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Product datasheet for TR307932

AKR7L Human shRNA Plasmid Kit (Locus ID 246181)

Product data:

Product Type:	shRNA Plasmids
Product Name:	AKR7L Human shRNA Plasmid Kit (Locus ID 246181)
Locus ID:	246181
Synonyms:	AFAR3; AKR7A4
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	AKR7L - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 246181). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	NM_001145289, NM_201252, NR_040288, NR_040289, NM_001145289.1, NM_201252.1, NM_201252.3, BC035351, BC035351.1
UniProt ID:	Q8NHP1
Summary:	This gene is one of three aldo-keto reductase genes that are present in a cluster on the p arm of chromosome 1. The encoded proteins are involved in the reduction of the dialdehyde protein-binding form of aflatoxin B1 (AFB1) to the non-binding AFB1 dialcohol. It has been speculated that this family member encodes a selenoprotein, which includes a selenocysteine (Sec) residue in lieu of a UGA translational termination codon. However, there is no evidence that such a protein is produced in vivo. The alternative interpretation is that this family member is a segregating pseudogene, where some individuals have an allele that encodes a functional enzyme, while other individuals have an allele encoding a protein that is predicted to be non-functional. [provided by RefSeq, Feb 2017]
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).