

Product datasheet for **RC229131L4V**

MGMT (NM_002412) Human Tagged ORF Clone Lentiviral Particle

Product data:

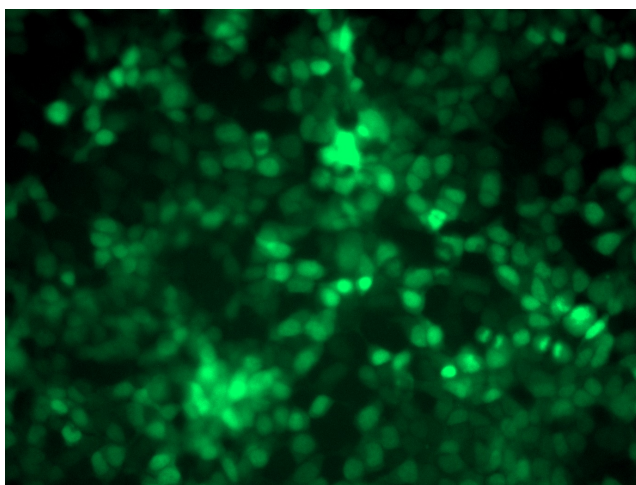
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|---------------------------|--|
| Product Type: | Lentiviral Particles |
| Product Name: | MGMT (NM_002412) Human Tagged ORF Clone Lentiviral Particle |
| Symbol: | MGMT |
| Mammalian Cell Selection: | Puromycin |
| Vector: | pLenti-C-mGFP-P2A-Puro (PS100093) |
| Tag: | mGFP |
| ACCN: | NM_002412 |
| ORF Size: | 714 bp |
| ORF Nucleotide Sequence: | The ORF insert of this clone is exactly the same as(RC229131). |
| OTI Disclaimer: | 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. More info |
| OTI Annotation: | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene. |
| RefSeq: | NM_002412.3 |
| RefSeq ORF: | 624 bp |
| Locus ID: | 4255 |
| UniProt ID: | P16455 |
| Cytogenetics: | 10q26.3 |
| Domains: | Methyltransf_1 |
| Protein Families: | Druggable Genome |
| MW: | 24.9 kDa |



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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:

[RC229131L4] was used to prepare Lentiviral particles using [TR30037] packaging kit. HEK293T cells were transduced with RC229131L4V particle to overexpress human MGMT-mGFP fusion protein.