

Product datasheet for TR311467

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MKRN1 Human shRNA Plasmid Kit (Locus ID 23608)

Product data:

Product Type: shRNA Plasmids

Product Name: MKRN1 Human shRNA Plasmid Kit (Locus ID 23608)

Locus ID: 23608 Synonyms: RNF61

Vector: pRS (TR20003)

E. coli Selection: Ampicillin

Mammalian Cell Puromycin

Selection:

Format:

Retroviral plasmids

Components: MKRN1 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID =

23608). 5µg purified plasmid DNA per construct

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

RefSeq: NM 001145125, NM 001291663, NM 013446, NR 117084, NM 013446.1, NM 013446.2,

NM 013446.3, NM 001145125.1, NM 001291663.1, BC025955, BC025955.1, BC012398,

BC037400, BC051821, BC064838, BC127216

UniProt ID: Q9UHC7

Summary: This gene encodes a protein that belongs to a novel class of zinc finger proteins. The encoded

protein functions as a transcriptional co-regulator, and as an E3 ubiquitin ligase that promotes the ubiquitination and proteasomal degradation of target proteins. The protein encoded by this gene is thought to regulate RNA polymerase II-catalyzed transcription. Substrates for this protein's E3 ubiquitin ligase activity include the capsid protein of the West

Nile virus and the catalytic subunit of the telomerase ribonucleoprotein. This protein controls cell cycle arrest and apoptosis by regulating p21, a cell cycle regulator, and the tumor

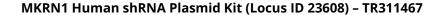
suppressor protein p53. Pseudogenes of this gene are present on chromosomes 1, 3, 9, 12 and 20, and on the X chromosome. Alternative splicing results in multiple transcript variants

encoding different isoforms. [provided by RefSeq, Apr 2014]

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).