

## Product datasheet for **TR507110**

### Kank2 Mouse shRNA Plasmid (Locus ID 235041)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	Kank2 Mouse shRNA Plasmid (Locus ID 235041)
Locus ID:	235041
Synonyms:	AI504612; Ankrd25; BC010245
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Kank2 - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 235041). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">BC010245</a> , <a href="#">NM_145611</a> , <a href="#">NM_145611.1</a> , <a href="#">NM_145611.2</a> , <a href="#">NM_145611.3</a> , <a href="#">NM_145611.4</a> , <a href="#">BC006647</a> , <a href="#">BC028803</a>
UniProt ID:	<a href="#">Q8BX02</a>
Summary:	Involved in transcription regulation by sequestering in the cytoplasm nuclear receptor coactivators such as NCOA1, NCOA2 and NCOA3 (By similarity). Involved in regulation of caspase-independent apoptosis by sequestering the proapoptotic factor AIFM1 in mitochondria (By similarity). Pro-apoptotic stimuli can induce its proteasomal degradation allowing the translocation of AIFM1 to the nucleus to induce apoptosis (By similarity). Involved in the negative control of vitamin D receptor signaling pathway (By similarity). Involved in actin stress fibers formation through its interaction with ARHGDI1 and the regulation of the Rho signaling pathway (PubMed:25961457). May thereby play a role in cell adhesion and migration, regulating for instance podocytes migration during development of the kidney (PubMed:25961457). Through the Rho signaling pathway may also regulate cell proliferation (PubMed:16024821).[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).