

Product datasheet for **MC221478**

Dnmt3b (NM_010068) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dnmt3b (NM_010068) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dnmt3b
Synonyms:	Mmull1B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221478 representing NM_010068
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGGGAGACAGCAGACATCTGAATGAAGAAGAGGGTGCCAGCGGGTATGAGGAGTGCATTATCGTTA
 ATGGGAATTCAGTGACCAGTCCCTCAGACACGAAGGATGCTCCCTCACCCCAAGTCTTGGAGGCAATCTG
 CACAGAGCCAGTCTGCACACCAGAGACCAGAGGCCGAGGTCAAGCTCCCGGCTGTCTAAGAGGGAGGT
 TCCAGCCTTCTGAATTACACGCAGGACATGACAGGAGATGGAGACAGAGATGATGAAGTAGATGATGGGA
 ATGGCTGTGATTTCTAATGCCAAAGCTCACCCGTGAGACCAAGGACACCAGGACGCGCTCTGAAAGCCC
 GGCTGTCCGAACCCGACATAGCAATGGGACCTCCAGCTTGGAGAGGCAAAGAGCCTCCCCAGAATCACC
 CGAGGTCGGCAGGGCCGCCACCATGTGCAGGAGTACCCTGTGGAGTTTCCGGCTACCAGGTCTCGGAGAC
 GTCGAGCATCATTTAGCAAGCAGCCATGGTCATCCCCTGCCAGCGTCGACTTCATGGAAGAAGTGAC
 ACCTAAGAGCGTCAGTACCCCATCAGTTGACTTGAGCCAGGATGGAGATCAGGAGGTATGGATACCACA
 CAGGTGGATGCAGAGAGCAGAGATGGAGACAGCACAGAGTATCAGGATGATAAAGAGTTTGGAAAGGTG
 ACCTCGTGTGGGAAAGATCAAGGGCTTCTCCTGGTGGCCTGCCATGGTGGTGTCTGAAAGGCCACCTC
 CAAGCGACAGGCCATGCCCGAATGCGCTGGGTACAGTGGTTTGGTATGGCAAGTTTTCTGAGATCTCT
 GCTGACAAACTGGTGGCTCTGGGGCTGTTAGCCAGCACTTAACTGGCTACCTTCAATAAGCTGGTTT
 CTTATAGGAAGGCCATGTACCACACTCTGGAGAAAAGCCAGGGTTCGAGCTGGCAAGACCTTCTCCAGCAG
 TCCTGGAGAGTCACTGGAGGACCAGCTGAAGCCCATGCTGGAGTGGGCCACGGTGGCTTCAAGCCTACT
 GGGATCGAGGGCCTCAAACCCAAGAAGCAACCAGAGAACAAAAGTGAAGACGCACAACCAATGACT
 CTGCTGCTTCTGAGTCCCCCACCACAGCGCCTCAAGACAATAGCTATGGCGGGAAGGACCGAGGGGA
 GGATGAGGAGAGCCGAGAACGGATGGCTTCTGAAGTACCAACAACAAGGGCAATCTGGAAGACCGCTGT
 TTGTCTGTGAAAGAAGAACCCTGTGTCTTCCACCCCTCTTTGAGGGTGGGCTCTGTGAGAGTTGCC
 GGGATCGTCTCTAGAGCTTTCTACATGTATGATGAGGACGGCTATCAGTCTACTGCACCGTGTGCTG
 TGAGGGCCGTGAAGTGTGCTGTGCAGTAACACAAGCTGCTGCAGATGCTTCTGTGTGGAGTGTCTGGAG
 GTGCTGGTGGGCGCAGGCACAGCTGAGGATGCCAAGCTGCAGGAACCCTGGAGTGTCTATATGTGCTCC
 CTCAGCGTCCCATGGGGTCTCCGACGCAGGAAAGATTGGAACATGCGCCTGCAAGACTTCTTCACTAC
 TGATCCTGACCTGGAAGAATTTAGCCACCCAAGTTGTACCCAGCAATTCCTGCAGCCAAAAGGAGGCC
 ATTAGAGTCTGTCTCTGTTGATGGAATTGCAACGGGGTACTTGGTGTCAAGGAGTTGGGTATTAAG
 TGGAAAAGTACATTGCCTCCGAAGTCTGTGCAGAGTCCATCGCTGTGGAACTGTTAAGCATGAAGGCCA
 GATCAAATATGTCAATGACGTCCGGAAAATCACAAGAAAAATATTGAAGAGTGGGGCCCGTTGCACTTG
 GTGATTGGTGGAAAGCCATGCAATGATCTCTTAACGTCAATCCTGCCCGCAAAGTTTTATATGAGGGCA
 CAGGAAGGCTCTTCTCGAGTTTTACCCTTGTGAAATATACCCGCCCAAGGAGGGCGACAACCGTCC
 ATCTTCTGGATGTTGAGAAATGTTGTGGCCATGAAAGTGAATGACAAGAAAGACATCTCAAGATTCTG
 GCATGTAACCCAGTGTGATCGATGCCATCAAGGTGTCTGCTGCTCACAGGGCCCGTACTTCTGGGGTA
 ACCTACCCGGAATGAACAGGATCTTCGGCTTCCCTGCTCACTACACGGACGTGTCCAACATGGGCCGCGG
 CGCCCGTCAGAAGCTGTGGCAGGTCTGGAGGTACCGGTATCAGACACCTGTTTCCCCCTTGAAG
 GACTACTTTCCTGTGAATAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_010068
Insert Size: 2331 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:	NM_010068.5 , NP_034198.3
RefSeq Size:	4092 bp
RefSeq ORF:	2331 bp
Locus ID:	13436
UniProt ID:	O88509
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 (3) 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 (3, also known as Dnmt3b3) is shorter than isoform 5. Variants 3 and 9 encode the same isoform (3).</p>