

## Product datasheet for **MC228916**

### **Dnmt3b (NM\_001271747) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Dnmt3b (NM_001271747) 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:** >MC228916 representing NM\_001271747  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAAGGGAGACAGCAGACATCTGAATGAAGAAGAGGGTGCCAGCGGGTATGAGGAGTGCATTATCGTTA  
 ATGGGAACCTCAGTGACCAGTCCCTCAGACACGAAGGATGCTCCCTCACCCCAAGTCTTGGAGGCAATCTG  
 CACAGAGCCAGTCTGCACACCAGAGACAGAGGCCGAGGTCAAGCTCCCGGCTGTCTAAGAGGGAGGTC  
 TCCAGCCTTCTGAATTACACGCAGGACATGACAGGAGATGGAGACAGAGATGATGAAGTAGATGATGGGA  
 ATGGCTCTGATATTCTAATGCCAAAGCTCACCCGTGAGACCAAGGACACCAGGACGCGCTCTGAAAGCCC  
 GGCTGTCCGAACCCGACATAGCAATGGGACCTCCAGCTTGGAGAGGCAAAGAGCCTCCCCAGAATCACC  
 CGAGGTCGGCAGGGCCGCCACCATGTGCAGGAGTACCCTGTGGAGTTTCCGGCTACCAGGTCTCGGAGAC  
 GTCGAGCATCATCTTCAGCAAGCAGCCATGGTCATCCCCTGCCAGCGTCGACTTCATGGAAGAAGTGAC  
 ACCTAAGAGCGTCAGTACCCCATCAGTTGACTTGAGCCAGGATGGAGATCAGGAGGTATGGATACCACA  
 CAGGTGGATGCAGAGAGCAGAGATGGAGACAGCACAGAGTATCAGGATGATAAAGAGTTTGGAAAGGTTG  
 ACCTCGTGTGGGAAAGATCAAGGGCTTCTCCTGGTGGCCTGCCATGGTGGTGTCTCTGAAAGCCACCTC  
 CAAGCGACAGGCCATGCCCGAATGCGCTGGGTACAGTGGTTTGGTATGGCAAGTTTTCTGAGATCTCT  
 GCTGACAAACTGGTGGCTCTGGGCTGTTAGCCAGCACTTAACTCTGGTACCTTCAATAAGCTGGTTT  
 CTTATAGGAAGGCCATGTACCACACTCTGGAGAAAAGCCAGGGTTCGAGCTGGCAAGACCTTCTCCAGCAG  
 TCCTGGAGAGTCACTGGAGGACCAGCTGAAGCCCATGCTGGAGTGGGCCACGGTGGCTTCAAGCCTACT  
 GGGATCGAGGGCCTCAAACCCAAGAAGCAACCAGAGAACAAAAGTGAAGACGCACAACCAATGACT  
 CTGCTCTTCTGAGTCCCCCACCACAGCGCCTCAAGACAATAGCTATGGCGGGAAGGACCGAGGGGA  
 GGATGAGGAGAGCCGAGAACGGATGGCTTCTGAAGTACCAACAACAAGGGCAATCTGGAAGACCGCTGT  
 TTGTCTGTGAAAGAAGAACCCTGTGTCTTCCACCCCTCTTTGAGGGTGGGCTCTGTGAGAGTTGCC  
 GGGATCGTCTCTAGAGCTCTTCTACATGTATGATGAGGACGGCTATCAGTCTACTGCACCGTGTGCTG  
 TGAGGGCCGTGAAGTGTGCTGTGCAGTAACACAAGCTGCTGCAGATGCTTCTGTGTGGAGTGTCTGGAG  
 GTGCTGGTGGGCGCAGGCACAGCTGAGGATGCCAAGCTGCAGGAACCCTGGAGTGTCTATATGTGCCTCC  
 CTCAGCGTCCCATGGGGTCTCCGACGCAGGAAAGATTGGAACATGCGCCTGCAAGACTTCTTCACTAC  
 TGATCCTGACCTGGAAGAATTTGAGCCACCAAGTTGTACCCAGCAATTCCTGCAGCCAAAAGGAGGCCC  
 ATTAGAGTCTGTCTCTGTTTGTGGAATTGCAACGGGGTACTTGGTGTCAAGGAGTTGGGTATTAAG  
 TGGAAAAGTACATTGCCTCCGAAGTCTGTGCAGAGTCCATCGCTGTGGAACTGTTAAGCATGAAGGCCA  
 GATCAAATATGTCAATGACGTCCGGAAAATCACAAGAAAAATATTGAAGAGTGGGGCCCGTTGCACTTG  
 GTGATTGGTGGAAAGCCATGCAATGATCTCTTAACGTCAATCCTGCCCGCAAAGTTTTATATGAGGGCA  
 CAGGAAGGCTCTTCTCGAGTTTTACCCTTGTGAATTATACCCGCCCAAGGAGGGCGACAACCGTCC  
 ATCTTCTGGATGTTGAGAAATGTTGTGGCCATGAAAGTGAATGACAAGAAAGACATCTCAAGATTCCTG  
 GCATGTAACCCAGTGTGATCGATGCCATCAAGGTGTCTGCTGCTCACAGGGCCCGTACTTCTGGGGTA  
 ACCTACCCGGAATGAACAGGATCTTCGGCTTCCCTGCTCACTACACGGACGTGTCCAACATGGGCCGCGG  
 CGCCCGTCAGAAGCTGTGGCAGGTCTGGAGTGTACCGGTATCAGACACCTGTTTCCCCCTTGAAG  
 GACTACTTTGCCGTGAATAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_001271747  
**Insert Size:** 2331 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>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_001271747.1</a> , <a href="#">NP_001258676.1</a>
<b>RefSeq Size:</b>	3977 bp
<b>RefSeq ORF:</b>	2331 bp
<b>Locus ID:</b>	13436
<b>UniProt ID:</b>	<a href="#">O88509</a>
<b>Cytogenetics:</b>	2 H1
<b>Gene Summary:</b>	<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 (9) contains multiple differences in the coding region, but maintains the reading frame, compared to variant 5. The encoded isoform (3, also known as Dnmt3b3) is shorter than isoform 5. Variants 3 and 9 encode the same isoform (3).</p>