

Product datasheet for TR311297

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MYO1E Human shRNA Plasmid Kit (Locus ID 4643)

Product data:

Product Type: shRNA Plasmids

Product Name: MYO1E Human shRNA Plasmid Kit (Locus ID 4643)

Locus ID: 4643

Synonyms: FSGS6; HuncM-IC; MYO1C

Vector: pRS (TR20003)

E. coli Selection: Ampicillin

Mammalian Cell Puromycin

Selection:

Format: Retroviral plasmids

Components: MYO1E - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID =

4643). 5µg purified plasmid DNA per construct

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

RefSeq: NM 004998, NM 004998.1, NM 004998.2, NM 004998.3, BC098392, BC067835, NM 004998.4

UniProt ID: Q12965

Summary: This gene encodes a member of the nonmuscle class I myosins which are a subgroup of the

unconventional myosin protein family. The unconventional myosin proteins function as actinbased molecular motors. Class I myosins are characterized by a head (motor) domain, a regulatory domain and a either a short or long tail domain. Among the class I myosins, this protein is distinguished by a long tail domain that is involved in crosslinking actin filaments. This protein localizes to the cytoplasm and may be involved in intracellular movement and

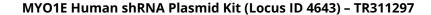
membrane trafficking. Mutations in this gene are the cause of focal segmental

glomerulosclerosis-6. This gene has been referred to as myosin IC in the literature but is distinct from the myosin IC gene located on chromosome 17. [provided by RefSeq, Jan 2012]

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>.







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).