

Product datasheet for **TL312607V**

Glutamate receptor ionotropic, NMDA 2D (GRIN2D) Human shRNA Lentiviral Particle (Locus ID 2906)

Product data:

Product Type:	shRNA Lentiviral Particles
Product Name:	Glutamate receptor ionotropic, NMDA 2D (GRIN2D) Human shRNA Lentiviral Particle (Locus ID 2906)
Locus ID:	2906
Synonyms:	DEE46; EB11; EIEE46; GluN2D; NMDAR2D; NR2D
Vector:	pGFP-C-shLenti (TR30023)
Format:	Lentiviral particles
Components:	GRIN2D - Human shRNA lentiviral particles (4 unique 29mer target-specific shRNA, 1 scramble control), 0.5 ml each, >10 ⁷ TU/ml.
RefSeq:	NM_000836 , NM_000836.1 , NM_000836.2 , BC169223 , NM_000836.3
UniProt ID:	O15399
Summary:	N-methyl-D-aspartate (NMDA) receptors are a class of ionotropic glutamate receptors. NMDA channel has been shown to be involved in long-term potentiation, an activity-dependent increase in the efficiency of synaptic transmission thought to underlie certain kinds of memory and learning. NMDA receptor channels are heteromers composed of the key receptor subunit NMDAR1 (GRIN1) and 1 or more of the 4 NMDAR2 subunits: NMDAR2A (GRIN2A), NMDAR2B (GRIN2B), NMDAR2C (GRIN2C), and NMDAR2D (GRIN2D). [provided by RefSeq, Mar 2010]
shRNA Design:	These shRNA constructs were designed against multiple splice variants at this gene locus. To be certain that your variant of interest is targeted, please contact techsupport@origene.com . If you need a special design or shRNA sequence, please utilize our custom shRNA service .

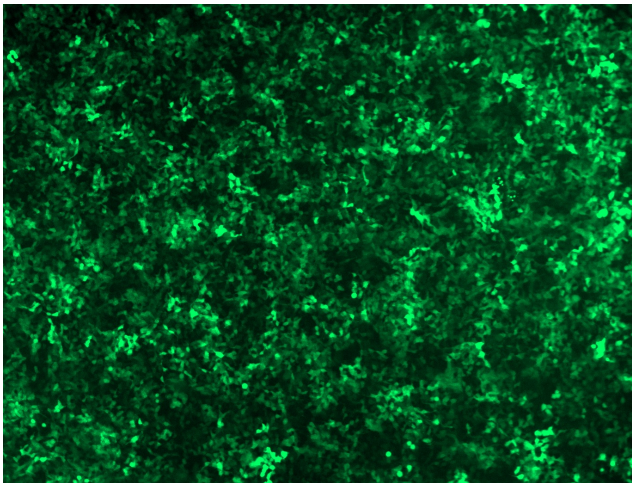


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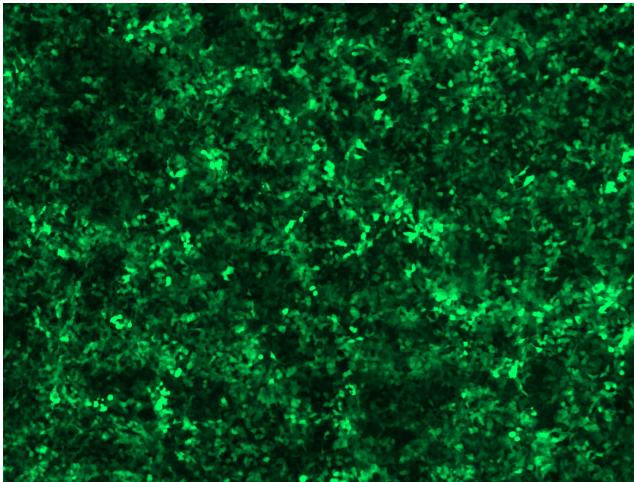
**Performance
Guaranteed:**

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.

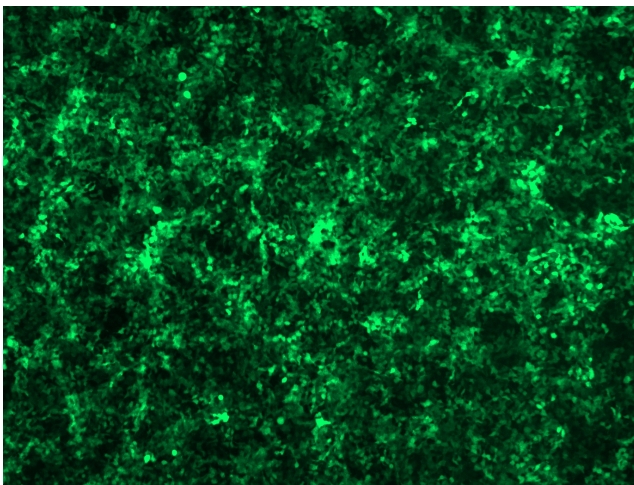
For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating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

Product images:

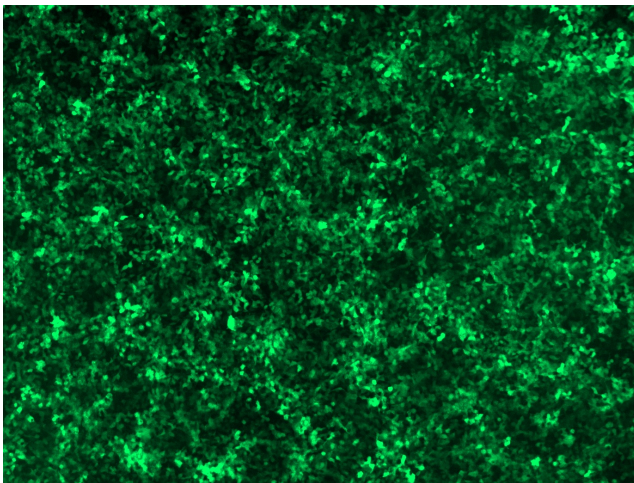
GFP signal was observed under microscope at 48 hours after transduction of TL312607A virus into HEK293 cells. TL312607A virus was prepared using lenti-shRNA TL312607A and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of TL312607B virus into HEK293 cells. TL312607B virus was prepared using lenti-shRNA TL312607B and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL312607C] virus into HEK293 cells. [TL312607C] virus was prepared using lenti-shRNA [TL312607C] and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL312607D] virus into HEK293 cells. [TL312607D] virus was prepared using lenti-shRNA [TL312607D] and [TR30037] packaging kit.