

## Product datasheet for **MC221688**

### **Dnmt3b (NM\_001003963) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Dnmt3b (NM_001003963) 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:** >MC221688 representing NM\_001003963  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAAGGGAGACAGCAGACATCTGAATGAAGAAGAGGGTGCCAGCGGGTATGAGGAGTGCATTATCGTTA  
 ATGGGAACTTCAGTGACCAGTCCCTCAGACACGAAGGATGCTCCCTCACCCCAAGTCTTGAGGCAATCTG  
 CACAGAGCCAGTCTGCACACCAGAGACAGAGGCCGAGGTCAAGCTCCCGGCTGTCTAAGAGGGAGGTC  
 TCCAGCCTTCTGAATTACACGCAGGACATGACAGGAGATGGAGACAGAGATGATGAAGTAGATGATGGGA  
 ATGGCTCTGATATTCTAATGCCAAAGCTCACCCGTGAGACCAAGGACACCAGGACGCGCTCTGAAAGCCC  
 GGCTGTCCGAACCCGACATAGCAATGGGACCTCCAGCTTGAGAGGGCAAAGAGCCTCCCCAGAATCACC  
 CGAGGTCGGCAGGGCCGCCACCATGTGCAGGAGTACCCTGTGGAGTTTCCGGCTACCAGGCTCGGAGAC  
 GTCGAGCATCATCTTCAGCAAGCAGCCATGGTCATCCCCTGCCAGCGTCGACTTCATGGAAGAAGTGAC  
 ACCTAAGAGCGTCAGTACCCCATCAGTTGACTTGAGCCAGGATGGAGATCAGGAGGTATGGATACCACA  
 CAGGTGGATGCAGAGAGCAGAGATGGAGACAGCACAGAGTATCAGGATGATAAAGAGTTTGGAAAGGTTG  
 ACCTCGTGTGGGAAAGATCAAGGGCTTCTCCTGGTGGCCTGCCATGGTGGTGTCTGGAAGGCCACCTC  
 CAAGCGACAGGCCATGCCCGAATGCGCTGGGTACAGTGGTTTGGTGATGGCAAGTTTTCTGAGATCTCT  
 GCTGACAAACTGGTGGCTCTGGGGCTGTTAGCCAGCACTTAACTGGCTACCTTCAATAAGCTGGTTT  
 CTTATAGGAAGGCCATGTACCACACTCTGGAGAAAAGCCAGGGTTCGAGCTGGCAAGACCTTCTCCAGCAG  
 TCCTGGAGAGTCACTGGAGGACAGCTGAAGCCCATGCTGGAGTGGGCCACGGTGGCTTCAAGCCTACT  
 GGGATCGAGGGCCTCAAACCCAAAGAAGCAACCAGTGGTTAATAAGTCGAAGGTGCGTCGTTCCAGACA  
 GTAGGAACCTAGAACCCAGGAGACGCGAGAACAAGTGAAGACGCACAACCAATGACTCTGCTGCTTC  
 TGAGTCCCCCCCACCAAGCGCCTCAAGACAAATAGCTATGGCGGGAAGGACCGAGGGGAGGATGAGGAG  
 AGCCGAGAACGGATGGCTTCTGAAGTACCAACAACAAGGGCAATCTGGAAGACCCTGTTTGTCTGTG  
 GAAAGAAGAACCCTGTGTCTTCCACCCCTCTTTGAGGGTGGGCTCTGTGAGAGTTGCCGGATCGCTT  
 CCTAGAGCTCTTCTACATGTATGATGAGGACGGCTATCAGTCTACTGCACCGTGTGCTGTGAGGGCCGT  
 GAACTGCTGTGTGCAGTAACACAAGCTGCTGCAGATGCTTCTGTGTGGAGTGTCTGGAGGTGCTGGTGG  
 GCGCAGGCACAGCTGAGGATGCCAAGCTGCAGGAACCTGGAGTGTATATGTGCCTCCCTCAGCGCTG  
 CCATGGGGTCTCCGACGCAGGAAAGATTGGAACATGCGCCTGCAAGACTTCTTCACTACTGATCCTGAC  
 CTGGAAGAAATTTGAGCCACCAAGTTGTACCCAGCAATTCCTGCAGCCAAAAGGAGGCCATTAGAGTCC  
 TGCTCTGTTTGTGAAATTGCAACGGGTAATGGTGTCAAGGAGTTGGGTATTAAAGTGGAAAAGTA  
 CATTGCCTCCGAAGTCTGTGCAGAGTCCATCGCTGTGGGAACTGTTAAGCATGAAGGCCAGATCAATAT  
 GTCAATGACGTCCGAAAATCACCAAGAAAAATATTGAAGAGTGGGGCCCGTTTCCACTTGGTGATTGGTG  
 GAAGCCCATGCAATGATCTCTAACGTCAATCCTGCCCGCAAAGGTTTATATGAGGGCACAGGAAGGCT  
 CTTCTTCGAGTTTTACCACTTGTGAATTATACCCGCCCAAGGAGGGCGACAACCGTCCATTCTTCTGG  
 ATGTTTCGAGAATGTTGTGGCCATGAAAGTGAATGACAAGAAAGACATCTCAAGATTCCTGGCATGTAACC  
 CAGTGATGATCGATGCCATCAAGGTGTCTGCTGCTCACAGGGCCCGTACTTCTGGGGTAACCTACCCGG  
 AATGAACAGGATCTTCGGCTTCCCTGCTCACTACACGGACGTGTCCAACATGGGCCGCGGCCCGCTCAG  
 AAGCTGCTGGGCAGTCTGGAGTGTACCGTCTCAGACACCTGTTTGGCCCTGAAGGACTACTTTG  
 CCTGTGAATAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_001003963  
**Insert Size:** 2391 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_001003963.4</a> , <a href="#">NP_001003963.2</a>
<b>RefSeq Size:</b>	4152 bp
<b>RefSeq ORF:</b>	2391 bp
<b>Locus ID:</b>	13436
<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 (4) differs in the 5' UTR, and contains multiple differences in the coding region, but maintains the reading frame, compared to variant 5. The encoded isoform (4, also known as Dnmt3b6) is shorter than isoform 5. Variants 4 and 8 encode the same isoform (4).</p>