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Product datasheet for TL503117

Mpp5 Mouse shRNA Plasmid (Locus ID 56217)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Mpp5 Mouse shRNA Plasmid (Locus ID 56217)
Locus ID:	56217
Synonyms:	3830420B02Rik; AI255216; AI644496; Pals1
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	Mpp5 - Mouse, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 56217). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	NM_019579, NM_019579.1, NM_019579.2, NM_019579.3, BC138624, BC067404, BC075698
UniProt ID:	Q9JLB2

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Summary:

Plays a role in tight junction biogenesis and in the establishment of cell polarity in epithelial cells (By similarity). Also involved in adherens junction biogenesis by ensuring correct localization of the exocyst complex protein EXOC4/SEC8 which allows trafficking of adherens junction structural component CDH1 to the cell surface (PubMed:17182851, PubMed:20237282). Plays a role through its interaction with CDH5 in vascular lumen formation and endothelial membrane polarity (By similarity). Required during embryonic and postnatal retinal development (PubMed:22398208). Required for the maintenance of cerebellar progenitor cells in an undifferentiated proliferative state, preventing premature differentiation, and is required for cerebellar histogenesis, fissure formation and cerebellar layer organization (PubMed:26657772). Plays a role in the radial and longitudinal extension of the myelin sheath in Schwann cells (PubMed:20237282). May modulate SC6A1/GAT1-mediated GABA uptake by stabilizing the transporter (PubMed:15234345). May play a role in the T-cell receptor-mediated activation of NF-kappa-B (By similarity). Required for localization of EZR to the apical membrane of parietal cells and may play a role in the dynamic remodeling of the apical cytoskeleton (PubMed:15677456). Required for the normal polarized localization of the vesicular marker STX4 (PubMed:20237282). Required for the correct trafficking of the myelin proteins PMP22 and MAG (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).