Product datasheet for TR301435

SPATA13 Human shRNA Plasmid Kit (Locus ID 221178)

Product data:

Product Type:	shRNA Plasmids
Product Name:	SPATA13 Human shRNA Plasmid Kit (Locus ID 221178)
Locus ID:	221178
Synonyms:	ARHGEF29; ASEF2
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	SPATA13 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 221178). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	NM_001166271, NM_001286792, NM_001286793, NM_001286794, NM_001286795, NM_153023, NR_104595, NM_153023.1, NM_153023.2, NM_153023.3, NM_001166271.1, NM_001166271.2, NM_001286795.1, NM_001286794.1, NM_001286792.1, BC109290, BC043582, BC109291, NM_001286795.2, NM_001286792.2, NM_001166271.3, NM_001286793.2, NM_153023.4
UniProt ID:	Q96N96
Summary:	Acts as guanine nucleotide exchange factor (GEF) for RHOA, RAC1 and CDC42 GTPases. Regulates cell migration and adhesion assembly and disassembly through a RAC1, PI3K, RHOA and AKT1-dependent mechanism. Increases both RAC1 and CDC42 activity, but decreases the amount of active RHOA. Required for MMP9 up-regulation via the JNK signaling pathway in colorectal tumor cells. Involved in tumor angiogenesis and may play a role in intestinal adenoma formation and tumor progression.[UniProtKB/Swiss-Prot Function]
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).