAGGTGTACTACAAGCGGGCAGACATGGCCATCGGCTCCCTCACCATCAATG
AGGAACGCTCCGAGATCGTAGACTTCTCTGTACCCTTTGTGGAGACGGGCATCAGTGTGATGGTGGCTCG
CAGCAATGGCACCGTCTCCCCCTCGGCCTTCTTGGAGCCATATAGCCCTGCAGTGTGGGTGATGATGTTT
GTCATGTGCCTCACTGTGGTGGCCATCACCGTCTTCATGTTCGAGTACTTCAGCCCTGTCAGCTACAACC
AGAACCTCACCAGAGGCAAGAAGTCCGGGGGGCCCAGCTTTCACTATCGGCAAGTCCGTGTGGCTGCTGTG
GGCGCTGGTCTTCAACAACTCAGTGCCCATCGAGAACCCGCGGGGCACCACCAGCAAGATCATGGTTCTG
GTCTGGGCCTTCTTTGCTGTCATCTTCCTCGCCAGCTACACGGCCAACCTGGCCGCCTTCATGATCCAAG
AGCAATACATCGACACTGTGTCGGGCCTCAGTGACAAGAAGTTTCAGCGGCCTCAAGATCAGTACCCACC
TTTCCGCTTCGGCACGGTGCCCAACGGCAGCACGGAGCGGAACATCCGCAGTAACTACCGTGACATGCAC
ACCCACATGGTCAAGTTCAACCAGCGCTCGGTGGAGGACGCGCTCACCAGCCTCAAGATGGGGAAGCTGG
ATGCCTTCATCTATGATGCTGCTGTCCTCAACTACATGGCAGGCAAGGACGAGGGCTGCAAGCTGGTCAC
CATTGGGTCTGGCAAGGTCTTTGCTACCACTGGCTACGGCATCGCCATGCAGAAGGACTCCCACTGGAAG
CGGGCCATAGACCTGGCGCTCTTGCAGTTCCTGGGGGACGGAGAGACACAGAAACTGGAGACAGTGTGGC
TCTCAGGGATCTGCCAGAATGAGAAGAACGAGGTGATGAGCAGCAAGCTGGACATCGACAACATGGCAGG
CGTCTTCTACATGCTGCTGGTGGCCATGGGGCTGGCCCTGCTGGTCTTCGCCTGGGAGCACCTGGTCTAC
TGGAAGCTGCGCCACTCGGTGCCCAACTCATCCCAGCTGGACTTCCTGCTGGCTTTCAGCAGGGTGGGTG
CCCACCCCTCCCCACACAGGCCAAAGTTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001278553

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_001278553.1, NP_001265482.1
RefSeq Size:	3269 bp
RefSeq ORF:	2622 bp
Locus ID:	2905
Cytogenetics:	17q25.1
Protein Families:	Druggable Genome, Ion Channels: Glutamate Receptors, Transmembrane
Protein Pathways:	Alzheimer's disease, Amyotrophic lateral sclerosis (ALS), Calcium signaling pathway, Long-term potentiation, Neuroactive ligand-receptor interaction
Gene Summary:	This gene encodes a subunit of the N-methyl-D-aspartate (NMDA) receptor, which is a subtype of ionotropic glutamate receptor. NMDA receptors are found in the central nervous system, are permeable to cations and have an important role in physiological processes such as learning, memory, and synaptic development. The receptor is a tetramer of different subunits (typically heterodimer of subunit 1 with one or more of subunits 2A-D), forming a channel that is permeable to calcium, potassium, and sodium, and whose properties are determined by subunit composition. Alterations in the subunit composition of the receptor are associated with pathophysiological conditions such as Parkinson's disease, Alzheimer's disease, depression, and schizophrenia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2013] Transcript Variant: This variant (2) differs in the 5' UTR, includes an alternate terminal 3' exon, and its transcription extends past a splice site that is used in variant 1, resulting in a novel 3' coding region and 3' UTR compared to variant 1. The encoded isoform (2) has a distinct and shorter C-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.