

Product datasheet for **TR316806**

Small EDRK rich factor 1 (SERF1A) Human shRNA Plasmid Kit (Locus ID 8293)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Small EDRK rich factor 1 (SERF1A) Human shRNA Plasmid Kit (Locus ID 8293)
Locus ID:	8293
Synonyms:	4F5; FAM2A; H4F5; SERF1; SMAM1
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	SERF1A - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 8293). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	NM_021967 , NM_022968 , NM_021967.1 , NM_021967.2 , NM_022968.1 , BC035932 , BC035932.1 , BC021174 , BC021174.1 , BC093880 , BC093882 , NM_021967.3 , NM_022968.2
UniProt ID:	O75920
Summary:	This gene is part of a 500 kb inverted duplication on chromosome 5q13. This duplicated region contains at least four genes and repetitive elements which make it prone to rearrangements and deletions. The repetitiveness and complexity of the sequence have also caused difficulty in determining the organization of this genomic region. The duplication region includes both a telomeric and a centromeric copy of this gene. Deletions of this gene, the telomeric copy, often accompany deletions of the neighboring SMN1 gene in spinal muscular atrophy (SMA) patients, and so it is thought that this gene may be a modifier of the SMA phenotype. The function of this protein is not known; however, it bears low-level homology with the RNA-binding domain of matrin-cyclophilin, a protein which colocalizes with small nuclear ribonucleoproteins (snRNPs) and the SMN1 gene product. Alternatively spliced transcripts have been documented but it is unclear whether alternative splicing occurs for both the centromeric and telomeric copies of the gene. [provided by RefSeq, Jul 2008]



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- 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](#).
- 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).