

## Product datasheet for **TR504966**

### Osbp2 Mouse shRNA Plasmid (Locus ID 74309)

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | shRNA Plasmids   |
| Product Name:             | Osbp2 Mouse shRNA Plasmid (Locus ID 74309)   |
| Locus ID:                 | 74309  |
| Synonyms:                 | 1700095P05Rik; C630001G20Rik; Gm244; ORP-4; OSBPL1   |
| Vector:                   | pRS (TR20003)  |
| E. coli Selection:        | Ampicillin   |
| Mammalian Cell Selection: | Puromycin  |
| Format:                   | Retroviral plasmids  |
| Components:               | Osbp2 - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 74309). 5µg purified plasmid DNA per construct<br>29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.  |
| RefSeq:                   | <a href="#">BC031794</a> , <a href="#">BC058356</a> , <a href="#">BC058602</a> , <a href="#">NM_001302630</a> , <a href="#">NM_001302631</a> , <a href="#">NM_152818</a> , <a href="#">NM_152818.1</a> , <a href="#">NM_152818.2</a> , <a href="#">NM_001302630.1</a> , <a href="#">NM_001302631.1</a> , <a href="#">BC031794.1</a> , <a href="#">BC034567</a> , <a href="#">BC051185</a> , <a href="#">NM_001363163</a> , <a href="#">NM_001363164</a> , <a href="#">NM_152818.3</a> , <a href="#">NM_001302630.2</a> , <a href="#">NM_001302631.2</a>  |
| UniProt ID:               | <a href="#">Q5QNQ6</a>   |
| Summary:                  | The protein encoded by this gene belongs to the oxysterol-binding protein-related family of proteins, which are defined by a C-terminal sterol domain with a highly conserved EQVSHHPP motif. Oxysterols are oxygenated derivatives of cholesterol that are involved in mechanisms that include apoptosis, cholesterol homeostasis, lipid trafficking and cell differentiation. This protein is selectively expressed at high levels in the brain and testis. Within the testis, the mRNA is localized to postmeiotic germ cells, including spermatids and spermatozoa, but is not detectable in somatic cells. Mice homozygous mutant for a targeted deletion in this gene do not exhibit overt developmental phenotypes but are male sterile. Females display normal fertility. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2014] |
| 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> .   |



[View online »](#)

**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).