

Product datasheet for **SC307007**

DNMT3A (NM_175629) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: DNMT3A (NM_175629) Human Untagged Clone
Tag: Tag Free
Symbol: DNMT3A
Synonyms: DNMT3A2; HESJAS; M.HsaIIIA; TBRS
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_175629 edited
GACGCGGCCCGCGCCACCAGGGCGCGCAGCCGGGCCGCCCCACCCACCGGCCATACG
GTGGAGCCATCGAAGCCCCACCCACAGGCTGACAGAGGCCGTTCCACCAGAGGGCTCA
ACACCGGGATCTATGTTTAAAGTTTTAACTCTCGCCTCCAAAGACCACGATAATTCCTTCC
CCAAAGCCAGCAGCCCCCAGCCCCGCGCAGCCCCAGCCTGCCTCCCGCGCCCCAGATG
CCCCCATGCCCTCCAGCGGCCCGGGACACCAGCAGCTCTGCTGCGGAGCGGGAGGAG
GACCGAAAGGACGGAGAGGAGCAGGAGGAGCCGCGTGGCAAGGAGGAGCGCAAGAGCCC
AGCACCACGGCACGGAAGGTGGGGCGGCTGGGAGGAAGCGCAAGCACCCCCGGTGGAA
AGCGGTGACACGCCAAAGGACCTGCGGTGATCTCCAAGTCCCCATCCATGGCCCAGGAC
TCAGGCGCCTCAGAGCTATTACCAATGGGGACTTGGAGAAGCGGAGTGAGCCCCAGCCA
GAGGAGGGGAGCCCTGCTGGGGGCAGAAGGGCGGGCCCCAGCAGAGGGAGAGGGTGCA
GCTGAGACCCTGCCTGAAGCCTCAAGAGCAGTGGAAAATGGCTGCTGCACCCCCAAGGAG
GGCCGAGGAGCCCTGCAGAAGCGGGCAAAGAACAAGAAGGAGACCAACATCGAATCCATG
AAAATGGAGGGCTCCCGGGGCCGGCTGCGGGTGGCTTGGGTGGGAGTCCAGCCTCCGT
CAGCGGCCATGCCGAGGCTCACCTTCCAGGCGGGGGACCCCTACTACATCAGCAAGCGC
AAGCGGGACGAGTGGCTGGCACGCTGAAAAGGGAGGCTGAGAAGAAAGCCAAGGTCATT
GCAGGAATGAATGCTGTGGAAGAAAACCAGGGGCCCGGGAGTCTCAGAAGTGGAGGAG
GCCAGCCCTCCTGCTGTGCAGCAGCCACTGACCCGCATCCCCACTGTGGCTACCACG
CCTGAGCCGTGGGGTCCGATGCTGGGGACAAGAATGCCACCAAGCAGGCGATGACGAG
CCAGAGTACGAGGACGGCCGGGCTTTGGCATTGGGGAGCTGGTGTGGGGAAACTGCGG
GGCTTCTCCTGGTGGCCAGGCCGATTGTGCTTGGTGGATGACGGGCCGGAGCCGAGCA
GCTGAAGGACCCCGTGGGTGATGTGGTTCGGAGACGGCAAATTCAGTGGTGTGTGTT
GAGAAGCTGATGCCGCTGAGCTCGTTTTGCAGTGCCTTCCACCAGGCCACGTACAACAAG
CAGCCCATGTACCGCAAAGCCATCTACGAGTCTGCAGGTGGCCAGCAGCCGCGCGGGG
AAGCTGTTCCCGGTGTGCCACGACAGCGATGAGAGTGACACTGCCAAGGCCGTGGAGGTG
CAGAACAAGCCATGATTGAATGGGCCCTGGGGGCTTCCAGCCTTCTGGCCCTAAGGGC
CTGGAGCCACCAGAAGAAGAGAAGAATCCCTACAAGAAGTGTACACGGACATGTGGGTG



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GAACCTGAGGCAGCTGCCTACGCACCACCTCCACCAGCCAAAAAGCCCCGGAAGAGCACA
 GCGGAGAAGCCCAAGGTCAAGGAGATTATTGATGAGCGCACAAGAGAGCGGCTGGTGTAC
 GAGGTGCGGCAGAAGTCCCGAACATTGAGGACATCTGCATCTCCTGTGGGAGCCTCAAT
 GTTACCCTGGAACACCCCTCTTCGTTGGAGGAATGTGCCAAAACGCAAGAAGTCTTT
 CTGGAGTGTGCGTACCAGTACGACGACGACGGCTACCAGTCTACTGCACCATCTGCTGT
 GGGGGCCGTGAGGTGCTCATGTGCGGAAACAACAACTGCTGCAGGTGCTTTTTCGTTGGAG
 TGTGTGGACCTCTTGGTGGGGCCGGGGCTGCCAGGCAGCCATTAAGGAAGACCCCTGG
 AACTGCTACATGTGCGGGCACAAGGTACCTACGGGCTGCTGCGCGCGCAGAGGACTGG
 CCCTCCCGGCTCCAGATGTTCTTCGCTAATAACCACGACCAGGAATTTGACCCTCCAAAG
 GTTTACCACCTGTCCCAGCTGAGAAGAGGAAGCCATCCGGGTGCTGTCTCTCTTTGAT
 GGAATCGTACAGGGCTCCTGGTCTGAAGGACTTGGGCATTAGGTGGACCGCTACATT
 GCCTCGGAGGTGTGTGAGGACTCCATCACGGTGGGCATGGTGGGCACCAGGGGAAGATC
 ATGTACGTGCGGGACGTCCGACGCTCACACAGAAGCATATCCAGGAGTGGGGCCATTC
 GATCTGGTGATTGGGGCAGTCCCTGCAATGACCTCTCCATCGTCAACCCTGCTCGCAAG
 GGCTCTACGAGGGCACTGGCCGGCTCTTCTTTGAGTTCTACCGCTCCTGCATGATGCG
 CGGCCAAGGAGGAGATGATCGCCCTTCTTCTGGCTCTTTGAGAATGTGGTGGCCATG
 GCGTTAGTGACAAGAGGGACATCTCGGATTTCTCGAGTCCAACCTGTGATGATTGAT
 GCCAAAGAAGTGTGAGTGCACACAGGGCCCGCTACTTCTGGGGTAACTTCCCGGTATG
 AACAGGCCGTTGGCATCCACTGTGAATGATAAGCTGGAGCTGCAGGAGTGTCTGGAGCAT
 GGCAGGATAGCCAAGTTCAGCAAAGTGGAGACCATTACTACGAGGTCAAACCTCATAAAG
 CAGGGCAAAGACCAGCATTTTCTGTCTTCATGAATGAGAAAGAGGACATCTTATGGTGC
 ACTGAAATGGAAGGGTATTTGGTTTCCAGTCCACTATACTGACGTCTCCAACATGAGC
 CGCTTGGCGAGGCAGAGACTGCTGGGCCGGTTCATGGAGCGTGCCAGTTCATCGGCCACTC
 TTCGCTCCGCTGAAGGAGTATTTTTCGCTGTGTGAAGGGACATGGGGCAAACGAGGTA
 GCGACACAAAGTTAAACAAACAAACAAAAACACAAAACATAATAAAACACCAAGAACAT
 GAGGATGGAGAGAAGTATCAGCACCCAGAAAGAGAAAAAGGAATTTAAACAAAAACCACA
 GAGGCGGAAATACCGGAGGGCTTTGCCTTGCGAAAAGGGTGGACATCATCTCCTGATTT
 TTCAATGTTATTCTTCAGTCTATTTAAAAACAAAACCAAGCTCCCTTCCCTTCTCCCC
 CTTCCCTTTTTTTTCGGTCAGACCTTTTATTTTCTACTTTTTTCAGAGGGGTTTTCTGTT
 TGTTTGGGTTTTGTTTCTTGTGACTGAAACAAGAAGTTATTGCAGCAAAAATCAGT
 AACAAAAATAGTAACAATACCTTGCAGAGGAAAGGTGGGAGAGAGGAAAAAAGGAAAT
 TCTATAGAAATCTATATATTGGGTGTTTTTTTTTTTTGTTTTTTTTTTTTTTTTGGGT
 TTTTTTTTTTACTATATATCTTTTTTTTTGTTGTCTCTAGCCTGATCAGATAGGAGCACAA
 GCAGGGGACGGAAGAGAGAGACTCAGGCGGCAGCATTCCCTCCCAGCCACTGAGCTG
 TCGTGCCAGCACCATTCTGGTCACGAAAACAGAACCCAGTTAGCAGCAGGGAGACGAG
 AACACCACACAAGACATTTTTCTACAGTATTTACAGGTGCCTACCACACAGGAAACCTTGA
 AGAAAAATCAGTTTCTAGAAGCCGCTGTTACCTCTGTTTACAGTTTATATATATATGATA
 GATATGAGATATATATAAAAAGTACTGTTAACTACTGTACAACCCGACTTCATAATGG
 TGCTTTCAAACAGCGAGATGAGTAAAAACATCAGCTTCCAGTTGCCTTCTGCGCAAAGG
 GTTTCACCAAGGATGGAGAAAGGAGACAGCTTGCAGATGGCGGTTCTCACGGTGGGCT
 CTTCCCTTGGTTTGAACGAAGTGAAGGAGGAGAACTTGGGAGCCAGGTTCTCCCTGCC
 AAAAAGGGGGCTAGATGAGGTGGTGGGCGCCGTGGACAGCTGAGAGTGGGATTCATCCAG
 ACTCATGCAATAACCCTTTGATTGTTTTCTAAAAGGAGACTCCCTCGGCAAGATGGCAGA
 GGGTACGGAGTCTCAGGCCAGTTTCTACTTTAGCCAATTCGAGGGCTCCTTGTGGTG
 GGATCAGAACTAATCCAGAGTGTGGAAAGTGACAGTCAAACCCACCTGGAGCAAATA
 AAAAAACATACAAAACGTAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire
ACCN: NM_175629
Insert Size: 4300 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_175629.1.
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_175629.1 , NP_783328.1
RefSeq Size:	4395 bp
RefSeq ORF:	2739 bp
Locus ID:	1788
UniProt ID:	Q9Y6K1
Cytogenetics:	2p23.3
Protein Families:	Druggable Genome
Protein Pathways:	Cysteine and methionine metabolism, Metabolic pathways
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 that is thought to function in de novo methylation, rather than maintenance methylation. The protein localizes to the cytoplasm and nucleus and its expression is developmentally regulated. [provided by RefSeq, Mar 2016]