

## Product datasheet for MR202297

### Mgmt (NM\_008598) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Mgmt (NM\_008598) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Mgmt  
**Synonyms:** Agat; AGT; AI267024  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR202297 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGAGACCTGCAAAATGAAATACTCAGTGTGGACAGCCCTTTGGGAAGATGGAGCTGTCTGACT  
GTGAGCGAGGCCATGGGATACGGTTGCTCAGTGGGAAGACCCAAACACTGACCCACAGAGGCC  
AGCTACTCCTGAGGTGCTCGGTGGCCAGAGGGAGTCCAGAGCCTCTGGTGCAGTGCACAGCCTGGCTG  
GAAGCCTATTTCCGTGAACCCGACCCACAGAGGGGCTCCCTTGCTGCTCCTCATCACCTGTGTTC  
AGCAAGATTCATTCACCAGACAGGTGTTATGGAAGCTGCTGAAGTTGTGAAATTCGGAGAAACGGTTTC  
TTACCAGCAATTAGCAGCCCTGGCAGGCAACCCAAAGCGGCTCGTGCAGTAGGAGGAGCAATGAGAAGC  
AATCCGGTCCCATCCTCATCCCTGCCACAGGTGGTTCGACGTGACGGTGCCATCGGCCATTACTCCG  
GAGGAGGGCAGGCTGTGAAGGAGTGGCTTCTGGCCATGAGGGCATCCCGACCGGACAGCCAGCCTCAA  
GGGCTTGGGTCTGACTGGGACCTGGCTCAAGTCATCCTTCGAGTCGACCAGCTCTGAGCCGTCTGGCCGA  
AAT

**ACGCGT**ACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR202297 protein sequence  
 Red=Cloning site Green=Tags(s)

MAETCKMKYSLVLDSPLGKMEISDCERGLHGIRLLSGKTPNTDPTEAPATPEVLGGPEGVPEPLVQCTAWL  
 EAYFREPAATEGLPLPALHHPVFQQDSFTRQVLWKLKVVKFGETVSYQQLAALAGNPKAARAVGGAMRS  
 NPVPILIPCHRVRSDGAIGHYSGGGQAVKEWLLAHEGIPTGQPASKGLGLTGTWLKSSFFESTSSEPSGR  
 N

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

ACCN: NM\_008598

ORF Size: 636 bp

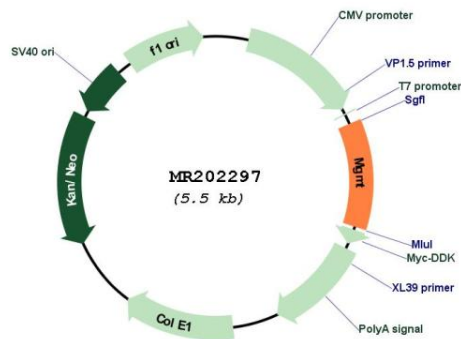
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) 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. [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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>5. 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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_008598.1</a></u> , <u><a href="#">NM_008598.2</a></u> , <u><a href="#">NP_032624.1</a></u>
<b>RefSeq Size:</b>	857 bp
<b>RefSeq ORF:</b>	636 bp
<b>Locus ID:</b>	17314
<b>UniProt ID:</b>	<u><a href="#">P26187</a></u>
<b>Cytogenetics:</b>	7 82.07 cM
<b>MW:</b>	22.5 kDa
<b>Gene Summary:</b>	Involved in the cellular defense against the biological effects of O6-methylguanine (O6-MeG) and O4-methylthymine (O4-MeT) in DNA. Repairs the methylated nucleobase in DNA by stoichiometrically transferring the methyl group to a cysteine residue in the enzyme. This is a suicide reaction: the enzyme is irreversibly inactivated.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR202297