

Product datasheet for **SC307060**

Dnmt2 (TRDMT1) (NM_176083) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dnmt2 (TRDMT1) (NM_176083) Human Untagged Clone
Tag:	Tag Free
Symbol:	Dnmt2
Synonyms:	DMNT2; DNMT2; M.HsaIIP; PuMet; RNMT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC307060 representing NM_176083. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAGCCCTGCGGGTCTGGAGCTATACAGCGGCGTGGGCGGCATGCCACCGCGCTGAGAGAAAAGC
TGTATACCTGCACAAGTGGTGGCTGCCATTGATGTCAACACTGTCGCTAATGAAGTATACAAGTATAAT
TTTCTCACACACAGTTACTTGCCAAGACGATTGAAGGCATTACACTCGAAGAGTTTGACAGATTATCT
TTTGATATGATTTAATGAGCCCTCCCTGCCAGCCATTACAAGATTACAAAAATTACCAAAGTATATT
CTTTGGAAAATGTTAAAGGTTTGAAGTATCTTACAAGACCTCTTGATACAAACAATAGAAAAT
TGTGGCTTTCAGTACCAAGAGTTTCTATTATCTCCAACCTCTCTTGGCATTCAAATTC AAGGCTACGA
TATTTTCTTATTGCAAAGCTTCAGTCAGAGCCATTACCCTTTC AAGCCCTGGTCAGGTA CTGATGGAG
TTCCCCAAAATGAATCTGTACATCCACAAAAATATGCAATGGATGTAGAAAATAAAATTC AAGAAAAG
AACGTTGAACCAATATTAGCTTTGATGGCAGCATACAGTGTCTGGAAAAGATGCCATTCTTTTAAAG
CTTGAAACTGCAGAAGAAATTCACAGGAAAAATCAACAAGATAGTGATCTCTGTGAAAATGCTAAAA
GATTTTCTTGAAGATGACACTGACGTGAACCAGTATCTTTACCACAAAGTCATTGCTGCGATATGCT
CTTCTGTAGACATTGTTCAAGCCACTGTAGAAGGTCGGTGTGCTTTACCAAAGGATATGGAAGCTAC
ATAGAAGGACAGGGTCTGTGTTACAGACTGCAGAGGATGTGCAGGTTGAGAATATCTACAAATCCCTT
ACCAATTTGTCACAAGAAGAACAGATAACAAAGCTGTTAATACTTAAACTGCGATATTTCACTCCTAAA
GAAATAGCAAATCTCCTTGGATTTCTCCAGAGTTCGGATTTCTGAGAAGATAACAGTGAACAGCGT
TATCGCCTACTTGAAAATAGTCTCAACGTGCATGTAGTAGCTAAACTAATCAAAACTTATGAATAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: Sgfl-Mlul



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ACCN:	NM_176083
Insert Size:	1104 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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_176083.2</u>
RefSeq Size:	7209 bp
RefSeq ORF:	1104 bp
Locus ID:	1787
Cytogenetics:	10p13
Protein Families:	Druggable Genome
Protein Pathways:	Cysteine and methionine metabolism, Metabolic pathways
MW:	41.9 kDa
Gene Summary:	<p>This gene encodes a protein responsible for the methylation of aspartic acid transfer RNA, specifically at the cytosine-38 residue in the anticodon loop. This enzyme also possesses residual DNA-(cytosine-C5) methyltransferase activity. While similar in sequence and structure to DNA cytosine methyltransferases, this gene is distinct and highly conserved in its function among taxa. [provided by RefSeq, Jun 2010]</p> <p>Transcript Variant: This variant (b) lacks an alternate in-frame exon compared to variant a. The resulting isoform (b) has the same N- and C-termini but is shorter compared to isoform a.</p>