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Product datasheet for TL309708V

67kDa Laminin Receptor (RPSA) Human shRNA Lentiviral Particle (Locus ID 3921)

Product data:

Product Type:	shRNA Lentiviral Particles
Product Name:	67kDa Laminin Receptor (RPSA) Human shRNA Lentiviral Particle (Locus ID 3921)
Locus ID:	3921
Synonyms:	37LRP; 67LR; ICAS; LAMBR; lamR; LAMR1; LBP; LBP/p40; LRP; LRP/LR; NEM/1CHD4; p40; SA
Vector:	pGFP-C-shLenti (TR30023)
Format:	Lentiviral particles
Components:	RPSA - Human shRNA lentiviral particles (4 unique 29mer target-specific shRNA, 1 scramble control), 0.5 ml each, >10^7 TU/ml.
RefSeq:	NM_001012321, NM_001304288, NM_002295, NM_002295.1, NM_002295.2, NM_002295.3, NM_002295.4, NM_002295.5, NM_001012321.1, BC005391, BC005391.1, BC066941, BC066941.1, BC071693, BC008867, BC010418, BC013827, BC018867, BC034537, BC050688, BC053370, BC062714, BC068062, BC070263, BC071968, BC071969, BC071970, BC073863, BC107567, BM999786, NM_002295.6
UniProt ID:	P08865
Summary:	Laminins, a family of extracellular matrix glycoproteins, are the major noncollagenous constituent of basement membranes. They have been implicated in a wide variety of biological processes including cell adhesion, differentiation, migration, signaling, neurite outgrowth and metastasis. Many of the effects of laminin are mediated through interactions with cell surface receptors. These receptors include members of the integrin family, as well as non-integrin laminin-binding proteins. This gene encodes a high-affinity, non-integrin family, laminin receptor 1. This receptor has been variously called 67 kD laminin receptor, 37 kD laminin receptor precursor (37LRP) and p40 ribosome-associated protein. The amino acid sequence of laminin receptor 1 is highly conserved through evolution, suggesting a key biological function. It has been observed that the level of the laminin receptor transcript is higher in colon carcinoma tissue and lung cancer cell line than their normal counterparts. Also, there is a correlation between the upregulation of this polypeptide in cancer cells and their invasive and metastatic phenotype. Multiple copies of this gene exist, however, most of them are pseudogenes thought to have arisen from retropositional events. Two alternatively spliced transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]

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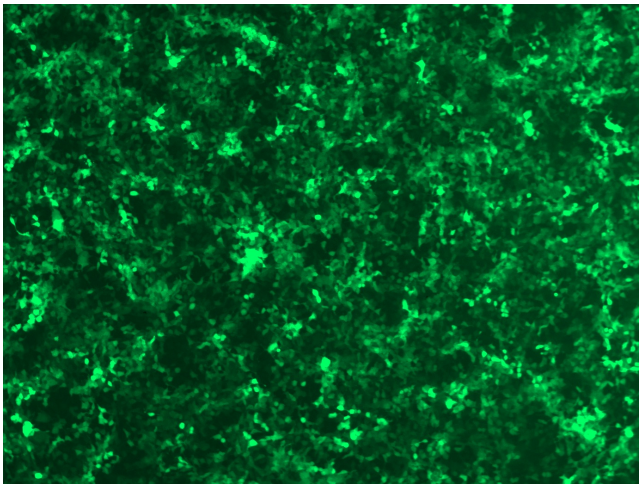
shRNA Design: These shRNA constructs were designed against multiple splice variants at this gene locus. To be certain that your variant of interest is targeted, please contact techsupport@origene.com. If you need a special design or shRNA sequence, please utilize our custom shRNA service.

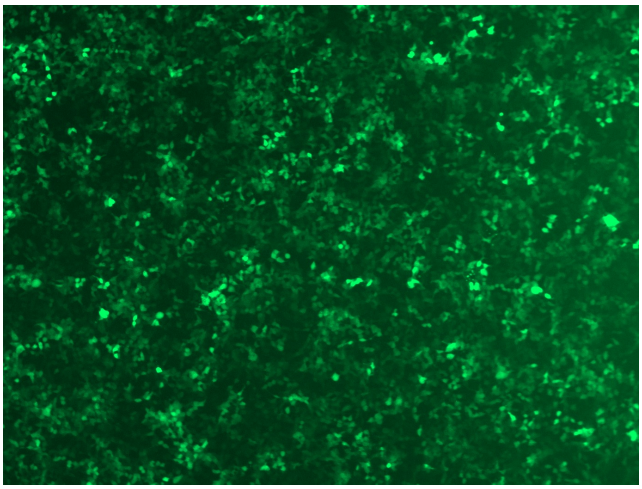
Performance Guaranteed: OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency 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).

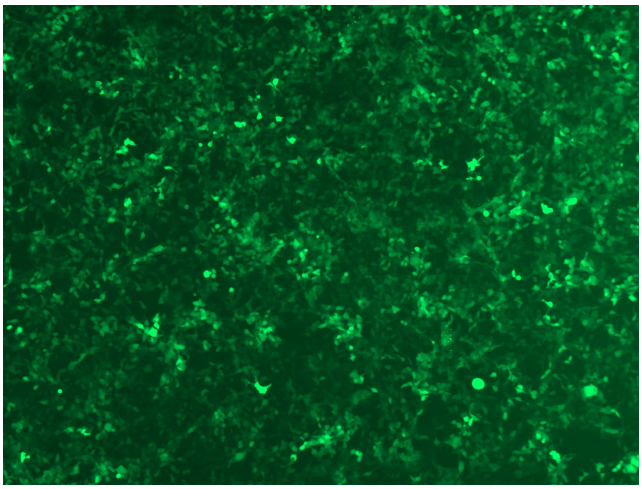
Product images:



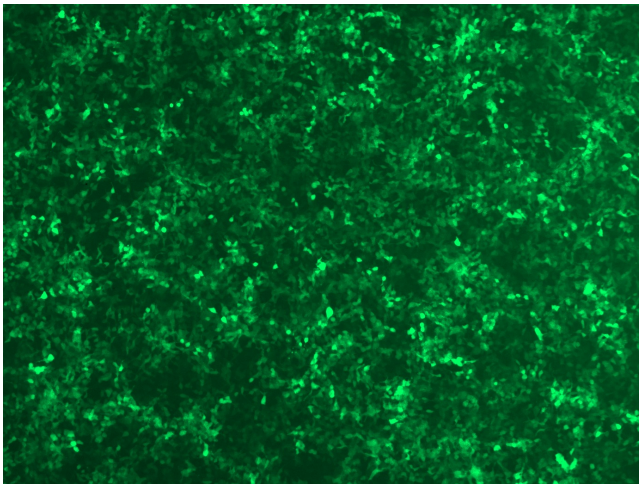
GFP signal was observed under microscope at 48 hours after transduction of TL309708A virus into HEK293 cells. TL309708A virus was prepared using lenti-shRNA TL309708A and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of TL309708B virus into HEK293 cells. TL309708B virus was prepared using lenti-shRNA TL309708B and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL309708C] virus into HEK293 cells. [TL309708C] virus was prepared using lenti-shRNA [TL309708C] and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL309708D] virus into HEK293 cells. [TL309708D] virus was prepared using lenti-shRNA [TL309708D] and [TR30037] packaging kit.