

Product datasheet for **SC110409**

DNMT3L (NM_175867) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DNMT3L (NM_175867) Human Untagged Clone
Tag:	Tag Free
Symbol:	DNMT3L
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC110409 sequence for NM_175867 edited (data generated by NextGen Sequencing)

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ATGGCGGCCATCCCAGCCCTGGACCCAGAGGCCGAGCCCAGCATGGACGTGATTTTGGTG
GGATCCAGTGAGCTCTCAAGCTCCGTTTACCCGGGACAGGCAGAGATCTTATTGCATAT
GAAGTCAAGGCTAACCAGCGAAATATAGAAGACATCTGCATCTGCTGCGGAAGTCTCCAG
GTTACACACAGCACCCCTCTGTTTGAGGGAGGGATCTGCGCCCATGTAAGGACAAGTTC
CTGGATGCCCTCTTCTGTACGACGATGACGGGTACCAATCCTACTGCTCCATCTGCTGC
TCCGGAGAGACGCTGCTCATCTGCGGAAACCCTGATTGCACCCGATGCTACTGCTTCGAG
TGTGTGGATAGCTGGTCCGCCCCGGGACCTCGGGGAAGGTGCACGCCATGAGCAACTGG
GTGTGCTACCTGTGCCTGCCCTCCTCCCGAAGCGGGCTGCTGCAGCGTCGGAGGAAGTGG
CGCAGCCAGCTCAAGGCCTTCTACGACCGAGAGTCCGAGAATCCCCTTGAGATGTTTCGAA
ACCGTGCCTGTGTGGAGGAGACAGCCAGTCCGGGTGCTGTCCCTTTTGAAGACATCAAG
AAAGAGCTGACGAGTTTGGGCTTTTGGAAAGTGGTTCTGACCCGGGACAACCTGAAGCAT
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TTCTGGAGATGGAGCCAGTACCATCCCAGATGTCCACGGCGGATCCTTGCAGAATGCT
GTCCGCGTGTGGAGCAACATCCCAGCCATAAGGAGCAGGCACTGGGCTCTGGTTTCGGAA
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ACCAAGCTGGTGAAGAACTGCTTCTCCCCTAAGAGAATATTTCAAGTATTTTTCAACA
GAACCTCACTTCTCTTTATAA

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Clone variation with respect to NM_175867.1
832 a=>g



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_175867 unedited
 GGAACCTGAGAATTGTAACACCCTTATATAGGCGGCCGGAATTCGCACGAGGTGGGCC
 TGGNACCTTCCAATCATCTTTGCTGCGCCGTCCTCGTTCTGGCCAGTCCTCCCCGG
 GGACCCTGAGCCTGGAAGCCCCGGACCCTGGAACCTGAACCCACCAGCTGGCTGTACC
 CGGAGCCGTGGCAGCAGCCCTCATCCCCATGGCGGCCATCCAGCCCTGGACCCAGAGGC
 CGAGCCCAGCATGGACGTGATTTTGGTGGGATCCAGTGAGCTCTAAGCTCCGTTTACC
 CGGGACAGGCAGAGATCTTATTGCATATGAAGTCAAGGCTAACCAGCGAAATATAGAAGA
 CATCTGCATCTGCTGCGGAAGTCTCCAGTTTACACACAGCACCCCTCTGTTTGAGGGAGG
 GATCTGCGCCCATGTAAGGACAAGTTCCTGGATGCCCTCTTCTGTACGACGATGACGG
 GTACCAATCCTACTGCTCCATCTGCTGCTCCGGAGAGACGCTGCTCATCTGCGGAAACCC
 TGATTGCACCCGATGCTACTGCTTCGAGTGTGTGGATAGCCTGGTCGGCCCCGGACCTC
 GGGGAAGGTGCACGCCATGAGCAACTGGGTGTGCTACCTGTGCCTGCCGTCTCCCGAAG
 CGGGCTGCTGCAGCGTCGGAGGAAGTGGCGCAGCCAGCTCAAGGCCTTCTACGACCGAGA
 GTCGGAGAATCCCTTGAGATGTTGAAACCGTGCCTGTGTGGAGGAGACAGCCAGTCCG
 GGTGCTGTNCCTTTTGAAGACATCAAGAAGACTGACGAGTTTGGGCTTTTGGAAAAGT
 GGTCTGACCCGGGACACTGAAGCATGTGGTTGATGTCACANACACGTGAGGAAAGATGT
 GNA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_175867 unedited
 CCTTGCGCCATTGGCGATGGTCAACTTGCCAGGGCCAGGAAAGCACTGGGGNAGGGTCAC
 AGGGCTGCCACCCGGGTTCTGTTTCAAGAAACAGCTATGACCGCGCCGCAATCTATAGTC
 GAGTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTGTTCAAAGAAAAGTCTTTTTCTTACAGT
 ATAGTGACTCTTTATAAAGAGGAAGTGAGTTCTGTTGAAAAATACTTGAATTTTCTCT
 TAGGGGGAAAAAGCATTCTTCCAGCTTGGTGGGCCACTTGGCCGCGAGCTTCGAGCT
 CTGCTTGTCTGGGCCAGCAGGGACATTTCTTCTTCCGAAACCAGAGCCAGTGCCTGCT
 CCTTATGGCTGGGATGTTGCTCCACACGCGGACAGCATTCTGCAAGGCTCCGCCGTGGAC
 ATCTGGGATGGTACTGGCTCCCTCTCCAGGAAGCGAGATGCGACGTCCAGGTCTTCTT
 GTTCAGCACCAGATTGTCCAGAACATCCAAAAAAGGGCCCGGGGCTGCCTGGCTTGGG
 CCGTGCCTACTGCAGGAGCCGTGGAACGGAACAGGTACCAGCTGGGAGGACGGTCACA
 GGTGTGGCCAGGAGAGGTGTGGCGCCGTACACAATATCGAAGGGTCCCCTCCTCCA
 CATCTTCTCAGTGTGCTGTGACATCAACCACATGCTTCAGTTGTCCCGGTCAAATC
 CACTTTCAAAAAGCCAAACTCGTCAGCTCTTCTTGTGCTTCAAAAAGGGACAGCA
 CCCGGACTGGCTGTCTCTCCACAGGCACGGTTTCAAACCTAAAGGGGATTCTCGACTC
 TCGGTCGTAAGGCCTTGAAGTGGCTGCNCCACTCTCCGAGCTGCACAGCCCGTTCCGG
 AGGACG

Restriction Sites:

Please inquire

ACCN:

NM_175867

Insert Size:

1300 bp

OTI Disclaimer:

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).

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_175867.1](#), [NP_787063.1](#)

RefSeq Size: 1702 bp

RefSeq ORF: 1161 bp

Locus ID: 29947

UniProt ID: [Q9UJW3](#)

Cytogenetics: 21q22.3

Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: Cysteine and methionine metabolism, Metabolic pathways

Gene Summary: 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]

Transcript Variant: This variant (2) uses an alternate in-frame acceptor splice site at the 3' terminal exon compared to variant 1, which results in an isoform (2) that is 1 aa shorter than isoform 1.