

Product datasheet for **MG204030**

Gnmt (NM_010321) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gnmt (NM_010321) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gnmt
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204030 representing NM_010321 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGGACAGCGTGTACCGTACCCGCTCCCTGGGGTGGCGGCCGAAGGGCTCCCGACCAGTATGCAG
ATGGGGAGGCCCGCACGTGTGGCAGCTGTACATCGGGGACACCCGCAGCCGTACCGCAGAGTACAAGGC
GTGGTTGCTTGGGCTGTGCGCCAGCACGGGTGCCACAGGGTGTGGACGTAGCCTGTGGCACAGGAGTG
GACTCCATCATGCTGGTGAAGAGGGCTTCAGCGTGATGAGCGTGGACGCCAGCGACAAGATGCTGAAAT
ATGCGCTTAAGGAGCGCTGGAACCGGAGGAAAGGCCATCCTTTGACAATTGGGTCAATTGAAGAAGCCAA
CTGGTTGACGCTGGACAAGATGTGCTTTCAGGAGATGGCTTTGATGCTGTATCTGCCTTGGGAACAGT
TTTGCTCACTTGCCAGACTGCAAAGGTGACCAGAGCGAGCACCGGCTGGAATAAAGAACATTGCAAGCA
TGGTGGCGCCCGGGGCCTGCTGGTGATCGACCACCGCAACTACGACTATATCCTCAGCACAGGCTGTGC
GCCCCGGGGAAGAACATCTACTATAAGAGTGACCTGACCAAGGACATTACGACGTCAGTACTGACAGTC
AACAAACAAGCCACATGGTAACCCTGGACTACACAGTGCAGGTGCCAGGCACTGGCAGAGATGGCTCTC
CTGGCTTCAGTAAGTCCGGCTCTTACTACCCACACTGTTTGGCGTCTTTCACGGAGTTGGTGGCAGC
AGCCTTTGGGGCAGGTGCCAGCACAGCGTCCTGGGTGACTTCAAGCCCTACAAGCCTGGCCAGGCTAC
GTTCCCTGCTACTTCATCCATGTGCTCAAGAAGACAGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204030 representing NM_010321
 Red=Cloning site Green=Tags(s)

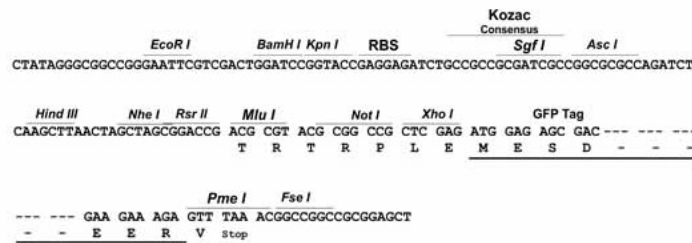
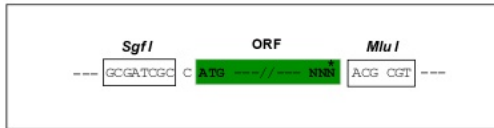
MVDSVYRTRSLGVAAEGLPDQYADGEAARVWQLYIGDTRSRTAEYKAWLLGLLRQHGCHRVLDVACGTGV
 DSIMLVEEGFSVMSVDASDKMLKYALKERWNRKPEPSFDNWVIEEANWLTLDKDLVSGDGFDAVICLGNS
 FAHLPDCKGDQSEHRLLELNKIASMVRPGLLVIDHRNYDYILSTGCAPPKNIYYKSDLTKDITTSVLT
 VNNKAHMVTLDTYVQVPGTGRDGSPPGSKFRLSYYPHCLASFTEL VRAAFGGRCQHSVLGDFKPYKPGQAY
 VPCYFIHVLKKT

TRTRPLE - GFP Tag - V

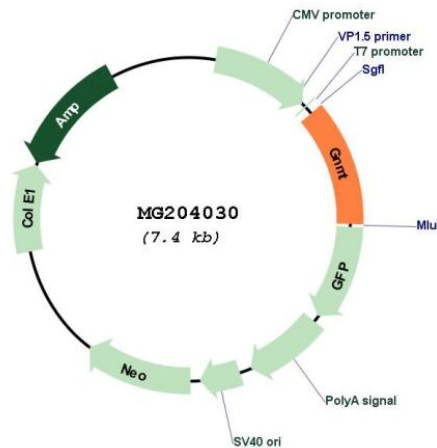
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_010321

ORF Size: 879 bp

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.
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:	<ol style="list-style-type: none">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_010321.1 , NP_034451.1
RefSeq Size:	1042 bp
RefSeq ORF:	882 bp
Locus ID:	14711
UniProt ID:	Q9QXF8
Cytogenetics:	17 C
Gene Summary:	Catalyzes the methylation of glycine by using S-adenosylmethionine (AdoMet) to form N-methylglycine (sarcosine) with the concomitant production of S-adenosylhomocysteine (AdoHcy). Possible crucial role in the regulation of tissue concentration of AdoMet and of metabolism of methionine (By similarity).[UniProtKB/Swiss-Prot Function]