

## Product datasheet for **RR201968**

### Gnmt (NM\_017084) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gnmt (NM_017084) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gnmt
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR201968 representing NM_017084 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTGGACAGCGTGTACCGTACCCGCTCCCTGGGGTGGCGGCCGAAGGGATCCCCGACCAGTATGCGG  
ATGGGGAGGCCCGCACGTGTGGCAGCTGTACATCGGGGACACCCGCAGCCGTAAGTGCAGGTACAAGGC  
GTGGTTGCTTGGGCTGCTGCCAGCACGGGTGCCACCGGTGCTGGACGTGGCCTGTGGCACAGGAGTG  
GACTCGATTATGCTGGTGAAGAGGGCTTTAGCGTCACGAGTGTGGATGCCAGCGACAAGATGCTGAAAT  
ACGCACTGAAGGAGCGCTGGAACCGGAGGAAGGAGCCAGCCTTTGACAAGTGGGTATTGAAGAAGCCAA  
CTGGTTGACTCTGGACAAAGATGTGCCAGCAGGAGATGGCTTTGACGCTGTCTATCTGCCTTGGGAACAGT  
TTTGCTCACCTGCCGGACAGCAAAGGTGACCAGAGTGAGCACCGGCTGGCGCTAAAGAACATCGCAAGCA  
TGGTGGCGCCCGGGGCTGCTGGTCATCGACCACCGCAACTACGACTACATCCTCAGCACGGGCTGTGC  
ACCCCCAGGGAAGAACATCTACTATAAGAGTGACCTGACCAAGGACATTACGACGTCAGTGTGACAGTA  
AACAAACAAGCCACATGGTAACCCTGGACTACACAGTGCAGGTGCCAGGTGCTGGCAGAGATGGCGCTC  
CTGGCTTCAGTAAGTTTCGGCTCTTTACTACCCACACTGTTTGGCGTCTTTACGGAGTTGGTCCAAGA  
AGCCTTTGGGGCAGGTGCCAGCACAGCGTCTGGGTGACTTCAAGCCTTACAGGCCCGCCAGGCCTAC  
GTTCCCTGCTACTTCATCCACGTGCTCAAGAAGACAGGCGTTCCTGCTACTTCCACGTGCTCAAGA  
AGACAGGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR201968 representing NM\_017084  
 Red=Cloning site Green=Tags(s)

MVDSVYRTRSLGVAEEGIPDQYADGEAARVWQLYIGDTRSRTAEYKAWLLGLLRQHGHCHRVLDVACGTGV  
 DSIMLVEEGFSVTSVDASDKMLKYALKERWNRKPEAFDKWVIEEANWLTLDKDVPAAGDFDAVICLGNS  
 FAHLPSDKGDQSEHRLALKNIASMRPGGLLVIDHRNYDYILSTGCAPPKNIYYKSDLTKDITTSVLT  
 TVNNKAHMVTLDTYVQVPGAGRDGAPGFSKFRLSYYPHCLASFTEL VQEAFGGRCQHSVLGDFKPYRPGQAY  
 VPCYFIHVLKKTGVPCYFIHVLKKTG

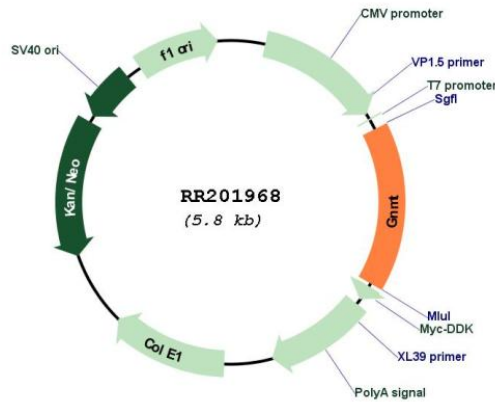
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_017084

<b>ORF Size:</b>	879 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq Size:</b>	988 bp
<b>RefSeq ORF:</b>	882 bp
<b>Locus ID:</b>	25134
<b>UniProt ID:</b>	<a href="#">P13255</a>
<b>Cytogenetics:</b>	9q12
<b>MW:</b>	32.5 kDa
<b>Gene Summary:</b>	catalyzes the conversion of S-adenosyl-L-methionine and glycine to S-adenosyl-L-homocysteine and sarcosine; involved in S-adenosylmethionine and folate metabolism [RGD, Feb 2006]