

Product datasheet for TR506596

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OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

Tmem55b Mouse shRNA Plasmid (Locus ID 219024)

Product data:

Product Type: shRNA Plasmids

Product Name: Tmem55b Mouse shRNA Plasmid (Locus ID 219024)

Locus ID:

BC039161; Pip4p1 Synonyms:

Vector: pRS (TR20003)

E. coli Selection: Ampicillin

Mammalian Cell

Puromycin

Selection:

Format: Retroviral plasmids

Tmem55b - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = Components:

219024). 5µg purified plasmid DNA per construct

29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.

BC106163, NM 001033271, NM 001310505, NM 001310506, NM 001310507, RefSeq:

NM 001033271.1, NM 001033271.2, NM 001033271.3, NM 001033271.4, NM 001033271.5,

BC027355, BC039161, BC049945, BC058171

UniProt ID: Q3TWL2

Summary: Catalyzes the hydrolysis of phosphatidylinositol-4,5-bisphosphate (PtdIns-4,5-P2) to

phosphatidylinositol-4-phosphate (PtdIns-4-P) (By similarity). Does not hydrolyze

phosphatidylinositol 3,4,5-trisphosphate, phosphatidylinositol 3,4-bisphosphate, inositol 3,5-

bisphosphate, inositol 3,4-bisphosphate, phosphatidylinositol 5-monophosphate,

phosphatidylinositol 4-monophosphate and phosphatidylinositol 3-monophosphate (By similarity). Regulates lysosomal positioning by recruiting JIP4 to lysosomal membranes, thus inducing retrograde transport of lysosomes along microtubules (By similarity). Contributes to

assembly of the V-ATPase complex in lipid rafts of the lysosomal membrane and to subsequent amino acid-dependent activation of mTORC1 (PubMed:29644770). May play a role in the regulation of cellular cholesterol metabolism (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 techsupport@origene.com. If you need a special design or shRNA sequence, please utilize our custom shRNA service.







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. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).