Product datasheet for TL310437V

PICALM Human shRNA Lentiviral Particle (Locus ID 8301)

Product data:

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Product Type:	shRNA Lentiviral Particles
Product Name:	PICALM Human shRNA Lentiviral Particle (Locus ID 8301)
Locus ID:	8301
Synonyms:	CALM; CLTH; LAP
Vector:	pGFP-C-shLenti (TR30023)
Format:	Lentiviral particles
Components:	PICALM - Human shRNA lentiviral particles (4 unique 29mer target-specific shRNA, 1 scramble control), 0.5 ml each, >10^7 TU/ml.
RefSeq:	NM_001008660, NM_001206946, NM_001206947, NM_007166, NM_001008660.1, NM_001008660.2, NM_007166.1, NM_007166.2, NM_007166.3, NM_001206947.1, NM_001206946.1, BC064357, BC064357.1, BC048259, BC073961, NM_001206947.2, NM_001008660.3, NM_007166.4, NM_001206946.2
UniProt ID:	Q13492
Summary:	This gene encodes a clathrin assembly protein, which recruits clathrin and adaptor protein complex 2 (AP2) to cell membranes at sites of coated-pit formation and clathrin-vesicle assembly. The protein may be required to determine the amount of membrane to be recycled, possibly by regulating the size of the clathrin cage. The protein is involved in AP2-dependent clathrin-mediated endocytosis at the neuromuscular junction. A chromosomal translocation t(10;11)(p13;q14) leading to the fusion of this gene and the MLLT10 gene is found in acute lymphoblastic leukemia, acute myeloid leukemia and malignant lymphomas. The polymorphisms of this gene are associated with the risk of Alzheimer disease. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2011]
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).
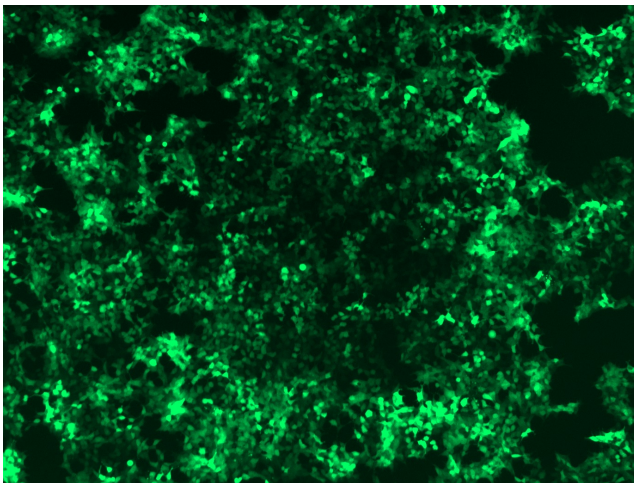
Product images:
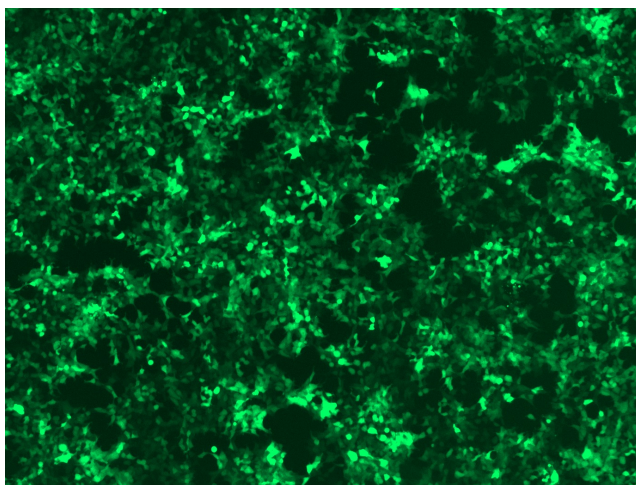
GFP signal was observed under microscope at 48 hours after transduction of TL310437A virus into HEK293 cells. TL310437A virus was prepared using lenti-shRNA TL310437A and [TR30037] packaging kit.
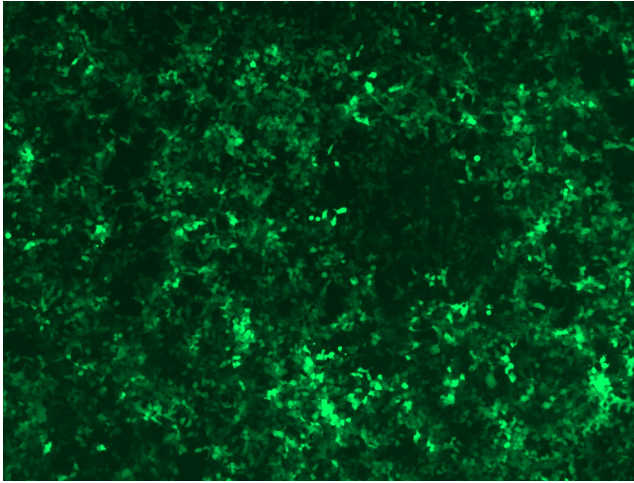
GFP signal was observed under microscope at 48 hours after transduction of TL310437B virus into HEK293 cells. TL310437B virus was prepared using lenti-shRNA TL310437B and [TR30037] packaging kit.
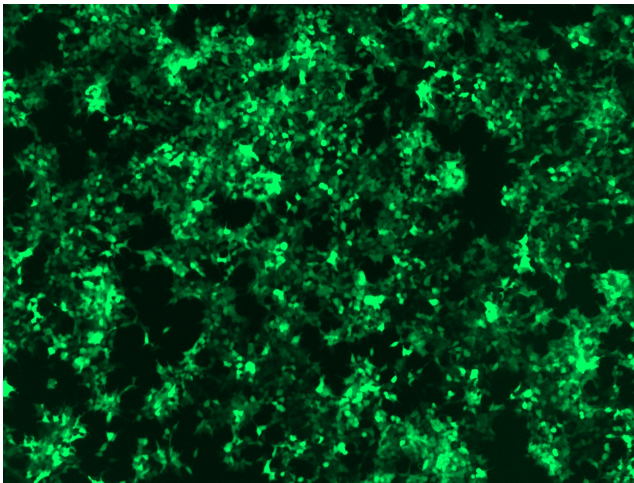
GFP signal was observed under microscope at 48 hours after transduction of [TL310437C] virus into HEK293 cells. [TL310437C] virus was prepared using lenti-shRNA [TL310437C] and [TR30037] packaging kit.

GFP signal was observed under microscope at 48 hours after transduction of [TL310437D] virus into HEK293 cells. [TL310437D] virus was prepared using lenti-shRNA [TL310437D] and [TR30037] packaging kit.