

## Product datasheet for **TL316615**

### 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:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	MGMT - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 4255). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	<a href="#">NM_002412</a> , <a href="#">NM_002412.1</a> , <a href="#">NM_002412.2</a> , <a href="#">NM_002412.3</a> , <a href="#">NM_002412.4</a> , <a href="#">BC000824</a> , <a href="#">BC000824.1</a> , <a href="#">NM_002412.5</a>
UniProt ID:	<a href="#">P16455</a>
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 <a href="mailto:techsupport@origene.com">techsupport@origene.com</a> . If you need a special design or shRNA sequence, please utilize our <a href="#">custom shRNA service</a> .

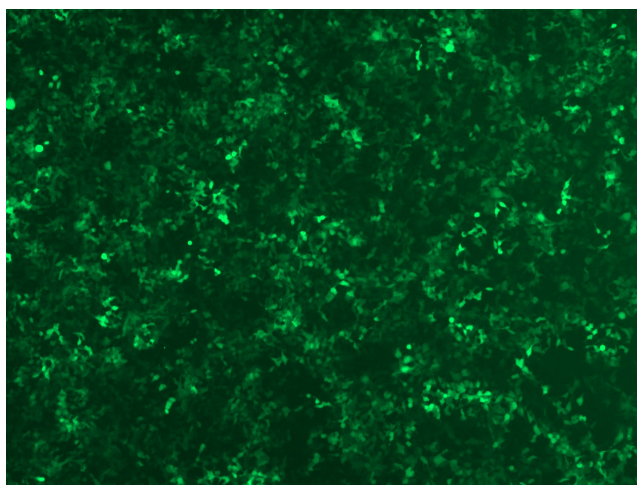


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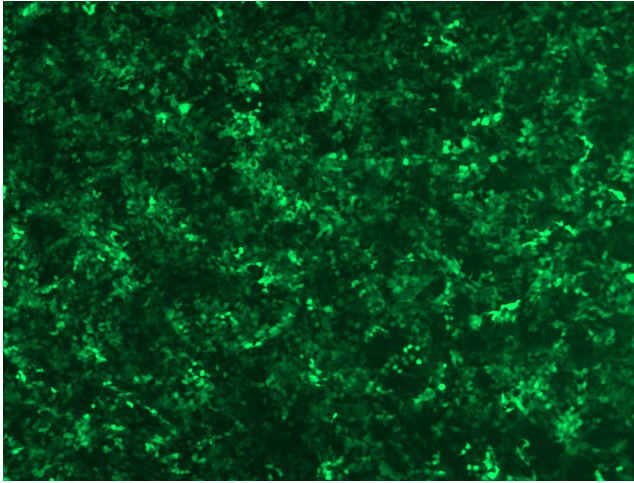
**Performance  
Guaranteed:**

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.

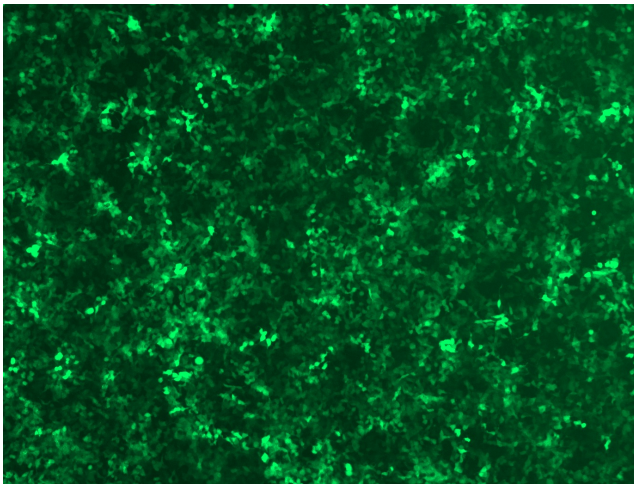
For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at [techsupport@origene.com](mailto:techsupport@origene.com). Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).

**Product images:**

GFP signal was observed under microscope at 48 hours after transduction of TL316615B virus into HEK293 cells. TL316615B virus was prepared using lenti-shRNA TL316615B and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL316615C] virus into HEK293 cells. [TL316615C] virus was prepared using lenti-shRNA [TL316615C] and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL316615D] virus into HEK293 cells. [TL316615D] virus was prepared using lenti-shRNA [TL316615D] and [TR30037] packaging kit.