

Product datasheet for **RR207261**

Mgmt (NM_012861) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mgmt (NM_012861) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Mgmt
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RR207261 representing NM_012861
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGAGATCTGCAAAATGAAATACACGGTGTGGACAGCCCTTTGGGAAGATAGAGCTGTCCGGCT
GTGAGCGAGGCCATGGGATACGATTTCTCAGTGGGAAGACCCCAAACTGACCCACAGAGGCTCC
AGCCTGTCCTGAGGTGCTCGGTGGCCAGAGGGAGTGCCAGAGCCCTGGTGCAGTGCACAGCCTGGCTG
GAAGCCTATTTCCACGAACCTGCAGCCACAGAGGGCTTCCCTTGCTGCTCCATCACCTGTGTCC
AGCAAGATTCATTCACCAGACAGGTGTTATGGAAGCTGCTGAAGTTGTGAAATTCGGAGAATGGTTTC
TTACCAGCAATTAGCAGCCCTGGCAGGCAACCCAAAGCGGCTCGTGCAGTAGGAGGAGGATGAGGAGC
AATCCAGTCCCATCCTCATCCCCTGCCACAGGTGATTGCGAGTGACGGTGCCATTGGCAATTAATCTG
GAGGAGGACAGACTGTGAAAGAGTGGCTTCTGGCCATGAGGGCATCCCACTGGACAGCCGGCCTCCAA
AGGCTTGGGTCTGATTGGGAGCTGGCTCAAGCCATCCTTCGAGTCTTCCAGCCAAAGCGTCTGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR207261 representing NM_012861
Red=Cloning site Green=Tags(s)

MAEICKMKYTVLDSPLGKIELSGCERLHGIRFLSGKTPNTDPTEAPACPEVLGGPEGVPEPLVQCTAWL
EAYFHEPAATEGLPLALHHPVFQQDSFTRQVLWKLKVKVKGEMVSYQQLAALAGNPKAARAVGGAMRS
NPVPILIPCHRIVIRSDGAIGNYSGGQTVKEWLLAHEGIPTGQPASKGLGLIGSWLKPSFESSSPKPSG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

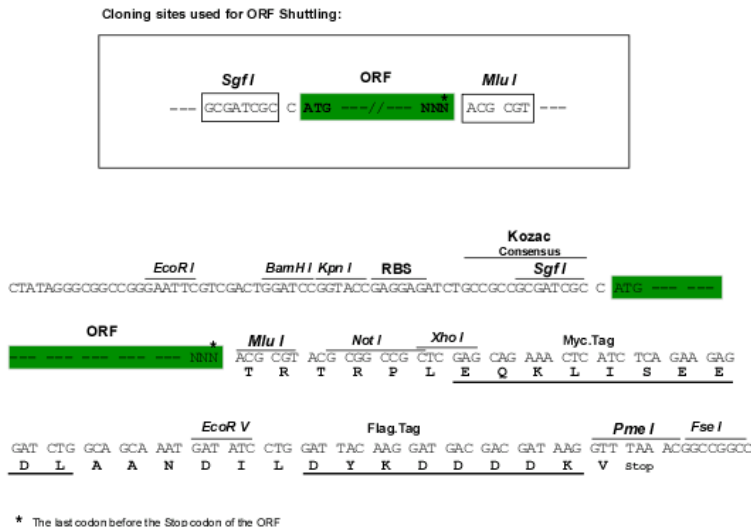
Chromatograms: https://cdn.origene.com/chromatograms/ja3514_c01.zip



[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_012861

ORF Size: 627 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 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.

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:

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: [NM_012861.1](#), [NP_036993.1](#)

RefSeq Size: 812 bp

RefSeq ORF: 630 bp

Locus ID: 25332

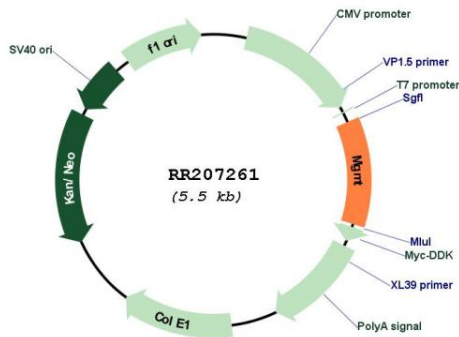
UniProt ID: [P24528](#)

Cytogenetics: 1q41

MW: 22.2 kDa

Gene Summary: enzyme involved in DNA repair of O(6)-alkylguanine which is the major mutagenic and carcinogenic lesion in DNA [RGD, Feb 2006]

Product images:



Circular map for RR207261