

Product datasheet for **MC200622**

Dnmt3a (NM_007872) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dnmt3a (NM_007872) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dnmt3a
Synonyms:	MmullIA
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC007466 sequence for NM_007872
 CCCACGCGTCCGCCACGCGTCCGCGCCGCGGCAGCAGGGCGAGCCGGGCCCGCCACCCGCGGGCCAC
 ACGGCAGAGCCGCTGAAGCCCAGCGCTGAGGCTGCACCTTTCCGAGGGCTTGACATCAGGGTCTATGTT
 TAAGTCTTAGCTCTTGCTTACAAAGACCACGGCAATTCCTTCTCTGAAGCCCTCGCAGCCCCACAGCGCC
 CTCGCAGCCCCAGCCTGCCGCTACTGCCAGCAATGCCCTCCAGCGGCCCGGGGACACCAGCAGCTCC
 TCTCTGGAGCGGGAGGATGATCGAAAGGAAGGAGGAACAGGAGGAGAACCCTGGCAAGGAAGAGCGCC
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 CAGTGACACCCCCAAGGACCCAGCAGTGACCACCAAGTCTCAGCCATGGCCAGGACTCTGGCCCTCA
 GATCTGCTACCAATGGAGACTTGGAGAAGCGGAGTGAACCCCACTGAGGAGGGGAGCCAGCTGCAG
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 AACATCGAATCCATGAAAATGGAGGGCTCCCGGGCCGACTGCGAGGTGGCTTGGCTGGGAGTCCAGCC
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ACGATGGGTACCAGTCTATTGCACCATCTGCTGTGGGGGGCGTGAAGTGCTCATGTGTGGGAACAACAA
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CATATCACCCCCACCCCTGCCCATGCCTAGCTTACCTGCCAAAAAGGGGCTCAGCTGAGGTGGTCGG
ACCCTGGGAAGCTGAGTGTGGAATTTATCCAGACTCGCGTGCAATAACCTTAGAATATGAATCTAAAT
GACTGCCTCAGAAAAA AAAAAAAAAAAAAAAAAAAAAA
    
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Restriction Sites:

RsrII-NotI

ACCN:

NM_007872

Insert Size:

2727 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: [BC007466](#), [AAH07466](#)

RefSeq Size: 4094 bp

RefSeq ORF: 2727 bp

Locus ID: 13435

UniProt ID: [O88508](#)

Cytogenetics: 12 A1.1

Gene Summary: This is one of two related genes encoding de novo DNA methyltransferases, which are responsible for the establishment of DNA methylation patterns in embryos. Loss of function of this gene causes developmental defects in multiple different organ systems. There is a pseudogene for this gene located on chromosome 3. Alternatively spliced transcript variants encoding multiple isoforms have been observed. [provided by RefSeq, Nov 2012]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (1, also known as Dnmt3a1). Variants 1 and 3 encode the same isoform (1).
Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.