

Product datasheet for **MC222141**

Dnmt3b (NM_001122997) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dnmt3b (NM_001122997) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dnmt3b
Synonyms:	MmullIB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC222141 representing NM_001122997
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGGGAGACAGCAGACATCTGAATGAAGAAGAGGGTGCCAGCGGGTATGAGGAGTGCATTATCGTTA
 ATGGGAACTTCAGTGACCAGTCCCTCAGACACGAAGGATGCTCCCTCACCCCAAGTCTTGGAGGCAATCTG
 CACAGAGCCAGTCTGCACACCAGAGACAGAGGCCGAGGTCAAGCTCCCGGCTGTCTAAGAGGGAGGTC
 TCCAGCCTTCTGAATTACACGCAGGACATGACAGGAGATGGAGACAGAGATGATGAAGTAGATGATGGGA
 ATGGCTCTGATATTCTAATGCCAAAGCTCACCCGTGAGACCAAGGACACCAGGACGCGCTCTGAAAGCCC
 GGCTGTCCGAACCCGACATAGCAATGGGACCTCCAGCTTGAGAGGGCAAAGAGCCTCCCCAGAATCACC
 CGAGGTCGGCAGGGCCGCCACCATGTGCAGGAGTACCCTGTGGAGTTTCCGGCTACCAGGTCTCGGAGAC
 GTCGAGCATCGTCTTCAGCAAGCAGCCATGGTCATCCCCTGCCAGCGTCGACTTCATGGAAGAAGTGAC
 ACCTAAGAGCGTCAGTACCCCATCAGTTGACTTGAGCCAGGATGGAGATCAGGAGGTATGGATACCACA
 CAGGTGGATGCAGAGAGCAGAGATGGAGACAGCACAGAGTATCAGGATGATAAAGAGTTTGGAAAGGTTG
 ACCTCGTGTGGGAAAGATCAAGGGCTTCTCCTGGTGGCCTGCCATGGTGGTGTCTGAAAGGCCACCTC
 CAAGCGACAGGCCATGCCCGAATGCGCTGGGTACAGTGGTTTGGTGATGGCAAGTTTTCTGAGATCTCT
 GCTGACAAACTGGTGGCTCTGGGGCTGTTAGCCAGCACTTAACTGGCTACCTTCAATAAGCTGGTTT
 CTTATAGGAAGGCCATGTACCACACTCTGGAGAAAAGCCAGGGTTCGAGCTGGCAAGACCTTCTCCAGCAG
 TCCTGGAGAGTCACTGGAGGACCAGCTGAAGCCCATGCTGGAGTGGGCCACGGTGGCTTCAAGCCTACT
 GGGATCGAGGGCCCAAACCCAAAGAAGCAACCAGTGGTTAATAAGTGAAGTGCCTGCTTCCAGACA
 GTAGAACTTAGAACCCAGGAGACGCGAGAACAAGTGAAGACGCACAACCAATGACTCTGCTGCTTC
 TGAGTCCCCCACCAGCGCCTCAAGACAAATAGCTATGGCGGGAAGGACCGAGGGGAGGATGAGGAG
 AGCCGAGAACGGATGGCTTCTGAAGTACCAACAACAAGGGCAATCTGGAAGACCCTGTTTGTCTGTG
 GAAAGAAGAACCCTGTGTCTTCCACCCCTCTTTGAGGGTGGGCTCTGTGAGAGTTGCCGGATCGCTT
 CCTAGAGCTCTTCTACATGTATGATGAGGACGGCTATCAGTCTACTGCACCGTGTGCTGTGAGGGCCGT
 GAACTGCTGTGTGAGTAAACAAGCTGCTGCAGATGCTTCTGTGTGGAGTGTCTGGAGGTGCTGGTGG
 GCGCAGGCACAGCTGAGGATGCCAAGCTGCAGGAACCTGGAGTGTATATGTGCTCCCTCAGCGCTG
 CCATGGGGTCTCCGACGCAGGAAAGATTGGAACATGCGCCTGCAAGACTTCTTCACTACTGATCCTGAC
 CTGGAAGATTTCAAGAGCCACCAAGTTGTACCCAGCAATTCCTGCAGCCAAAAGGAGGCCATTAGAG
 TCCTGTCTCTGTTTATGGAATTGCAACGGGGTACTTGGTGTCTAAGGAGTTGGGTATTAAGTGGAAAA
 GTACATTGCCCTCCGAAGTCTGTGCAAGTCCATCGCTGTGGGAAGTGTAAAGCATGAAGGCCAGATCAAA
 TATGTCAATGACGTCGCGAAAAATCACCAGAAAAATATTGAAGAGTGGGGCCCGTTTCGACTTGGTGATTG
 GTGGAAGCCCATGCAATGATCTCTAAGCTCAATCCTGCCCCGAAAGGTTTATATGAGGGCACAGGAAG
 GCTCTTCTCGAGTTTACCCTTGTGAATTATACCCGCCCCAAGGAGGGGACAAACCGTCCATCTTCT
 TGGATGTTGAGAAATGTTGTGGCCATGAAAGTGAATGACAAGAAAGACATCTCAAGATTCCTGGCATGTA
 ACCCAGTGATGATCGATGCCATCAAGGTGTCTGCTGCTCACAGGGCCCGTACTTCTGGGTAACTTACC
 CGGAATGAACAGGCCCGTGTGGCTTCAAAGAATGATAAGCTCGAGCTGCAGGACTGCCTGGAGTTCAGT
 AGGACAGCAAAGTTAAAGAAAGTGCAGACAATAACCACCAAGTCAAGTCCATCAGACAGGGCAAAAACC
 AGCTTTTCCCTGTAGTCATGAATGGCAAGGACGACGTTTTGTGGTGCCTGAGCTCGAAAGGATCTTCGG
 CTTCCCTGCTCACTACACGGACGTGTCCAACATGGGCCGCGCGCCCGTCAAGAGCTGCTGGCAGGTCC
 TGGAGTGTACCGTTCATCAGACACCTGTTTCCCCCTGAAGGACTACTTGCCTGTGA**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAAGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja2238_b08.zip

Restriction Sites: SgfI-MluI

ACCN: NM_001122997

Insert Size:	2583 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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_001122997.2 , NP_001116469.1
RefSeq Size:	4229 bp
RefSeq ORF:	2583 bp
Locus ID:	13436
Cytogenetics:	2 H1
Gene Summary:	<p>This is one of two related genes encoding de novo DNA methyltransferases, which are responsible for the establishment of DNA methylation patterns in embryos. Loss of function of this gene results in severe developmental defects and loss of viability. Mutation of the related gene in humans causes immunodeficiency-centromeric instability-facial anomalies (ICF) syndrome. There is a pseudogene for this gene located adjacent to this gene in the same region of chromosome 2. Alternatively spliced transcript variants encoding multiple isoforms have been observed. [provided by RefSeq, Nov 2012]</p> <p>Transcript Variant: This variant (5) encodes the longest isoform (5).</p>