

## Product datasheet for **RC234733**

### **DNMT3B (NM\_001207056) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DNMT3B (NM_001207056) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DNMT3B
Synonyms:	ICF; ICF1; M.HsaIIIB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC234733 representing NM\_001207056  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAAGGGAGACACCAGGCATCTCAATGGAGAGGAGGACGCCGGGGAGGGAAGACTCGATCCTCGTCA  
 ACGGGGCCTGCAGCGACCAGTCCTCCGACTCGCCCCAATCCTGGAGGCTATCCGCACCCGGAGATCAG  
 AGGCCGAAGATCAAGCTCGGACTCTCCAAGAGGGAGGTGCCAGTCTGCTAAGCTACACACAGTCCCTG  
 AGACGGCGGGCAACAGCATCGGCAGGAACGCCATGGCCGTCCTCCAGCTCTTACCTTACCATCGACC  
 TCACAGACGACACAGAGGACACACATGGGACGCCCCAGAGCAGCAGTACCCCTACGCCCGCTAGCCCA  
 GGACAGCCAGCAGGGGGCATGGAGTCCCCGAGGTGGAGGCAGACAGTGGAGATGGAGACAGTTACAGAG  
 TATCAGGATGGGAAGGAGTTTGAATAGGGGACCTCGTGTGGGAAAGATCAAGGGCTTCTCCTGGTGGC  
 CCGCCATGGTGGTGTCTTGAAGGCCACCTCAAGCGACAGGCTATGTCTGGCATGCCGTGGTCCAGTG  
 GTTTGGCGATGGCAAGTCTCCGAGTCTCTGCAGACAACTGGTGGCACTGGGGCTGTTACGCCAGCAC  
 TTTAATTTGGCCACCTTCAATAAGCTCGTCTCCTATCGAAAAGCCATGTACCATGCTCTGGAGAAAAGCTA  
 GGGTGCAGACTGGCAAGACCTTCCCCAGCAGCCCTGGAGACTCATTGGAGGACCAGCTGAAGCCCATGTT  
 GGAGTGGGCCACGGGGCTTCAAGCCCACTGGGATCGAGGGCCTCAAACCCAACAACACGCAACCAGAG  
 AACAAGACTCGAAGACGCACAGCTGACGACTCAGCCACCTCTGACTACTGCCCGCACCCAAGCGCCTCA  
 AGACAAATTGCTATAACAACGGCAAAGACCGAGGGGATGAAGATCAGAGCCGAGAACAATGGCTTCAGA  
 TGTTGCCAACAAAGAGCAGCCTGGAAGATGGCTGTTTGTCTTGGCAGGAAAAACCCCGTGTCTTTC  
 CACCCTCTCTTGGAGGGGGCTCTGTGACATGCCGGGATCGTTCCTTGAGCTGTTTTACATGTATG  
 ATGACGATGGCTATCAGTCTTACTGCACTGTGTGCTGCGAGGGCCGAGAGCTGCTGCTTTCAGCAACAC  
 GAGCTGCTGCCGGTGTCTGTGTGGAGTGCCTGGAGGTGCTGGTGGGCACAGGCACAGCGCCGAGGCC  
 AAGCTTCAGGAGCCCTGGAGCTGTTACATGTGTCTCCCGCAGCGCTGTCATGGCGTCTGCGGCGCCGGA  
 AGGACTGGAACGTGCGCCTGCAGGCCTTCCACCAGTGACACGGGGCTTGAATATGAAGCCCCAAGCT  
 GTACCCTGCCATCCCGCAGCCGAAGGCGGCCATTGAGTCTGTGATTGTTGATGGCATCGCGACA  
 GGCTACCTAGTCTCAAAGAGTTGGGCATAAAGGTAGGAAAGTACGTGCTTCTGAAGTGTGTGAGGAGT  
 CCATTGCTGTTGGAACCGTGAAGCACGAGGGGAATATCAAATACGTGAACGACGTGAGGAACATCACAAA  
 GAAAAATATTGAAGAATGGGGCCATTTGACTTGGTGATTGGCGGAAGCCCATGCAACGATCTCTCAAAT  
 GTGAATCCAGCCAGGAAAGGCCTGTATGAGGGTACAGGCCGCTCTTCTCGAATTTTACCACCTGCTGA  
 ATTACTACGCCCAAGGAGGGTATGACCGCGCTTCTTCTGGATGTTTGAGAATGTTGTAGCCATGAA  
 GTTTGGCGACAAGAGGGACATCTCACGGTCTCGAGTGTAAATCCAGTGTGATTGATGCCATCAAAGTT  
 TCTGCTGCTCACAGGGCCGATACTTCTGGGGCAACCTACCCGGGATGAACAGGATCTTTGGCTTTCCTG  
 TGCACTACACAGACGTGTCCAACATGGGCCGTGGTCCCGCCAGAAGCTGCTGGGAAGGTCTGGAGCGT  
 GCCTGTATCCGACACCTCTCGCCCTCTGAAGGACTACTTTGCATGTGAA

**ACGCGT**ACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC234733 representing NM\_001207056  
Red=Cloning site Green=Tags(s)

MKGDTRHLNGEEDAGGREDSILVNGACSDQSSDSPPILEAIRTPEIRGRSSSRLSKREVSSLLSYTQSL  
 RRRATASAGTPWPSPPSSYL TIDL TDDTEDTHGTPQSSSTPYARLAQDSQQGMESPQVEADSGDGSSE  
 YQDGKEFGIGDLVWGKIKGFSWVPAMVSWKATSKRQAMSGMRVWQWFGDGKFSEVSADKLVALGLFSQH  
 FNLATFNKLVSYRKAMYHALEKARVRAGKTFPSSPGDSLEDQLKPMLEWAHGGFKPTGIEGLKPNNTQPE  
 NKTRRRRTADDSATSDYCPAPKRLKTNCYNNKDRGDEDQSREQMASDVANNKSSLEDGCLSCGRKNPVSF  
 HPLFEGGLCQTCRDRFLELFYMYDDDGYSYCTVCCEGRELLLCNTSCRCFCVECLEVELVGTGTAEEA  
 KLQEPWSCYMCLPQRCHGVLRRRKDWNVRLQAFFTSDTGLEYEAPKLYPAIPAARRRPIRVL SFDGIAT  
 GYLVLKELGIKVGKYVASEVCEESI AVGTVKHEGNIKYVNDVRNITKKNIEEWGPFDLVIGGSPCNDLSN  
 VNPARKGLYEGRLLFFEFYHLLNYSRPKEGDDRPFFWMFENVVAMKVGDKRDISRFLECNPVMIDAIVK  
 SAAHRARYFWGNLPGMNRIFGFPVHYTDVSNMGRGARQKLLGRSWSVPVIRHLFAPLKDYFACE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001207056

**ORF Size:** 2082 bp

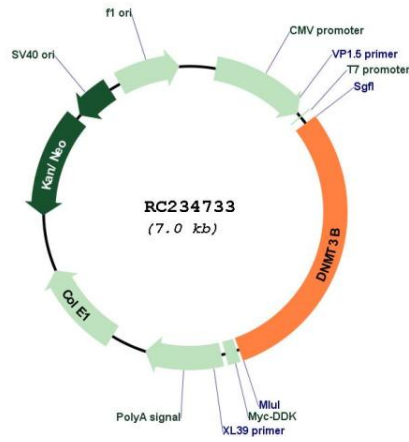
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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).

<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_001207056.2</a>
<b>RefSeq Size:</b>	3876 bp
<b>RefSeq ORF:</b>	2085 bp
<b>Locus ID:</b>	1789
<b>UniProt ID:</b>	<a href="#">Q9UBC3</a>
<b>Cytogenetics:</b>	20q11.21
<b>Protein Families:</b>	Druggable Genome, Embryonic stem cells, Induced pluripotent stem cells, Stem cell - Pluripotency
<b>Protein Pathways:</b>	Cysteine and methionine metabolism, Metabolic pathways
<b>MW:</b>	78.2 kDa
<b>Gene Summary:</b>	<p>CpG methylation is an epigenetic modification that is important for embryonic development, imprinting, and X-chromosome inactivation. Studies in mice have demonstrated that DNA methylation is required for mammalian development. This gene encodes a DNA methyltransferase which is thought to function in de novo methylation, rather than maintenance methylation. The protein localizes primarily to the nucleus and its expression is developmentally regulated. Mutations in this gene cause the immunodeficiency-centromeric instability-facial anomalies (ICF) syndrome. Eight alternatively spliced transcript variants have been described. The full length sequences of variants 4 and 5 have not been determined. [provided by RefSeq, May 2011]</p>

Product images:



Circular map for RC234733