

## Product datasheet for **TF320669**

### SIK3 Human shRNA Plasmid Kit (Locus ID 23387)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	SIK3 Human shRNA Plasmid Kit (Locus ID 23387)
Locus ID:	23387
Synonyms:	L19; QSK; SEMDK; SIK-3
Vector:	pRFP-C-RS (TR30014)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	SIK3 - Human, 4 unique 29mer shRNA constructs in retroviral RFP vector(Gene ID = 23387). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRFP-C-RS Vector, TR30015, included for free.
RefSeq:	<a href="#">NM_001281748</a> , <a href="#">NM_001281749</a> , <a href="#">NM_025164</a> , <a href="#">NM_025164.1</a> , <a href="#">NM_025164.2</a> , <a href="#">NM_025164.3</a> , <a href="#">NM_025164.4</a> , <a href="#">NM_001281748.1</a> , <a href="#">NM_001281749.1</a> , <a href="#">BC035583</a> , <a href="#">BC063887</a> , <a href="#">BC086858</a> , <a href="#">BC121188</a> , <a href="#">BC128510</a> , <a href="#">BC128511</a> , <a href="#">BM127054</a> , <a href="#">BM682365</a> , <a href="#">NM_001366686</a> , <a href="#">NM_001366687</a> , <a href="#">NM_001281749.3</a> , <a href="#">NM_001281748.3</a>
UniProt ID:	<a href="#">Q9Y2K2</a>
Summary:	Positive regulator of mTOR signaling that functions by triggering the degradation of DEPTOR, an mTOR inhibitor. Involved in the dynamic regulation of mTOR signaling in chondrocyte differentiation during skeletogenesis (PubMed:30232230). Negatively regulates cAMP signaling pathway possibly by acting on CRTC2/TORC2 and CRTC3/TORC3 (Probable). Prevents HDAC4 translocation to the nucleus (By similarity).[UniProtKB/Swiss-Prot Function]
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 <a href="mailto:techsupport@origene.com">techsupport@origene.com</a> . If you need a special design or shRNA sequence, please utilize our <a href="#">custom shRNA service</a> .



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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](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).