

Product datasheet for **MC221993**

Dnmt3b (NM_001003960) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dnmt3b (NM_001003960) 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: >MC221993 representing NM_001003960
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGGGAGACAGCAGACATCTGAATGAAGAAGAGGGTGCCAGCGGGTATGAGGAGTGCATTATCGTTA
 ATGGGAACTTCAGTGACCAGTCCCTCAGACACGAAGGATGCTCCCTCACCCCAAGTCTTGAGGCAATCTG
 CACAGAGCCAGTCTGCACACCAGAGACAGAGGCCGAGGTCAAGCTCCCGGCTGTCTAAGAGGGAGGT
 TCCAGCCTTCTGAATTACACGCAGGACATGACAGGAGATGGAGACAGAGATGATGAAGTAGATGATGGGA
 ATGGCTGTGATTTCTAATGCCAAAGCTCACCCGTGAGACCAAGGACACCAGGACGCGCTCTGAAAGCCC
 GGCTGTCCGAACCCGACATAGCAATGGGACCTCCAGCTTGAGAGGGCAAAGACCTCCCCAGAATCACC
 CGAGGTCGGCAGGGCCGCCACCATGTGCAGGAGTACCCTGTGGAGTTTCCGGCTACCAGGTCTCGGAGAC
 GTCGAGCATCATCTTCAGCAAGCAGCCATGGTCATCCCCTGCCAGCGTCGACTTCATGGAAGAAGTGAC
 ACCTAAGAGCGTCAGTACCCCATCAGTTGACTTGAGCCAGGATGGAGATCAGGAGGTATGGATACCACA
 CAGGTGGATGCAGAGAGCAGAGATGGAGACAGCACAGAGTATCAGGATGATAAAGAGTTTGGAAAGGTG
 ACCTCGTGTGGGAAAGATCAAGGGCTTCTCCTGGTGGCCTGCCATGGTGGTGTCTGGAAGGCCACCTC
 CAAGCGACAGGCCATGCCCGAATGCGCTGGGTACAGTGGTTTGGTATGGCAAGTTTTCTGAGATCTCT
 GCTGACAAACTGGTGGCTCTGGGGCTGTTAGCCAGCACTTAACTGGCTACCTTCAATAAGCTGGTTT
 CTTATAGGAAGGCCATGTACCACACTCTGGAGAAAAGCCAGGGTTCGAGCTGGCAAGACCTTCTCCAGCAG
 TCCTGGAGAGTCACTGGAGGACCAGCTGAAGCCCATGCTGGAGTGGGCCACGGTGGCTTCAAGCCTACT
 GGGATCGAGGGCCTCAAACCCAACAAGAAGCAACCAGAGAACAAAAGTGAAGACGCACAACCAATGACT
 CTGCTGCTTCTGAGTCCCCCCCACCAAGCGCCTCAAGACAATAGCTATGGCGGGAAGGACCGGGGA
 GGATGAGGAGAGCCGAGAACGGATGGCTTCTGAAGTACCAACAACAAGGGCAATCTGGAAGACCGCTGT
 TTGTCTGTGGAAGAAGAACCCTGTGTCTTCCACCCCTCTTTGAGGGTGGGCTCTGTGAGAGTTGCC
 GGGATCGTCTCTAGAGCTTTCTACATGTATGATGAGGACGGCTATCAGTCTACTGCACCGTGTGCTG
 TGAGGGCCGTGAAGTGTGCTGTGCAGTAACACAAGCTGCTGCAGATGCTTCTGTGTGGAGTGTCTGGAG
 GTGCTGGTGGGCGCAGGCACAGCTGAGGATGCCAAGCTGCAGGAACCCTGGAGCTGCTATATGTGCTCC
 CTCAGCGTCCCATGGGGTCTCCGACGCAGGAAAGATTGGAACATGCGCCTGCAAGACTTCTTCACTAC
 TGATCCTGACCTGGAAGAATTTAGCCACCAAGTTGTACCCAGCAATTCCTGCAGCCAAAAGGAGGCC
 ATTAGAGTCTGTCTCTGTTGATGGAATTGCAACGGGGTACTTGGTGTCAAGGAGTTGGGTATTAAG
 TGGAAAAGTACATTGCCCTCCGAAGTCTGTGCAGAGTCCATCGCTGTGGGAACTGTTAAGCATGAAGGCCA
 GATCAAATATGTCAATGACGTCCGGAAAATCACAAGAAAAATATTGAAGAGTGGGGCCCGTTGCACTTG
 GTGATTGGTGAAGCCCATGCAATGATCTCTTAACGTCAATCCTGCCCGCAAAGTTTTATATGAGGGCA
 CAGGAAGGCTCTTCTCGAGTTTTACCCTGTGTAATTATACCCGCCCAAGGAGGGCGACAACCGTCC
 ATCTTCTGGATGTTGAGAAATGTTGTGGCCATGAAAGTGAATGACAAGAAAGACATCTCAAGATTCTGT
 GCATGTAACCCAGTGTGATCGATGCCATCAAGGTGTCTGCTGCTCACAGGGCCCGTACTTCTGGGGTA
 ACCTACCCGGAATGAACAGGCCCGTGTGGCTTCAAAGAATGATAAGCTCGAGCTGCAGGACTGCCTGGA
 GTTCAGTAGGACAGCAAAGTTAAAGAAAGTGCAGACAATAACCAAGTGAAGTCCACTCAGACAGGGC
 AAAAACCAGCTTTTCCCTGTAGTCAATGGCAAGGACGACGTTTTGTGGTGCAGTGCAGTGCAGAAAGGA
 TCTTCGGCTTCCCTGCTCACTACACGGAGTGTCCAACATGGGCCGCGGCCCGCTCAGAAGCTGTGGG
 CAGGTCCTGGAGTGTACCGGTCATCAGACACCTGTTTGGCCCTTGAAGGACTACTTTGCCTGTGA**AG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001003960
Insert Size: 2520 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:	<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:	<u>NM_001003960.4</u> , <u>NP_001003960.2</u>
RefSeq Size:	4281 bp
RefSeq ORF:	2520 bp
Locus ID:	13436
UniProt ID:	<u>O88509</u>
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 (2) 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 (2, also known as Dnmt3b2) is shorter than isoform 5. Variants 2 and 7 encode the same isoform (2).</p>