

## Product datasheet for **TL309661**

### SAFB Human shRNA Plasmid Kit (Locus ID 6294)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	SAFB Human shRNA Plasmid Kit (Locus ID 6294)
Locus ID:	6294
Synonyms:	HAP; HET; SAB-B1; SAF-B; SAF-B1; SAFB1
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	SAFB - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 6294). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	<a href="#">NM_001201338</a> , <a href="#">NM_001201339</a> , <a href="#">NM_001201340</a> , <a href="#">NM_001320571</a> , <a href="#">NM_001320572</a> , <a href="#">NM_002967</a> , <a href="#">NR_037699</a> , <a href="#">NM_002967.1</a> , <a href="#">NM_002967.2</a> , <a href="#">NM_002967.3</a> , <a href="#">NM_001201340.1</a> , <a href="#">NM_001201339.1</a> , <a href="#">NM_001201338.1</a> , <a href="#">BC020309</a> , <a href="#">BC032055</a> , <a href="#">BC126219</a> , <a href="#">BC143937</a> , <a href="#">BC143938</a> , <a href="#">BC143939</a> , <a href="#">NM_001201340.2</a> , <a href="#">NM_001201339.2</a> , <a href="#">NM_001201338.2</a>
UniProt ID:	<a href="#">Q15424</a>
Summary:	This gene encodes a DNA-binding protein which has high specificity for scaffold or matrix attachment region DNA elements (S/MAR DNA). This protein is thought to be involved in attaching the base of chromatin loops to the nuclear matrix but there is conflicting evidence as to whether this protein is a component of chromatin or a nuclear matrix protein. Scaffold attachment factors are a specific subset of nuclear matrix proteins (NMP) that specifically bind to S/MAR. The encoded protein is thought to serve as a molecular base to assemble a 'transcriptosome complex' in the vicinity of actively transcribed genes. It is involved in the regulation of heat shock protein 27 transcription, can act as an estrogen receptor co-repressor and is a candidate for breast tumorigenesis. This gene is arranged head-to-head with a similar gene whose product has the same functions. Multiple transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Jan 2011]



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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](mailto: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](mailto: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).