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Product datasheet for TR301307

SUMF2 Human shRNA Plasmid Kit (Locus ID 25870)

Product data:

Product Type:	shRNA Plasmids
Product Name:	SUMF2 Human shRNA Plasmid Kit (Locus ID 25870)
Locus ID:	25870
Synonyms:	pFGE
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	SUMF2 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 25870). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	BC008091, NM_001042468, NM_001042469, NM_001042470, NM_001130069, NM_001130070, NM_001146333, NM_015411, NM_015411.1, NM_015411.2, NM_001042470.1, NM_001042468.1, NM_001042469.1, NM_001130069.1, NM_001130069.2, NM_001146333.1, NM_001130070.1, BC084539, BC000224, BC006159, BC015600, BC065222, BC111092, BM423367, NM_001366647, NM_001366648, NM_001366649
UniProt ID:	Q8NBJ7
Summary:	The catalytic sites of sulfatases are only active if they contain a unique amino acid, C-alpha-formylglycine (FGly). The FGly residue is posttranslationally generated from a cysteine by enzymes with FGly-generating activity. The gene described in this record is a member of the sulfatase-modifying factor family and encodes a protein with a DUF323 domain that localizes to the lumen of the endoplasmic reticulum. This protein has low levels of FGly-generating activity but can heterodimerize with another family member - a protein with high levels of FGly-generating activity. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]
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).