

## Product datasheet for **TR511262**

### Ckap5 Mouse shRNA Plasmid (Locus ID 75786)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	Ckap5 Mouse shRNA Plasmid (Locus ID 75786)
Locus ID:	75786
Synonyms:	3110043H24Rik; 4930432B04Rik; D730027C18Rik; mKIAA0097; T25636
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Ckap5 - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 75786). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">BC089032</a> , <a href="#">BC096422</a> , <a href="#">NM_001165989</a> , <a href="#">NM_029437</a> , <a href="#">NM_001165989.1</a> , <a href="#">NM_029437.1</a> , <a href="#">NM_029437.2</a> , <a href="#">NM_001165989.2</a> , <a href="#">BC017140</a> , <a href="#">BC026706</a> , <a href="#">BC026710</a> , <a href="#">BC034094</a> , <a href="#">BC053459</a> , <a href="#">BC059881</a> , <a href="#">BC098098</a> , <a href="#">BC138334</a>
UniProt ID:	<a href="#">A2AGT5</a>
Summary:	Binds to the plus end of microtubules and regulates microtubule dynamics and microtubule organization. Acts as processive microtubule polymerase. Promotes cytoplasmic microtubule nucleation and elongation. Plays a major role in organizing spindle poles. In spindle formation protects kinetochore microtubules from depolymerization by KIF2C and has an essential role in centrosomal microtubule assembly independently of KIF2C activity. Contributes to centrosome integrity. Acts as component of the TACC3/ch-TOG/clathrin complex proposed to contribute to stabilization of kinetochore fibers of the mitotic spindle by acting as inter-microtubule bridge. The TACC3/ch-TOG/clathrin complex is required for the maintenance of kinetochore fiber tension. Enhances the strength of NDC80 complex-mediated kinetochore-tip microtubule attachments.[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).