

Product datasheet for TR316615

OriGene Technologies, Inc.

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MGMT Human shRNA Plasmid Kit (Locus ID 4255)

Product data:

Product Type: shRNA Plasmids

Product Name: MGMT Human shRNA Plasmid Kit (Locus ID 4255)

Locus ID: 4255

Vector: pRS (TR20003)

E. coli Selection: Ampicillin

Mammalian Cell Puromycin

Selection:

Format: Retroviral plasmids

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

4255). 5µg purified plasmid DNA per construct

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

RefSeq: NM 002412, NM 002412.1, NM 002412.2, NM 002412.3, NM 002412.4, BC000824,

BC000824.1, NM 002412.5

UniProt ID: P16455

Summary: Alkylating agents are potent carcinogens that can result in cell death, mutation and cancer.

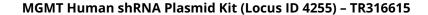
The protein encoded by this gene is a DNA repair protein that is involved in cellular defense against mutagenesis and toxicity from alkylating agents. The protein catalyzes transfer of methyl groups from O(6)-alkylguanine and other methylated moieties of the DNA to its own molecule, which repairs the toxic lesions. Methylation of the genes promoter has been

associated with several cancer types, including colorectal cancer, lung cancer, lymphoma and

glioblastoma. [provided by RefSeq, Sep 2015]

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 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).