OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR204030

Gnmt (NM_010321) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gnmt (NM_010321) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gnmt
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR204030 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTGGACAGCGTGTACCGTACCCGCTCCCTGGGGGTGGCGGCCGAAGGGCTCCCGGACCAGTATGCAG
ATGGGGAGGCCGCACGTGTGTGGCAGCTGTACATCGGGGACACCCGCAGCCGTACCGCAGAGTACAAGGC
GTGGTTGCTTGGGCTGTTGCGCCAGCACGGGTGCCACAGGGTGCTGGACGTAGCCTGTGGCACAGGAGTG
GACTCCATCATGCTGGTGGAAGAGGGCTTCAGCGTGATGAGCGTGGACGCCAGCGACAAGATGCTGAAAT
ATGCGCTTAAGGAGCGCTGGAACCGGAGGAAAGAGCCATCCTTTGACAATTGGGTCATTGAAGAAGCCAA
CTGGTTGACGCTGGACAAAGATGTGCTTTCAGGAGATGGCTTTGATGCTGTCATCTGCCTTGGGAACAGT
TTTGCTCACTTGCCAGACTGCAAAGGTGACCAGAGCGAGCACCGGCTGGAACTAAAGAACATTGCAAGCA
TGGTGCGGCCCGGGGGCCTGCTGGTGATCGACCACCGCAACTACGACTATATCCTCAGCACAGGCTGTGC
GCCCCCGGGGAAGAACATCTACTATAAGAGTGACCTGACCAAGGACATTACGACGTCAGTACTGACAGTC
AACAACAAAGCCCACATGGTAACCCTGGACTACACAGTGCAGGTGCCAGGCACTGGCAGAGATGGCTCTC
CTGGCTTCAGTAAGTTCCGGCTCTCTTACTACCCACACTGTTTGGCGTCTTTCACGGAGTTGGTGCGAGC
AGCCTTTGGGGGCAGGTGCCAGCACAGCGTCCTGGGTGACTTCAAGCCCTACAAGCCTGGCCAGGCCTAC
GTTCCCTGCTACTTCATCCATGTGCTCAAGAAGACAGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

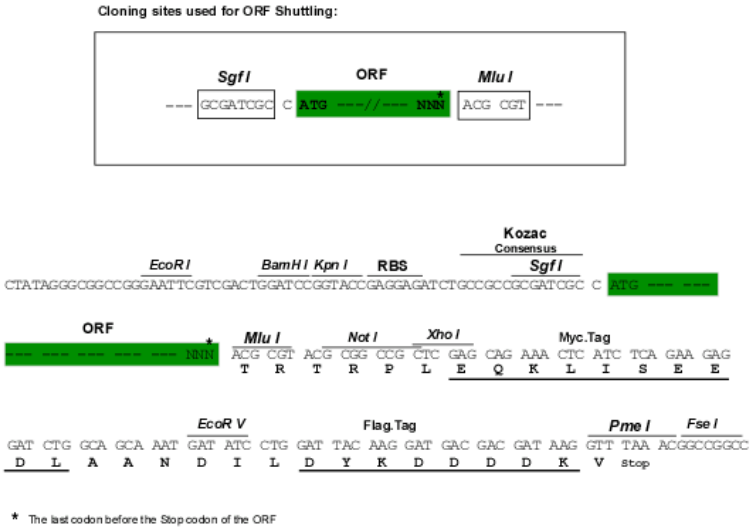
>MR204030 protein sequence
Red=Cloning site Green=Tags(s)

MVDSVYRTRSLGVAAEGLPDQYADGEAARVWQLYIGDTRSRTAEYKAWLLGLLRQHGCHRVLDVACGTGV
DSIMLVEEGFSVMSVDASDKMLKYALKERWNRRKEPSFDNWVIEEANWLTLDKDVLSGDGFDAVICLGNS
FAHLPDCKGDQSEHRLELKNIASMVRPGGLLVIDHRNYDYILSTGCAPPGKNIYYKSDLTKDITTSVLTV
NNKAHMVTLDYTVQVPGTGRDGSPGFSKFRLSYYPHCLASFTELVRAAFGGRCQHSVLGDFKPYKPGQAY
VPCYFIHVLKKTD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_010321

ORF Size: 882 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: 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

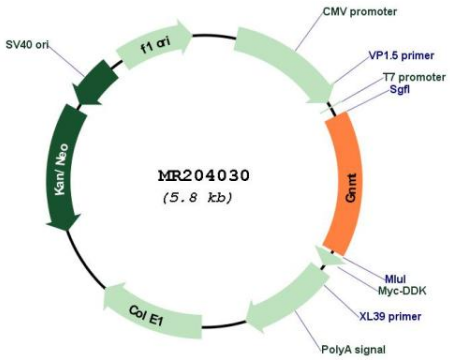
UniProt ID: Q9QXF8

Cytogenetics: 17 C

MW: 32.7 kDa

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]

Product images:



Circular map for MR204030