

Product datasheet for **MR225600**

Dnmt3b (NM_001003960) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Dnmt3b (NM_001003960) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Dnmt3b |
| Synonyms: | MmullIB |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>MR225600 representing NM_001003960
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGGGAGACAGCAGACATCTGAATGAAGAAGAGGGTGCCAGCGGGTATGAGGAGTGCATTATCGTTA
 ATGGGAATTCAGTGACCAGTCCCTCAGACACGAAGGATGCTCCCTCACCCCAAGTCTTGAGGCAATCTG
 CACAGAGCCAGTCTGCACACCAGAGACCAGAGGCCGAGGTCAAGCTCCCGGCTGTCTAAGAGGGAGGTC
 TCCAGCCTTCTGAATTACACGCAGGACATGACAGGAGATGGAGACAGAGATGATGAAGTAGATGATGGGA
 ATGGCTCTGATATTCTAATGCCAAAGCTCACCCGTGAGACCAAGGACACCAGGACGCGCTCTGAAAGCCC
 GGCTGTCCGAACCCGACATAGCAATGGGACCTCCAGCTTGAGAGGCCAAAGAGCCTCCCCAGAATCACC
 CGAGGTCGGCAGGGCCGCCACCATGTGCAGGAGTACCCTGTGGAGTTTCCGGCTACCAGGTCTCGGAGAC
 GTCGAGCATCATCTTCAGCAAGCAGCCATGGTCATCCCCTGCCAGCGTCGACTTCATGGAAGAAGTGAC
 ACCTAAGAGCGTCAGTACCCCATCAGTTGACTTGAGCCAGGATGGAGATCAGGAGGTATGGATACCACA
 CAGGTGGATGCAGAGAGCAGAGATGGAGACAGCACAGAGTATCAGGATGATAAAGAGTTTGGAAAGGTTG
 ACCTCGTGTGGGAAAGATCAAGGGCTTCTCCTGGTGGCCTGCCATGGTGGTGTCTGGAAGGCCACCTC
 CAAGCGACAGGCCATGCCCGAATGCGCTGGGTACAGTGGTTTGGTGATGGCAAGTTTTCTGAGATCTCT
 GCTGACAAACTGGTGGCTCTGGGGCTGTTAGCCAGCACTTAACTGGCTACCTTCAATAAGCTGGTTT
 CTTATAGGAAGGCCATGTACCACACTCTGGAGAAAAGCCAGGGTTCGAGCTGGCAAGACCTTCTCCAGCAG
 TCCTGGAGAGTCACTGGAGGACCAGCTGAAGCCCATGCTGGAGTGGGCCACGGTGGCTTCAAGCCTACT
 GGGATCGAGGGCCTCAAACCCAAAGAAGCAACCAGAGAACAAAAGTGAAGACGCACAACCAATGACT
 CTGCTCTTCTGAGTCCCCCCCACCAAGCGCCTCAAGACAATAGCTATGGCGGGAAGGACCCGAGGGA
 GGATGAGGAGAGCCGAGAACGGATGGCTTCTGAAGTACCAACAACAAGGGCAATCTGGAAGACCGCTGT
 TTGTCTGTGGAAGAAGAACCCTGTGTCTTCCACCCCTCTTTGAGGGTGGGCTCTGTGAGAGTTGCC
 GGGATCGTCTCTAGAGCTCTTCTACATGTATGATGAGGACGGCTATCAGTCTACTGCACCGTGTGCTG
 TGAGGGCCGTGAAGTGTGCTGTGCAGTAACACAAGCTGCTGCAGATGCTTCTGTGTGGAGTGTCTGGAG
 GTGCTGGTGGGCGCAGGCACAGCTGAGGATGCCAAGCTGCAGGAACCCTGGAGCTGCTATATGTGCCTCC
 CTCAGCGTCCCATGGGGTCTCCGACGCAGGAAAGATTGGAACATGCGCCTGCAAGACTTCTTCACTAC
 TGATCCTGACCTGGAAGAATTTGAGCCACCAAGTTGTACCCAGCAATTCCTGCAGCCAAAAGGAGGCC
 ATTAGAGTCTGTCTCTGTTTGGATGGAATTGCAACGGGGTACTTGGTGTCAAGGAGTTGGGTATTAAG
 TGGAAAAGTACATTGCCTCCGAAGTCTGTGCAGAGTCCATCGCTGTGGAACTGTTAAGCATGAAGGCCA
 GATCAAAATATGTCAATGACGTCCGGAAAATCACCAGAAAATATTGAAGAGTGGGGCCCGTTGCACTTG
 GTGATTGGTGGAAAGCCATGCAATGATCTCTTAACGTCAATCCTGCCCGCAAAGTTTTATATGAGGGCA
 CAGGAAGGCTCTTCTCGAGTTTTACCAGTGTGAATTATACCCGCCCAAGGAGGGCGACAACCGTCC
 ATCTTCTGGATGTTGAGAAATGTTGTGGCCATGAAAGTGAATGACAAGAAAGACATCTCAAGATTCTG
 GCATGTAACCCAGTGTGATCGATGCCATCAAGGTGTCTGCTGCTCACAGGGCCCGTACTTCTGGGGTA
 ACCTACCCGGAATGAACAGGCCCGTGTGGCTTCAAAGAATGATAAGCTCGAGCTGCAGGACTGCCTGGA
 GTTCAGTAGGACAGCAAAGTTAAAGAAAGTGCAGACAATAACCACCAAGTGAAGTCCATCAGCAGGGC
 AAAAACCAGCTTTTCCCTGTAGTCATGAATGGCAAGGACGACGTTTTGTGGTGCAGTGCAGCTCGAAAGGA
 TCTTCGGCTTCCCTGCTCACTACACGGACGTGTCCAACATGGGCCGCGGCCCGCTCAGAAGCTGTGGG
 CAGGCTCTGGAGTGTACCGTTCATCAGACACCTGTTTGCCCTTGAAGGACTACTTTGCCTGTGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR225600 representing NM_001003960
 Red=Cloning site Green=Tags(s)

```

MKGDSRHLNEEGASGYEECIIVNGNFSDQSSDTKDAPSPVLEAICTEPVCTPETRGRSSRLSKREV
SSLLNYTQDMTGDGDRDDEVDDGNGSDILMPKLTRETKDTRTRSESPAVRTRHSNGTSSLERQASPRIT
RGRQGRHHVQEYPVEFPATRSRRRRASSASTPWSSPASVDFMEEVTPKSVSTPSVDLSQGDQEGMDTT
QVDAESRDGDSTEYQDDKEFGIGDLVWGKIKGFSWWPAMVVSWKATSKRQAMPGMRVWQWFGDGKFSEIS
ADKLVALGLFSQHFNLATFNKLVSYRKAMYHTLEKARVRAGKTFSSSPGESLEDQLKPMLEWAHGGFKPT
GIEGLKPNKKQPENKSRRTTNDSSAASESPPPKRLKTNVSYGGKDRGEDEESRERMASEVTNNKGNLEDRC
LSCGKKNPVSFHPLFEGGLCQSCRDRFLELFMYDEDEGYQSYCTVCCEGRELLCSNTSCCRFCVECLE
VLVGAGTAEDAQLQEPWSCYMCLPQRCHGVLRRRKDWNMRLQDFFTTDPDLEEFPPKLYPAIPAAKRRP
IRVLSLFDGIATGYLVKELGIKVEKYIASEVCAESIAGTVKHGQIKYVNDVRKITKKNIEEWGPFDL
VIGGSPCNDLSNVNPARGLYEGTGRLFFEFYHLLNYTRPKEGDNRPFVWFENVVAMKVNDKKDISRFL
ACNPVMIDAIVSAHRARYFWGNLPGMNRPMASKNDKLELQDCLEFSRTAKLKKVQITITKSNSIRQG
KNQLFPVVMNGKDDVLWCTELERIFGFP AHYTDVSNMGRGARQKLLGRSWSVPVIRHLFAPLKDYFACE
  
```

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_001003960

ORF Size: 2517 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:

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_001003960.4](#), [NP_001003960.2](#)

RefSeq Size: 4281 bp

RefSeq ORF: 2520 bp

Locus ID: 13436

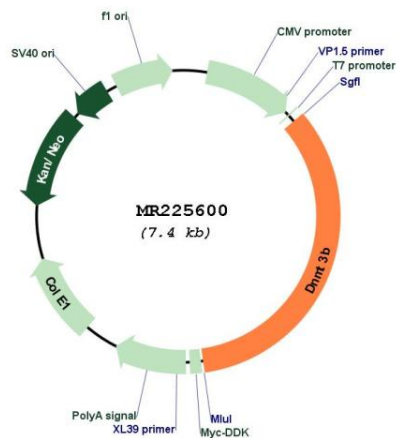
UniProt ID: [O88509](#)

Cytogenetics: 2 H1

MW: 94.8 kDa

Gene Summary: 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]

Product images:



Circular map for MR225600