

# Recombinant Full Length Human DNMT3L Protein, GST-tagged

**Cat. No.** DNMT3L-4053HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |   |
|-------------------------|---|
| <b>Product Overview</b> | Human DNMT3L full-length ORF ( AAH02560.1, 1 a.a. - 386 a.a.) recombinant protein with GST-tag at N-terminal.   |
| <b>Species</b>          | Human   |
| <b>Source</b>           | In Vitro Cell Free System   |
| <b>ProteinLength</b>    | 386 amino acids   |
| <b>Description</b>      | <p>CpG methylation is an epigenetic modification that is important for embryonic development, imprinting, and X-chromosome inactivation. Studies in mice have demonstrated that DNA methylation is required for mammalian development. This gene encodes a nuclear protein with similarity to DNA methyltransferases, but is not thought to function as a DNA methyltransferase as it does not contain the amino acid residues necessary for methyltransferase activity. However, it does stimulate de novo methylation by DNA cytosine methyltransferase 3 alpha and is thought to be required for the establishment of maternal genomic imprints. This protein also mediates transcriptional repression through interaction with histone deacetylase 1. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2012]</p> |
| <b>Molecular Mass</b>   | 69.9 kDa  |
| <b>AA Sequence</b>      | MAAIPALDPEAEPSMDVILVGSSSELSSSVSPGTGRDLIAYEVKANQRNIEDICICCGSLQVHTQHPLFEGGICAPCKDKFLDALFLYDDDGYQSYCSICCSGETLLICGNPDCTRC   |

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YCFECVDSL VGPGTSGKVHAMS NWVCYLCLPSSRSGLLQRRRKWRSQ LKAFYDRE  
 SENPLEMFETVPVWRRQPVRVLSLFEDIKKELTSLGFLESGSDPGQLKHVV DVTDTV  
 RKDVEEWGPFDLVYGATPPLGHTCDRPPSWYLFQFHRL LQYARPKPGSPGPF FW  
 MFVDNLVLNKEDLDVASRFLEMEPVTIPDVHGGSLQNAVRVWSNIPAIRSRHWALVS  
 EEELSLLAQNKQSSKLA AKWPTKLVKNCFLPLREYFKYFSTELTSSL

**Applications**  
 Enzyme-linked Immunoabsorbent Assay  
 Western Blot (Recombinant protein)  
 Antibody Production  
 Protein Array

**Notes**  
 Best use within three months from the date of receipt of this protein.

**Storage**  
 Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**  
 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

**Gene Name**  
 DNMT3L DNA (cytosine-5-)-methyltransferase 3-like [ Homo sapiens ]

**Official Symbol**  
 DNMT3L

**Synonyms**  
 DNMT3L; DNA (cytosine-5-)-methyltransferase 3-like; DNA (cytosine-5)-methyltransferase 3-like; cytosine 5 methyltransferase 3 like protein; human cytosine 5 methyltransferase 3 like protein; MGC1090; cytosine-5-methyltransferase 3-like protein; human cytosine-5-methyltransferase 3-like protein;

**Gene ID**  
 29947

**mRNA Refseq**  
 NM\_013369

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|                       |           |
|-----------------------|-----------|
| <b>Protein Refseq</b> | NP_037501 |
| <b>MIM</b>            | 606588    |
| <b>UniProt ID</b>     | Q9UJW3    |

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