

Product datasheet for **MR226152**

Dnmt3a (NM_153743) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dnmt3a (NM_153743) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dnmt3a
Synonyms:	MmullIA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR226152 representing NM_153743
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAATGCTGTGGAAGAGAACCAGGCCTCTGGAGAGTCTCAGAAGGTGGAGGAGGCCAGCCCTCTGCTG
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 GGACAAGAATGCTACAAAGCAGCCGACGATGAGCCTGAGTATGAGGATGGCCGGGGCTTTGGCATTGGA
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 CCTCTTCGCTCCGCTGAAGGAATATTTGCTTGTGTG

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Protein Sequence: >MR226152 representing NM_153743
Red=Cloning site Green=Tags(s)

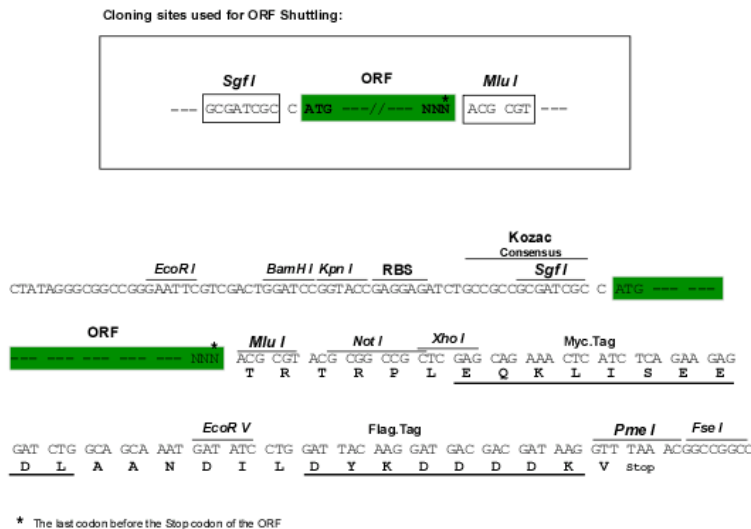
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 AAIKEDPWNCYMGHGKTYGLLRREDWPSRLQMFFANNHDQEFDPKPYPPVPAEKRPKIRVLSLFDGI
 ATGLLVKDLGIQVDRIASEVCEDSITVGMVRHQGKIMYVGDVRSVTQKHIQEWGPFDLVIGGSPCNDL
 SIVNPARKGLYEGTGRLFFEFYRLLHDARPKEGDDRRPFFWL FENVVAMGVSDKRDISRFLSNPVMIDAK
 EVSAAHRARYFWGNLPGMNRPLASTVNDKLELQECLEHGRIAKFSKVRTITTRSNSIKQGDQHPVFMN
 EKEDI LWCTEMERVFGFPVHYTDVSNMSRLARQLLRGSWSVPVIRHLFAPLKEYFACV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_153743

ORF Size: 2067 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_153743.4](#), [NP_714965.1](#)

RefSeq Size: 8913 bp

RefSeq ORF: 2070 bp

Locus ID: 13435

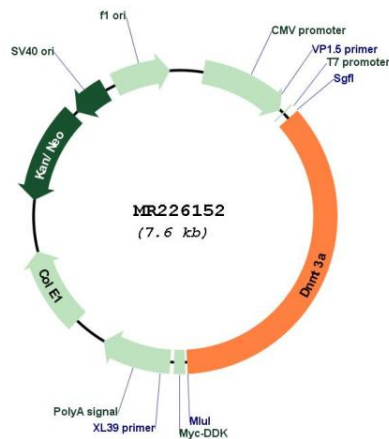
UniProt ID: [O88508](#)

Cytogenetics: 12 A1.1

MW: 78.3 kDa

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]

Product images:



Circular map for MR226152