

Product datasheet for RC201612L3

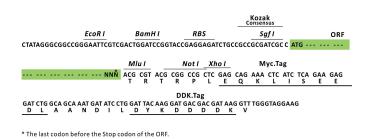
MGMT (NM_002412) Human Tagged Lenti ORF Clone

Product data:

OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	MGMT (NM_002412) Human Tagged Lenti ORF Clone
Tag:	Myc-DDK
Symbol:	MGMT
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC201612).
Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	
	Cloning sites used for ORF Shuttling:
	Sgf I ORF Mlu I GCG ATC GCC ATG NNN ACG CGT



ACCN: ORF Size: NM_002412 621 bp



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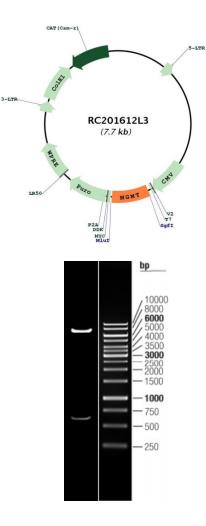
	(NM_002412) Human Tagged Lenti ORF Clone – RC201612L3
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <u>custsupport@origene.com</u> or by calling 301.340.3188 option 3 for pricing and delivery.
	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <u>More info</u>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>NM 002412.2</u>
RefSeq Size:	866 bp
RefSeq ORF:	624 bp
Locus ID:	4255
UniProt ID:	<u>P16455</u>
Cytogenetics:	10q26.3
Domains:	Methyltransf_1
Protein Families:	Druggable Genome
MW:	21.5 kDa

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GRIGENE MGMT (NM_002412) Human Tagged Lenti ORF Clone – RC201612L3

Gene 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]

Product images:



Circular map for RC201612L3

Double digestion of RC201612L3 using Sgfl and Mlul

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