

## Product datasheet for **TR502917**

### Rufy3 Mouse shRNA Plasmid (Locus ID 52822)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	Rufy3 Mouse shRNA Plasmid (Locus ID 52822)
Locus ID:	52822
Synonyms:	2810428M05Rik; 6330416M07Rik; AW455998; AW538594; D5Bwg0860e; Ripx; Rpipx
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Rufy3 - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 52822). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">BC017648</a> , <a href="#">BC049127</a> , <a href="#">BC058259</a> , <a href="#">NM_001289774</a> , <a href="#">NM_001289775</a> , <a href="#">NM_001289776</a> , <a href="#">NM_001289777</a> , <a href="#">NM_027530</a> , <a href="#">NM_001359208</a> , <a href="#">NM_001359209</a> , <a href="#">NM_027530.1</a> , <a href="#">NM_027530.2</a> , <a href="#">NM_027530.3</a> , <a href="#">NM_001289776.1</a> , <a href="#">NM_001289777.1</a> , <a href="#">NM_001289775.1</a> , <a href="#">NM_001289774.1</a> , <a href="#">BM898740</a>
UniProt ID:	<a href="#">Q9D394</a>
Summary:	Plays a role in the generation of neuronal polarity formation and axon growth (PubMed:24720729). Implicated in the formation of a single axon by developing neurons (PubMed:24720729). May inhibit the formation of additional axons by inhibition of PI3K in minor neuronal processes (By similarity). Plays a role in the formation of F-actin-enriched protrusive structures at the cell periphery (By similarity). Plays a role in cytoskeletal organization by regulating the subcellular localization of FSCN1 and DBN1 at axonal growth cones (PubMed:24720729). Promotes gastric cancer cell migration and invasion in a PAK1-dependent manner (By similarity).[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).