

Product datasheet for **TR311478**

MICA Human shRNA Plasmid Kit (Locus ID 100507436)

Product data:

Product Type:	shRNA Plasmids
Product Name:	MICA Human shRNA Plasmid Kit (Locus ID 100507436)
Locus ID:	100507436
Synonyms:	MIC-A; PERB11.1
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	MICA - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 100507436). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	NM_000247 , NM_001177519 , NM_001289152 , NM_001289153 , NM_001289154 , NR_036523 , NR_036524 , NM_000247.1 , NM_000247.2 , NM_001177519.1 , NM_001177519.2 , NM_001289154.1 , NM_001289152.1 , NM_001289153.1 , BC016929 , BM552351 , BM991681 , NM_001289154.2 , NM_001177519.3 , NM_001289153.2 , NM_001289152.2 , NM_000247.3
UniProt ID:	Q29983
Summary:	This gene encodes the highly polymorphic major histocompatibility complex class I chain-related protein A. The protein product is expressed on the cell surface, although unlike canonical class I molecules it does not seem to associate with beta-2-microglobulin. It is a ligand for the NKG2-D type II integral membrane protein receptor. The protein functions as a stress-induced antigen that is broadly recognized by intestinal epithelial gamma delta T cells. Variations in this gene have been associated with susceptibility to psoriasis 1 and psoriatic arthritis, and the shedding of MICA-related antibodies and ligands is involved in the progression from monoclonal gammopathy of undetermined significance to multiple myeloma. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Jan 2014]
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 .



[View online »](#)

**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).