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Product datasheet for TL310110

PSMB5 Human shRNA Plasmid Kit (Locus ID 5693)

Product data:

Product Type:	shRNA Plasmids
Product Name:	PSMB5 Human shRNA Plasmid Kit (Locus ID 5693)
Locus ID:	5693
Synonyms:	LMPX; MB1; X
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	PSMB5 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 5693). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	NM_001130725, NM_001144932, NM_002797, NM_002797.1, NM_002797.2, NM_002797.3, NM_002797.4, NM_001130725.1, NM_001144932.1, NM_001144932.2, BC057840, BC057840.1, BC107720, NM_002797.5
UniProt ID:	P28074
Summary:	The proteasome is a multicatalytic proteinase complex with a highly ordered ring-shaped 20S core structure. The core structure is composed of 4 rings of 28 non-identical subunits; 2 rings are composed of 7 alpha subunits and 2 rings are composed of 7 beta subunits. Proteasomes are distributed throughout eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway. An essential function of a modified proteasome, the immunoproteasome, is the processing of class I MHC peptides. This gene encodes a member of the proteasome B-type family, also known as the T1B family, that is a 20S core beta subunit in the proteasome. This catalytic subunit is not present in the immunoproteasome and is replaced by catalytic subunit 3i (proteasome beta 8 subunit). Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2009]
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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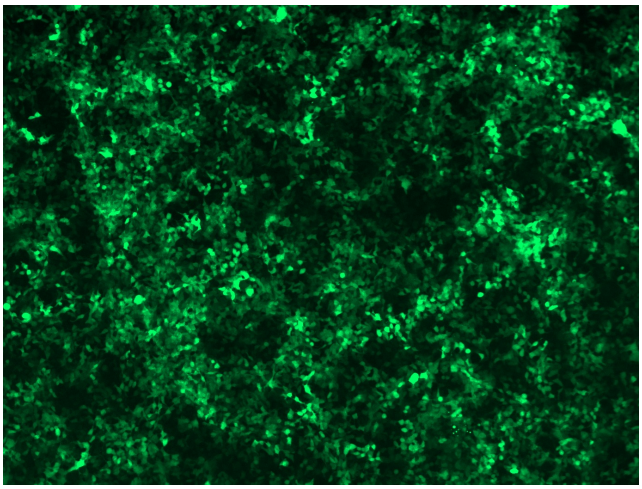
Performance Guaranteed:

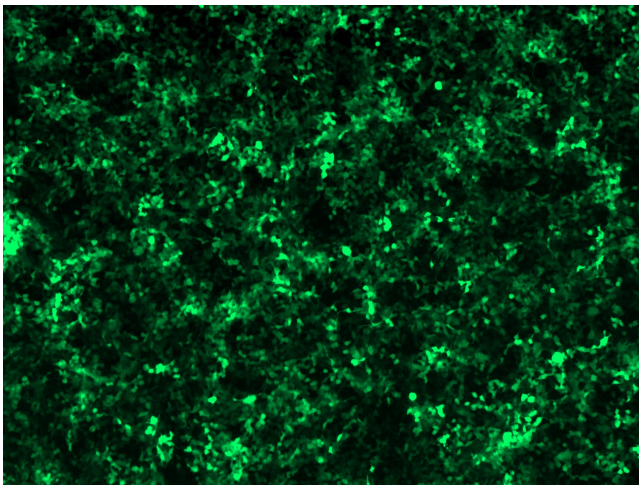
OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. 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).

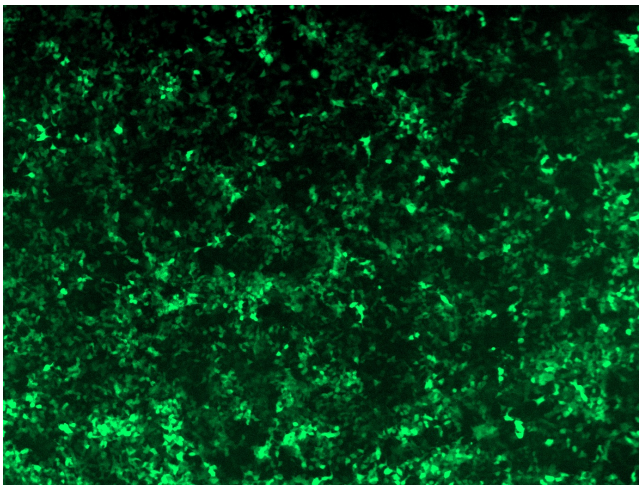
Product images:



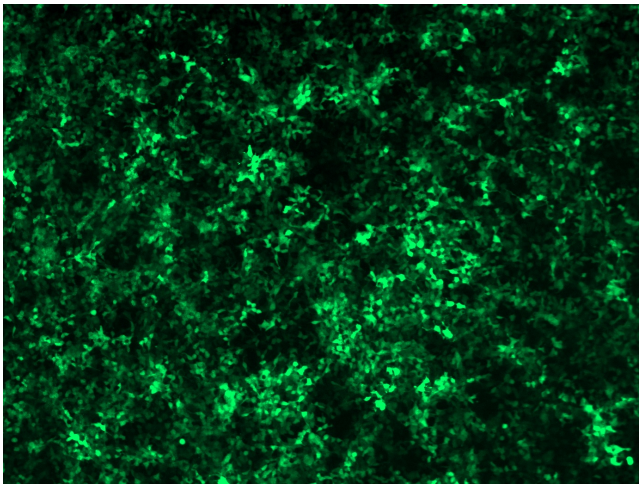
GFP signal was observed under microscope at 48 hours after transduction of TL310110A virus into HEK293 cells. TL310110A virus was prepared using lenti-shRNA TL310110A and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of TL310110B virus into HEK293 cells. TL310110B virus was prepared using lenti-shRNA TL310110B and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL310110C] virus into HEK293 cells. [TL310110C] virus was prepared using lenti-shRNA [TL310110C] and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL310110D] virus into HEK293 cells. [TL310110D] virus was prepared using lenti-shRNA [TL310110D] and [TR30037] packaging kit.