

## Product datasheet for **SC125540**

### GNMT (NM\_018960) Human Untagged Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | GNMT (NM_018960) Human Untagged Clone   |
| Tag:                      | Tag Free  |
| Symbol:                   | GNMT  |
| Synonyms:                 | HEL-S-182mP   |
| Mammalian Cell Selection: | None  |
| Vector:                   | <u>pCMV6-XL4</u>  |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| Fully Sequenced ORF:      | >OriGene ORF within SC125540 sequence for NM_018960 edited (data generated by NextGen Sequencing) |

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ATGGTGGACAGCGTGTACCGGACCCGCTCCCTGGGGTGGCGGCCGAAGGGCTCCCGGAC
CAGTACGCGGACGGGAGGCGCGCGCTGTGGCAGCTGTATATCGGAGACACCCGAGC
CGCACCGCGAGTACAAGGCATGGCTGCTTGGGCTGCTGCGCCAGCACGGCTGCCAGCGG
GTGCTCGACGTAGCCTGTGGCACTGGGGTGGACTCCATTATGCTGGTGAAGAGGGCTTC
AGTGTGACGAGTGTGGATGCCAGTGACAAGATGCTGAAGTATGCACTTAAGGAGCGCTGG
AACCGGCGGCACGAGCCCGCCTTCGACAAGTGGGTATCGAAGAAGCCAAGTGGATGACT
CTGGACAAAGATGTGCCAGTCAGCAGAGGGTGGCTTTGATGCTGTCATCTGCCTTGA
AACAGTTTCGCTCACTTGCCAGACTGCAAAGGGGACCAGAGTGAGCACCGGCTGGCGCTG
AAAACATTGCGAGCATGGTGCGGGCAGGGGCCTACTGGTCATTGATCATCGCAACTAC
GACCACATCCTCAGTACAGGCTGTGCACCCCAGGAAGAACATCTACTATAAGAGTGAC
TTGACCAAGGACGTCACAACATCAGTGCTGATAGTGAACAACAAGGCCACATGGTGACC
CTGGACTATACGGTGCAGGTGCCGGGGCTGGCCAGGATGGCTCTCCTGGCTTGAGTAAG
TTCCGGCTCTCCTACTACCCACTGTCTGGCATCCTTACGGAGCTGCTCCAAGCAGCC
TTCGGAGTAAGTGCCAGCACAGCGTCTGGGCGACTTCAAGCCTTACAAGCCAGGCCAA
ACCTACATTCCCTGCTACTTCATCCACGTGCTCAAGAGGACAGACTGA
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Clone variation with respect to NM\_018960.4



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|                                     |   |
|-------------------------------------|---|
| <b>5' Read Nucleotide Sequence:</b> | >OriGene 5' read for NM_018960 unedited<br>GACTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGCAGGATGGTGGACAGCGTG<br>TACCGGACCCGCTCCCTGGGGTGGCGGCCGAAGGGCTCCCGGACCAGTACGCGGACGGG<br>GAGGCGGCGCGCTGTGGCAGCTGTATATCGGAGACACCCGACGCCACCGCCGAGTAC<br>AAGGCATGGCTGCTTGGGCTGCTGCCAGCACGGCTGCCAGCGGGTCTCGACGTAGCC<br>TGTGGCACTGGGTGGACTCCATTATGCTGGTGAAGAGGGCTTCAGTGTGACGAGTGTG<br>GATGCCAGTGACAAGATGCTGAAGTATGCACTTAAGGAGCGCTGGAACCGCGGCACGAG<br>CCGCCTTCGACAAGTGGGTCATCGAAGAAGCCAACCTGGATGACTCTGGACAAAGATGTG<br>CCCCAGTCAGCAGAGGGTGGCTTTGATGCTGTCATCTGCCTTGGAAACAGTTTCGCTCAC<br>TTGCCAGACTGCAAAGGGGACCAGAGTGAGCACCGGCTGGCGCTGAAAAACATTGCGAGC<br>ATGGTGCGGGCAGGGGGCCTACTGGTCATTGATCATCGCAACTACGACCACATCCTCAGT<br>ACAGGCTGTGCACCCNCAGGGAAGAACATCTACTATAAGAGTGACTTGACCAAGGACGTC<br>ACAACATCAGTGTGATAGTGAACAACANGGGCCACATGGTGACCCTGGACTATACNGTG<br>CAAGTGCCGNGCTGGCCAANNATGCTCTCTGGCTTGAGTAAGTTNCGGCTCTCTACT<br>ACCANACCTGGTNGGAATCTTCAGGGAGCTGCTCAGCAACCTTCGAAGGTAAGTGCACN<br>CAGCGTCTGGCGATTNAGCTTTAAAGCAAGGCAAAACTAATCCNTG |
| <b>Restriction Sites:</b>           | Please inquire  |
| <b>ACCN:</b>                        | NM_018960   |
| <b>Insert Size:</b>                 | 1200 bp   |
| <b>OTI Disclaimer:</b>              | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).  |
| <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:</b>                      | <a href="#">NM_018960.4</a> , <a href="#">NP_061833.1</a>   |
| <b>RefSeq Size:</b>                 | 1091 bp   |
| <b>RefSeq ORF:</b>                  | 888 bp  |
| <b>Locus ID:</b>                    | 27232   |
| <b>UniProt ID:</b>                  | <a href="#">Q14749</a>  |
| <b>Cytogenetics:</b>                | 6p21.1  |
| <b>Protein Families:</b>            | Druggable Genome  |
| <b>Protein Pathways:</b>            | Glycine, serine and threonine metabolism  |

**Gene Summary:**

The protein encoded by this gene is an enzyme that catalyzes the conversion of S-adenosyl-L-methionine (along with glycine) to S-adenosyl-L-homocysteine and sarcosine. This protein is found in the cytoplasm and acts as a homotetramer. Defects in this gene are a cause of GNMT deficiency (hypermethioninemia). Alternative splicing results in multiple transcript variants. Naturally occurring readthrough transcription occurs between the upstream CNPY3 (canopy FGF signaling regulator 3) gene and this gene and is represented with GeneID:107080644. [provided by RefSeq, Jan 2016]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (1).