

## Product datasheet for **TF320533**

### SRPK2 Human shRNA Plasmid Kit (Locus ID 6733)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	SRPK2 Human shRNA Plasmid Kit (Locus ID 6733)
Locus ID:	6733
Synonyms:	SFRSK2
Vector:	pRFP-C-RS (TR30014)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	SRPK2 - Human, 4 unique 29mer shRNA constructs in retroviral RFP vector(Gene ID = 6733). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRFP-C-RS Vector, TR30015, included for free.
RefSeq:	<a href="#">NM_001278273</a> , <a href="#">NM_003138</a> , <a href="#">NM_182691</a> , <a href="#">NM_182692</a> , <a href="#">NM_001350738</a> , <a href="#">NM_001350739</a> , <a href="#">NM_001350740</a> , <a href="#">NM_001350741</a> , <a href="#">NM_001350742</a> , <a href="#">NM_001350743</a> , <a href="#">NM_001350744</a> , <a href="#">NM_001350745</a> , <a href="#">NM_001350746</a> , <a href="#">NM_182691.1</a> , <a href="#">NM_182691.2</a> , <a href="#">NM_182692.1</a> , <a href="#">NM_182692.2</a> , <a href="#">NM_001278273.1</a> , <a href="#">BC035214</a> , <a href="#">BC035214.1</a> , <a href="#">BC068547</a> , <a href="#">BM805927</a> , <a href="#">NM_182692.3</a>
UniProt ID:	<a href="#">P78362</a>
Summary:	Serine/arginine-rich protein-specific kinase which specifically phosphorylates its substrates at serine residues located in regions rich in arginine/serine dipeptides, known as RS domains and is involved in the phosphorylation of SR splicing factors and the regulation of splicing. Promotes neuronal apoptosis by up-regulating cyclin-D1 (CCND1) expression. This is done by the phosphorylation of SRSF2, leading to the suppression of p53/TP53 phosphorylation thereby relieving the repressive effect of p53/TP53 on cyclin-D1 (CCND1) expression. Phosphorylates ACIN1, and redistributes it from the nuclear speckles to the nucleoplasm, resulting in cyclin A1 but not cyclin A2 up-regulation. Plays an essential role in spliceosomal B complex formation via the phosphorylation of DDX23/PRP28. Can mediate hepatitis B virus (HBV) core protein phosphorylation. Plays a negative role in the regulation of HBV replication through a mechanism not involving the phosphorylation of the core protein but by reducing the packaging efficiency of the pregenomic RNA (pgRNA) without affecting the formation of the viral core particles.[UniProtKB/Swiss-Prot Function]



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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).