OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC331747

DNMT3B (NM_001207055) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DNMT3B (NM_001207055) Human Untagged Clone
Tag:	Tag Free
Symbol:	DNMT3B
Synonyms:	ICF; ICF1; M.HsaIIIB
Vector:	pCMV6-Entry (PS100001)

View online »

Fully Sequenced ORF:

>SC331747 representing NM_001207055.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGAAGGGAGACACCAGGCATCTCAATGGAGAGGAGGACGCCGGCGGGAGGGAAGACTCGATCCTCGTC
AACGGGGCCTGCAGCGACCAGTCCTCCGACTCGCCCCCAATCCTGGAGGCTATCCGCACCCCGGAGATC
AGAGGCCGAAGATCAAGCTCGCGACTCTCCAAGAGGGAGGTGTCCAGTCTGCTAAGCTACACACAGGAC
TTGACAGGCGATGGCGACGGGGAAGATGGGGATGGCTCTGACACCCCAGTCATGCCAAAGCTCTTCCGG
GAAACCAGGACTCGTTCAGAAAGCCCAGCTTCCCTGAGACGGCGGGCAACAGCATCGGCAGGAACGCCA
TGGCCGTCCCCTCCCAGCTCTTACCTTACCATCGACCTCACAGACGACACAGAGGACACACATGGGACG
CCCCAGAGCAGCAGTACCCCCTACGCCCGCCTAGCCCAGGACAGCCAGCAGGGGGGCATGGAGTCCCCG
CAGGTGGAGGCAGACAGTGGAGATGGAGACAGTTCAGAGTATCAGGATGGGAAGGAGTTTGGAATAGGG
GACCTCGTGTGGGGAAAGATCAAGGGCTTCTCCTGGTGGCCCGCCATGGTGGTGTCTTGGAAGGCCACC
TCCAAGCGACAGGCTATGTCTGGCATGCGGTGGGTCCAGTGGTTTGGCGATGGCAAGTTCTCCGAGGTC
TCTGCAGACAAACTGGTGGCACTGGGGCTGTTCAGCCAGCACTTTAATTTGGCCACCTTCAATAAGCTC
GTCTCCTATCGAAAAGCCATGTACCATGCTCTGGAGAAAGCTAGGGTGCGAGCTGGCAAGACCTTCCCC
AGCAGCCCTGGAGACTCATTGGAGGACCAGCTGAAGCCCATGTTGGAGTGGGCCCACGGGGGCTTCAAG
CCCACTGGGATCGAGGGCCTCAAACCCAACAACACGCAACCAGAGAACAAGACTCGAAGACGCACAGCT
GACGACTCAGCCACCTCTGACTACTGCCCCGCACCCAAGCGCCTCAAGACAAATTGCTATAACAACGGC
AAAGACCGAGGGGATGAAGATCAGAGCCGAGAACAAATGGCTTCAGATGTTGCCAACAACAAGAGCAGC
CTGGAAGATGGCTGTTTGTCTTGTGGCAGGAAAAACCCCGTGTCCTTCCACCCTCTCTTTGAGGGGGGG
CTCTGTCAGACATGCCGGGATCGCTTCCTTGAGCTGTTTTACATGTATGATGACGATGGCTATCAGTCT
TACTGCACTGTGTGCTGCGAGGGCCGAGAGCTGCTGCTTTGCAGCAACACGAGCTGCTGCCGGTGTTTC
TGTGTGGAGTGCCTGGAGGTGCTGGTGGGCACAGGCACAGCGGCCGAGGCCAAGCTTCAGGAGCCCTGG
AGCTGTTACATGTGTCTCCCGCAGCGCTGTCATGGCGTCCTGCGGCGCCGGAAGGACTGGAACGTGCGC
CTGCAGGCCTTCTTCACCAGTGACACGGGGCTTGAATATGAAGCCCCCAAGCTGTACCCTGCCATTCCC
GCAGCCCGAAGGCGGCCCATTCGAGTCCTGTCATTGTTTGATGGCATCGCGACAGGCTACCTAGTCCTC
AAAGAGTTGGGCATAAAGGTAGGAAAGTACGTCGCTTCTGAAGTGTGTGAGGAGTCCATTGCTGTTGGA
ACCGTGAAGCACGAGGGGAATATCAAATACGTGAACGACGTGAGGAACATCACAAAGAAAAATATTGAA
GAATGGGGCCCATTTGACTTGGTGATTGGCGGAAGCCCATGCAACGATCTCTCAAATGTGAATCCAGCC
AGGAAAGGCCTGTATGAGGGTACAGGCCGGCTCTTCTTCGAATTTTACCACCTGCTGAATTACTCACGC
CCCAAGGAGGGTGATGACCGGCCGTTCTTCTGGATGTTTGAGAATGTTGTAGCCATGAAGGTTGGCGAC
AAGAGGGACATCTCACGGTTCCTGGAGTGTAATCCAGTGATGATTGATGCCATCAAAGTTTCTGCTGCT
CACAGGGCCCGATACTTCTGGGGCAACCTACCCGGGATGAACAGGATCTTTGGCTTTCCTGTGCACTAC
ACAGACGTGTCCAACATGGGCCGTGGTGCCCGCCAGAAGCTGCTGGGAAGGTCCTGGAGCGTGCCTGTC
ATCCGACACCTCTTCGCCCCTCTGAAGGACTACTTTGCATGTGAATAG

Restriction Sites: SgfI-MluI

ACCN: NM_001207055

Insert Size: 2187 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:	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_001207055.1
RefSeq Size:	3978 bp
RefSeq ORF:	2187 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
MW:	81.3 kDa
Gene Summary:	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] Transcript Variant: This variant (7) lacks several in-frame exons compared to variant 1. The resulting isoform (7) has the same N- and C-termini but is shorter compared to isoform 1.