

## Product datasheet for **TR516495**

### Tespa1 Mouse shRNA Plasmid (Locus ID 67596)

#### Product data:

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Type:             | shRNA Plasmids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Product Name:             | Tespa1 Mouse shRNA Plasmid (Locus ID 67596)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Locus ID:                 | 67596                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Synonyms:                 | 5830405N20Rik; A430001F24Rik; AI450549                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Vector:                   | pRS (TR20003)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| E. coli Selection:        | Ampicillin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Mammalian Cell Selection: | Puromycin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Format:                   | Retroviral plasmids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Components:               | Tespa1 - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector (Gene ID = 67596). 5µg purified plasmid DNA per construct<br>29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.                                                                                                                                                                                                                                                                                                                                                                                                          |
| RefSeq:                   | <a href="#">BC064065</a> , <a href="#">NM_183264</a> , <a href="#">NM_183264.1</a> , <a href="#">NM_183264.2</a> , <a href="#">NM_183264.3</a> , <a href="#">NM_183264.4</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| UniProt ID:               | <a href="#">Q3U132</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Summary:                  | May play a role in the regulation of inositol 1,4,5-trisphosphate receptor-mediated Ca(2+) release and mitochondrial Ca(2+) uptake via the mitochondria-associated endoplasmic reticulum membrane (MAM) compartment (By similarity). Required for the development and maturation of T-cells, its function being essential for the late stages of thymocyte development. Plays a role in T-cell antigen receptor (TCR)-mediated activation of the ERK and NFAT signaling pathways, possibly by serving as a scaffolding protein that promotes the assembly of the LAT signalosome in thymocytes.[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).