

## **Product datasheet for TR501418**

## **Myo10 Mouse shRNA Plasmid (Locus ID 17909)**

**Product data:** 

**Product Type:** shRNA Plasmids

**Product Name:** Myo10 Mouse shRNA Plasmid (Locus ID 17909)

**Locus ID:** 17909

Synonyms: AW048724; D15Ertd600e; mKIAA0799; myosin-X

Vector: pRS (TR20003)

E. coli Selection: Ampicillin

Mammalian Cell Puromycin

Selection:

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Format: Retroviral plasmids

Components: Myo10 - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID =

17909). 5µg purified plasmid DNA per construct

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

RefSeq: NM 019472, NM 001353141, NM 001353142, NM 019472.1, NM 019472.2, BC024692,

BC037457, BC156151, BC157051

UniProt ID: F8VQB6

Summary: Myosins are actin-based motor molecules with ATPase activity. Unconventional myosins serve

in intracellular movements. MYO10 binds to actin filaments and actin bundles and functions as plus end-directed motor. The tail domain binds to membranous compartments containing phosphatidylinositol 3,4,5-trisphosphate or integrins, and mediates cargo transport along

actin filaments (By similarity). Regulates cell shape, cell spreading and cell adhesion.

Stimulates the formation and elongation of filopodia. May play a role in neurite outgrowth and axon guidance. In hippocampal neurons it induces the formation of dendritic filopodia by trafficking the actin-remodeling protein VASP to the tips of filopodia, where it promotes actin elongation. Plays a role in formation of the podosome belt in osteoclasts.[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 <u>techsupport@origene.com</u>. If you need a special design or shRNA sequence, please utilize our <u>custom shRNA service</u>.



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