

Product datasheet for **SC124706**

DNMT3B (NM_175848) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DNMT3B (NM_175848) Human Untagged Clone
Tag:	Tag Free
Symbol:	DNMT3B
Synonyms:	ICF; ICF1; M.HsallIB
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_175848, the custom clone sequence may differ by one or more nucleotides

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ATGAAGGGAGACACCAGGCATCTCAATGGAGAGGAGGACGCCGGCGGGAGGGAAGACTCGATCCTCGTCA
ACGGGGCCTCGACGACCAGTCCCTCCGACTCGCCCCAATCCTGGAGGCTATCCGCACCCCGGAGATCAG
AGGCCGAAGATCAAGCTCGCGACTCTCCAAGAGGGAGGTGCCAGTCTGCTAAGCTACACACAGGACTTG
ACAGGCGATGGCGACGGGGAAGATGGGGATGGCTCTGACACCCAGTCATGCCAAAGCTCTCCGGGAAA
CCAGGACTCGTTCAAAAAGCCAGCTGTCCGAACCTCGAAATAACAACAGTGTCTCCAGCCGGGAGAGGCA
CAGGCCTTCCCCACGTTCCACCCGAGGCCGGCAGGGCCGCAACCATGTGGACGAGTCCCCGTGGAGTTC
CCGGTACCAGTCCCTGAGACGGCGGCAACAGCATCGGCAGGAACGCCATGGCCGTCCCTCCCAGCT
CTTACCTTACCATCGACCTCACAGACGACAGAGGACACACATGGGACGCCCCAGAGCAGCAGTACCCC
CTACGCCGCCTAGCCCAGGACAGCCAGCAGGGGGCATGGAGTCCCGCAGGTGGAGGCAGACAGTGGAG
GATGGAGACAGTTCAGAGTATCAGGATGGGAAGGAGTTTGAATAGGGGACCTCGTGTGGGAAAGATCA
AGGGCTTCTCCTGGTGGCCGCCATGGTGGTGTCTTGAAGGCCACCTCAAGCGACAGGCTATGTCTGG
CATGCGGTGGGTCCAGTGGTTTGGCGATGGCAAGTTCTCCGAGGTCTCTGCAGACAAACTGGTGGCACTG
GGGCTGTTCAAGCAGCACTTTAATTTGGCCACCTTCAATAAGCTCGTCTCCTATCGAAAAGCCATGTACC
ATGCTCTGGAGAAAGCTAGGGTGCAGCTGGCAAGACCTTCCCCAGCAGCCCTGGAGACTCATTGGAGGA
CCAGCTGAAGCCCATGTTGGAGTGGGCCACGGGGCTTCAAGCCACTGGGATCGAGGGCTCAAACCC
AACACACGCAACCAGAGAACAAGACTCGAAGACGCACAGCTGACGACTCAGCCACCTCTGACTACTGCC
CCGCACCCAAGCGCTCAAGACAATTGCTATAACAACGGCAAAGACCGAGGGATGAAGATCAGAGCCG
AGAACAATGGCTTCAGATGTTGCCAACAAAGAGCAGCCTGGAAGATGGCTGTTTGTCTTGTGGCAGG
AAAAACCCGTGCTCTCCACCTCTCTTTGAGGGGGGCTCTGTCAGACATGCCGGGATCGCTTCCCTTG
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GCTGCTTTCAGCAACACGAGCTGCTGCCGGTGTCTGTGTGGAGTGCCTGGAGGTGCTGGTGGGCACA
GGCACAGCGCCGAGGCAAGCTTCAAGAGCCTGGAGCTGTTACATGTGTCTCCCGCAGCGCTGTCATG
GCGTCTGCGGCGCCGAAGGACTGGAACGTGCGCCTGCAGGCCTTCTTACCAGTGACACGGGGCTTGA
ATATGAAGCCCCAAGCTGTACCCTGCCATTCCCGCAGCCGAAGGCGGCCATTTCGAGTCTGTCATTG
TTTGATGGCATCGCGACAGGCTACCTAGTCTCAAAGAGTTGGGCATAAAGGTAGGAAAGTACGTCGCTT
CTGAAGTGTGTGAGGAGTCCATTGCTGTTGGAACCGTGAAGCACGAGGGGAATATCAAATACGTGAACGA
CGTGAGGAACATCACAAGAAAAATATTGAAGAATGGGGCCATTGACTTGGTATTGGCGGAAGCCCA
TGCAACGATCTCTCAAATGTGAATCCAGCCAGGAAAGGCCTGTATGAGGGTACAGGCCGGCTCTTCTCG
AATTTTACCACCTGCTGAATTACTCACGCCCAAGGAGGGTGTGACCGCCGTTCTTCTGGATGTTTGA
GAATGTTGTAGCCATGAAGGTTGGCGACAAGAGGGACATCTCACGGTTCCTGGAGTGAATCCAGTGATG
ATTGATGCCATCAAAGTTTCTGTGCTCACAGGGCCGATACTTCTGGGCAACCTACCCGGGATGAACA
GGCCCGTGATAGCATCAAAGAATGATAAAGTGCAGCTGCAGGACTGCTTGAATACAATAGGATAGCCAA
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GTTGTCATGAATGGCAAAGAAGATGTTTGTGGTGCAGTGCAGTGCAGGAGTCTTTGGCTTTCCTGTGC
ACTACACAGACGTGTCCAACATGGGCCGTGGTCCCGCCAGAAGCTGCTGGGAAGGTCTGGAGCGTGCC
TGTCATCCGACACCTCTCGCCCTCTGAAGGACTACTTTCATGTGAATAG
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_175848 unedited
 TTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGCGGAGATTCGCGAGCCCA
 GCGCCCTGCACGGCCGCCAGCCGGCCTCCCGCCAGCCAGCCCCGACCCGCGGCTCCGCCG
 CCCAGCCGCGCCCCAGCCAGCCCTGCGGCAGGAAAGCATGAAGGGAGACACCAGGCATCT
 CAATGGAGAGGAGGACGCCGGCGGGAGGAAAGACTCGATCCTCGTCAACGGGGCTGCAG
 CGAACAGTCTCCGACTCGCCCCAATCCTGGAGGCTATCCGCACCCCGGAGATCAGAGG
 CCGAAGATCAAGCTCGCGACTCTCCAAGAGGGGAGGTGTCCAGTCTGCTAAGCTACACAC
 AGGACTTGACAGCGATGGCGACGGGAAAGGNNGAATGGCTCTGACACCCAGTCATG
 CCAAAGCTCTTCCGGGAAACCAGGACTCGTTCAGAAAGCCAGCTTCCCTGAGACGGCGG
 GCAACAGCATCGGCAGGAACGCCATGGGCCGTCCCTCCAGCTTTACCTTACCATCGA
 CCTCACAGACGACACAGAGGACACACATGGGACGCCCCAGAGCAGCAGTACCCCTACGC
 CCGCCTAGCCAGGACAGCCAGCAAGGGGGGCATGGAGCCCCGAGGTGGAGGCAGACA
 GTGGGAGATGAAAACAGTTCAAAGATCAGGATGGGAAAGGGATTGGAATTAGGGGACCC
 TGTGTGGGAAAAGAACAAGGGTTCTCTTGGTGGCCCCCTGTTGGGGTCTTAAAAAGC
 CCCTCCCAACAAAGGCTTTGTTTGTCTTCCGGGGTCCANNTGTTTTGNNATGCAATT
 TTTCCAGTTTTTNNAACAAATTGTGCCTGGGNTTTTTTACCCCATTTTTTTTNGCA
 CTCA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_175848 unedited
 TGGACCGGCACGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTAAACAA
 ATACTGATTTTAAATTAACATAAGGTAACTCTAGGCATCCGTCATCTTTCAGCCTAAAA
 ATTAGCAAAAACGTTGAAACAAGGCACAGTTTTTTCCCATATTTGTTACGTCGTGGCT
 CCAGTTACAAAAAATTTAATGAAAACGTTAAACATAAAAAATAGAAGTTTGAGATTTTA
 AAAAGTGATAAAAAGCCCCACAAAACCTGTCAACGTTGTTCTTATTCTACAAAATAGC
 ACCAGTAAGAAGAGTAAAAGGTGTTAAAAACCATTATGACAGCATTTCTGAAATGCAGCT
 TGTCTGAATTCCTGTTCCCTAAAAACGACTTCTTATGGAATAAAAAAGGATTAATAAAA
 TCTCCAAGGGAGCACCGAGCTTTGCAGTTTTCCCTGTCTCTCAGATGTGGGGAAAGG
 TATGAGAAATGTATGTCTGTCCCTGACTGCTGTCACTGCCTCTGAGTTTAGTAAAAAGAT
 GAGAAATGAGGGTAGCAGACTTCTCATCTGGGGACCTGTGCCTGTGGAGGGTAGGTCTCC
 TGGAAGGAATGGTTGAGGGGGGTTTTATCTAAGCTTTGCTTTCACTCCTTTCTTAGG
 GAAGAGGAGATCCGGGGAGCCTTCTGCCTTCAAATATGGCGGTTAATTTAGAACTGA
 GACACCCTTGCTGACCCCCAGAGGCTTTTTGTATTACGCGAGGTTATACAAAAACG
 CCCCTCTCCTTGACCTCGTGGGCAATCATTTTTTTTTTTTCATTAACCCTCATCGACAAA
 CTCATTAGTCCGTCCATCCCCCGCCTCCCCCTCTTCCCTCCTCCCTACTTTCGCTCC
 CCCCCTCGTTTTCTTCCCCACCTCTCCTTAGTCCCCCCCCATCCCCTCCTCCTCTC
 CCCATTCA

Restriction Sites:

NotI-NotI

ACCN:

NM_175848

Insert Size:

4000 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_175848.1 , NP_787044.1
RefSeq Size:	4293 bp
RefSeq ORF:	2502 bp
Locus ID:	1789
UniProt ID:	Q9UBC3
Cytogenetics:	20q11.21
Protein Families:	Druggable Genome, Embryonic stem cells, Induced pluripotent stem cells, Stem cell - Pluripotency
Protein Pathways:	Cysteine and methionine metabolism, Metabolic pathways
Gene Summary:	<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> <p>Transcript Variant: This variant (2) lacks an in-frame exon in the coding region, compared to variant 1. Isoform 2 is shorter than isoform 1.</p>