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Product datasheet for MG202297

Mgmt (NM_008598) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mgmt (NM_008598) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mgmt
Synonyms:	Agat; AGT; AI267024
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG202297 representing NM_008598
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTGAGACCTGCAAAATGAAATACTCAGTGTTGGACAGCCCTTTGGGGAAGATGGAGCTGTCTGACT
GTGAGCGAGGCCTGCATGGGATACGGTTGCTCAGTGGGAAGACCCCAAACACTGACCCCACAGAGGCCCC
AGCTACTCCTGAGGTGCTCGGTGGGCCAGAGGGAGTTCCAGAGCCTCTGGTGCAGTGCACAGCCTGGCTG
GAAGCCTATTTCCGTGAACCCGCAGCCACAGAGGGGCTTCCCTTGCCTGCTCTCCATCACCCTGTGTTCC
AGCAAGATTCATTCACCAGACAGGTGTTATGGAAGCTGCTGAAGGTTGTGAAATTCGGAGAAACGGTTTC
TTACCAGCAATTAGCAGCCCTGGCAGGCAACCCCAAAGCGGCTCGTGCAGTAGGAGGAGCAATGAGAAGC
AATCCGGTCCCCATCCTCATCCCCTGCCACAGGGTGGTTCGCAGTGACGGTGCCATCGGCCATTACTCCG
GAGGAGGGCAGGCTGTGAAGGAGTGGCTTCTGGCCCATGAGGGCATCCCGACCGGACAGCCAGCCTCCAA
GGGCTTGGGTCTGACTGGGACCTGGCTCAAGTCATCCTTCGAGTCGACCAGCTCTGAGCCGTCTGGCCGA
AAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

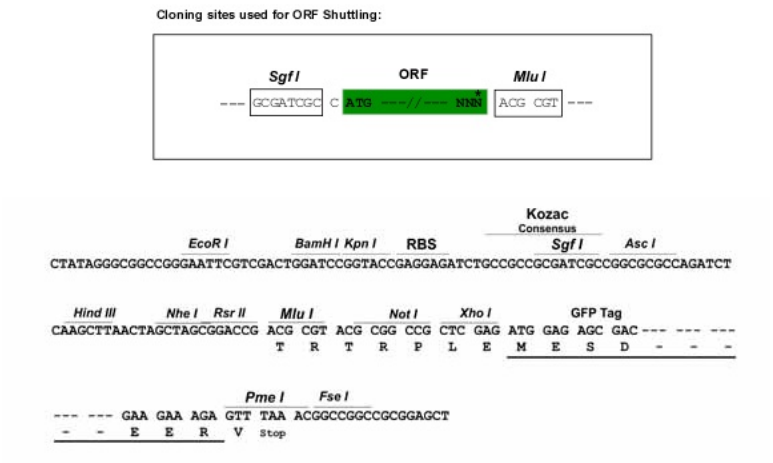
>MG202297 representing NM_008598
Red=Cloning site Green=Tags(s)

MAETCKMKYSVLDSPLGKMELSDCERGLHGIRLLSGKTPNTDPTEAPATPEVLGGPEGVPEPLVQCTAWL
EAYFREPAATEGLPLPALHHPVFQQDSFTRQVLWKLLKVVKFGETVSYQQLAALAGNPKAARAVGGAMRS
NPVPILIPCHRVVRSDGAIGHYSGGGQAVKEWLLAHEGIPTGQPASKGLGLTGTWLKSSFESTSSEPSGR
N

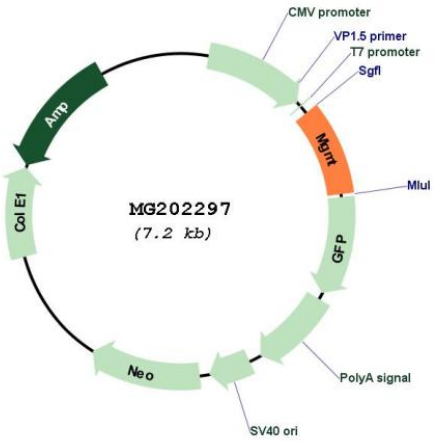
TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_008598

ORF Size: 633 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_008598.2, NP_032624.1
RefSeq Size:	857 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]