

Product datasheet for **MC202089**

Mgmt (NM_008598) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mgmt (NM_008598) Mouse Untagged Clone
Tag: Tag Free
Symbol: Mgmt
Synonyms: Agat; AGT; AI267024
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC031888 sequence for NM_008598
 AAAAATTGTGTACCGTTCCCGTTGCTGTCTGCAGTTTGCAGCTGGAAGTGGCAGAATGGCTGAGACC
 TGCAAAATGAAATACTCAGTGTGGACAGCCCTTTGGGGAAGATGGAGCTGTCTGGCTGTGAGCGAGGCC
 TGCATGGGATACGGTTGCTCAGTGGGAAGACCCCAAACTGACCCACAGAGGCCCCAGCTACTCCTGA
 GGTGCTCGGTGGGCCAGAGGGAGTTCCAGAGCCTCTGGTGCAGTGCACAGCCTGGCTGGAAGCCTATTTCC
 CGTGAACCCGACAGCCACAGAGGGGCTTCCCTTGCCTGCTCCATCACCTGTGTTCCAGCAAGATTTCAT
 TCACCAGACAGGTGTTATGGAAGCTGCTGAAGTTGTGAAATTCGGAGAAACGGTTTCTTACCAGCAATT
 AGCAGCCCTGGCAGGCAACCCCAAGCGGCTCGTGCAGTAGGAGGAGCAATGAGAAGCAATCCGGTCCCC
 ATCCTCATCCCCTGCCACAGGGTGGTTCGCAGTGACGGTGCCATCGGCCATTACTCCGGAGGAGGGCAGG
 CTGTGAAGGAGTGGCTTCTGGCCATGAGGGCATCCCGACCGGACAGCCAGCCTCAAGGGCTTGGGTCT
 GACTGGGACCTGGCTCAAGTCATCCTTCGAGTCGACCGCTCTGAGCCGTCTGGCCGAAATTGAGTAACC
 GTTTGAATGACACATAGATGTAACGCGTGTGGAAGCGGATGTGTGGTGGCACCCTATATTAAGAGAGC
 TGCAAGTGTCAA

Restriction Sites: RsrII-NotI

ACCN: NM_008598

Insert Size: 636 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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).



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Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

RefSeq: [BC031888](#), [AAH31888](#)

RefSeq Size: 815 bp

RefSeq ORF: 636 bp

Locus ID: 17314

UniProt ID: [P26187](#)

Cytogenetics: 7 82.07 cM

Gene Summary: 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]