

## Product datasheet for **TR505096**

### Ipo4 Mouse shRNA Plasmid (Locus ID 75751)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	Ipo4 Mouse shRNA Plasmid (Locus ID 75751)
Locus ID:	75751
Synonyms:	8430408O15Rik; AA409693; Imp4a; RanBP4
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Ipo4 - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 75751). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">BC003469</a> , <a href="#">BC085150</a> , <a href="#">NM_024267</a> , <a href="#">NM_001360078</a> , <a href="#">NR_153401</a> , <a href="#">NR_153402</a> , <a href="#">NM_024267.1</a> , <a href="#">NM_024267.2</a> , <a href="#">NM_024267.3</a> , <a href="#">NM_024267.4</a> , <a href="#">NM_024267.5</a> , <a href="#">NM_024267.6</a> , <a href="#">BC003469.1</a> , <a href="#">BC075690</a> , <a href="#">NM_024267.7</a>
UniProt ID:	<a href="#">Q8VI75</a>
Summary:	Functions in nuclear protein import as nuclear transport receptor. Serves as receptor for nuclear localization signals (NLS) in cargo substrates. Is thought to mediate docking of the importin/substrate complex to the nuclear pore complex (NPC) through binding to nucleoporin and the complex is subsequently translocated through the pore by an energy requiring, Ran-dependent mechanism. At the nucleoplasmic side of the NPC, Ran binds to the importin, the importin/substrate complex dissociates and importin is re-exported from the nucleus to the cytoplasm where GTP hydrolysis releases Ran. The directionality of nuclear import is thought to be conferred by an asymmetric distribution of the GTP- and GDP-bound forms of Ran between the cytoplasm and nucleus (By similarity). Mediates the nuclear import of RPS3A. Acts as chaperone for exposed basic domains.[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).