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Product datasheet for TR312609

NMDAR2B (GRIN2B) Human shRNA Plasmid Kit (Locus ID 2904)

Product data:

Product Type:	shRNA Plasmids
Product Name:	NMDAR2B (GRIN2B) Human shRNA Plasmid Kit (Locus ID 2904)
Locus ID:	2904
Synonyms:	DEE27; EIEE27; GluN2B; hNR3; MRD6; NMDAR2B; NR2B; NR3
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	GRIN2B - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 2904). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<u>NM 000834</u> , <u>NM 000834.1</u> , <u>NM 000834.2</u> , <u>NM 000834.3</u> , <u>BC113618</u> , <u>BC113620</u> , <u>NM 000834.5</u>
UniProt ID:	<u>Q13224</u>
~	This gape encodes a member of the N methyl D aspartate (NMDA) recenter family within the
Summary:	This gene encodes a member of the N-methyl-D-aspartate (NMDA) receptor family within the ionotropic glutamate receptor superfamily. The encoded protein is a subunit of the NMDA receptor ion channel which acts as an agonist binding site for glutamate. The NMDA receptors mediate a slow calcium-permeable component of excitatory synaptic transmission in the central nervous system. The NMDA receptors are heterotetramers of seven genetically encoded, differentially expressed subunits including NR1 (GRIN1), NR2 (GRIN2A, GRIN2B, GRIN2C, or GRIN2D) and NR3 (GRIN3A or GRIN3B). The early expression of this gene in development suggests a role in brain development, circuit formation, synaptic plasticity, and cellular migration and differentiation. Naturally occurring mutations within this gene are associated with neurodevelopmental disorders including autism spectrum disorder, attention deficit hyperactivity disorder, epilepsy, and schizophrenia. [provided by RefSeq, Aug 2017]



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STATES ORIGENE NMDAR2B (GRIN2B) Human shRNA Plasmid Kit (Locus ID 2904) – TR312609

Performance Guaranteed: OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).

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