

## Product datasheet for **TR506072**

### Znrf1 Mouse shRNA Plasmid (Locus ID 170737)

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | shRNA Plasmids   |
| Product Name:             | Znrf1 Mouse shRNA Plasmid (Locus ID 170737)  |
| Locus ID:                 | 170737   |
| Synonyms:                 | B830022L21Rik; nin283; Rnf42; Zrfp1  |
| Vector:                   | pRS (TR20003)  |
| E. coli Selection:        | Ampicillin   |
| Mammalian Cell Selection: | Puromycin  |
| Format:                   | Retroviral plasmids  |
| Components:               | Znrf1 - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 170737). 5µg purified plasmid DNA per construct<br>29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.   |
| RefSeq:                   | <a href="#">BC006765</a> , <a href="#">BC086770</a> , <a href="#">NM_001168621</a> , <a href="#">NM_001168622</a> , <a href="#">NM_001168623</a> , <a href="#">NM_133206</a> , <a href="#">NM_001168621.1</a> , <a href="#">NM_133206.1</a> , <a href="#">NM_133206.2</a> , <a href="#">NM_133206.3</a> , <a href="#">NM_001168623.1</a> , <a href="#">NM_001168622.1</a> , <a href="#">BM950431</a> , <a href="#">NM_001363488</a> , <a href="#">NM_001363489</a> , <a href="#">NM_001168622.2</a> , <a href="#">NM_001168621.2</a> , <a href="#">NM_001168623.2</a> , <a href="#">NM_133206.4</a>  |
| UniProt ID:               | <a href="#">Q91V17</a>   |
| Summary:                  | E3 ubiquitin-protein ligase that mediates the ubiquitination of AKT1 and GLUL, thereby playing a role in neuron cells differentiation. Plays a role in the establishment and maintenance of neuronal transmission and plasticity. Regulates Schwann cells differentiation by mediating ubiquitination of GLUL. Promotes Wallerian degeneration, a neurodegeneration disorder, by mediating 'Lys-48'-linked polyubiquitination and subsequent degradation of AKT1 in axons: degradation of AKT1 prevents AKT1-mediated phosphorylation of GSK3B, leading to GSK3B activation and phosphorylation of DPYSL2/CRMP2 followed by destabilization of microtubule assembly in axons.[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).