

Product datasheet for **TR301346**

Staufen (STAU1) Human shRNA Plasmid Kit (Locus ID 6780)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Staufen (STAU1) Human shRNA Plasmid Kit (Locus ID 6780)
Locus ID:	6780
Synonyms:	PPP1R150; STAU
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	STAU1 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 6780). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	NM_001037328 , NM_001319134 , NM_001319135 , NM_004602 , NM_017452 , NM_017453 , NM_017454 , NM_001322927 , NM_001322928 , NM_001322929 , NM_001322930 , NM_001322931 , NM_001322932 , NM_001322933 , NM_017453.1 , NM_017453.2 , NM_017453.3 , NM_004602.1 , NM_004602.2 , NM_004602.3 , NM_017454.1 , NM_017454.2 , NM_017454.3 , NM_017452.1 , NM_017452.2 , NM_017452.3 , NM_001037328.1 , NM_001037328.2 , BC050432 , BC050432.1 , BC095397 , BC095397.1 , BC000830 , BC001893 , BC007532 , BC010169 , NM_017453.4
UniProt ID:	O95793
Summary:	Staufen is a member of the family of double-stranded RNA (dsRNA)-binding proteins involved in the transport and/or localization of mRNAs to different subcellular compartments and/or organelles. These proteins are characterized by the presence of multiple dsRNA-binding domains which are required to bind RNAs having double-stranded secondary structures. The human homologue of staufen encoded by STAU, in addition contains a microtubule-binding domain similar to that of microtubule-associated protein 1B, and binds tubulin. The STAU gene product has been shown to be present in the cytoplasm in association with the rough endoplasmic reticulum (RER), implicating this protein in the transport of mRNA via the microtubule network to the RER, the site of translation. [provided by RefSeq, Apr 2020]



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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).