

Product datasheet for **MG226152**

Dnmt3a (NM_153743) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dnmt3a (NM_153743) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dnmt3a
Synonyms:	MmullIA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG226152 representing NM_153743
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAATGCTGTGGAAGAGAACCAGGCCTCTGGAGAGTCTCAGAAGGTGGAGGAGGCCAGCCCTCTGCTG
 TGACAGCAGCCACGGACCCTGCTTCTCCGACTGTGGCCACCACCCTGAGCCAGTAGGAGGGGATGCTGG
 GGACAAGAATGCTACAAAGCAGCCGACGATGAGCCTGAGTATGAGGATGGCCGGGGCTTTGGCATTGGA
 GAGCTGGTGTGGGGAAACTTCGGGGCTTCTCCTGGTGGCCAGGCCGAATTGTGTCTTGGTGGATGACAG
 GCCGGAGCCGAGCAGCTGAAGGCACTCGCTGGGTGATGTGGTTCGGAGATGGCAAGTTCTCAGTGGTGTG
 TGTGGAGAAGCTCATGCCGCTGAGCTCCTTCTGCAGTGCATTCCACCAGGCCACCTACAACAAGCAGCCC
 ATGTACCCCAAAGCCATCTACGAAGTCTCCAGGTGGCCAGCAGCCGTGCCGGGAAGCTGTTCCAGCTT
 GCCATGACAGTGTAAAGTGACAGTGGCAAGGCTGTGGAAGTGCAGAACAAGCAGATGATTGAATGGGC
 CCTCGGTGGCTTCCAGCCCTCGGGTCTAAGGGCCTGGAGCCACCAGAAGAAGAGAAGAATCCTTACAAG
 GAAGTTTACACCGACATGTGGGTGGAGCCTGAAGCAGCTGCTTACGCCCCACCCACCAGCCAAGAAAC
 CCAGAAAGAGCACAACAGAGAAACCTAAGGTCAAGGAGATCATTGATGAGCGCACAGGGAGCGGCTGGT
 GTATGAGGTGCGCCAGAAGTGCAGAAACATCGAGGACATTTGTATCTCATGTGGGAGCCTCAATGTCACC
 CTGGAGACCCACTCTTCATTGGAGGCATGTGCCAGAAGTGAAGAAGTCTTCTTGGAGTGTGCTTACC
 AGTATGACGACGATGGGTACCAGTCTATTGCACCATCTGCTGTGGGGGGCGTGAAGTGCATGTGTGG
 GAACAACAAGTGTGCAGGTGCTTTTGTGTCGAGTGTGTGGATCTTGGTGGGGCCAGGAGCTGCTCAG
 GCAGCCATTAAGGAAGACCCCTGGAAGTGTACATGTGCGGGCATAAGGGCACCTATGGGCTGCTGCGAA
 GACGGGAAGACTGGCCTTCTCGACTCCAGATGTTCTTTGCCAATAACCATGACCAGGAATTTGACCCCCC
 AAAGGTTTACCCACCTGTGCCAGCTGAGAAGAGGAAGCCCATCCGCGTGTGTCTCTTTGATGGGATT
 GCTACAGGGCTCCTGGTGTGAAGGACCTGGGCATCCAAGTGGACCCTACATTGCCTCCGAGGTGTGTG
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 CACACAGAAGCATATCCAGGAGTGGGGCCATTGACCTGGTATTGGAGGCAGTCCCTGCAATGACCTC
 TCCATTGTCAACCCTGCCCGCAAGGGACTTTATGAGGGTACTGGCCGCTCTTCTTTGAGTTCTACCGCC
 TCCTGCATGATGCGCGGCCAAGGAGGGAGATGATCGCCCTTCTTGGCTCTTTGAGAATGTGGTGGC
 CATGGGCGTTAGTGACAAGAGGGACATCTCGGATTTCTTGAAGTCTAACCCCGTGTGATTGACGCCAAA
 GAAGTGTCTGCTGCACACAGGGCCGTTACTTCTGGGGTAACTTCTTGGCATGAACAGGCCTTTGGCAT
 CCACTGTGAATGATAAGCTGGAGCTGCAAGAGTGTCTGGAGCACGCGAGAATAGCCAAGTTCAGCAAAGT
 GAGGACATTACCACCAGGTCAAACCTATAAAGCAGGGCAAAGACCAGCATTTCGCCGTTTCATGAAC
 GAGAAGGAGGACATCCTGTGGTGCAGTAAATGGAAAGGGTGTGGCTTCCCGTCCACTACACAGACG
 TCTCCAACATGAGCCGTTGGCGAGGCAGAGACTGCTGGGCCGATCGTGGAGCGTGCCGGTTCATCCGCCA
 CCTCTTCGCTCCGCTGAAGGAATATTTGCTTGTGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG226152 representing NM_153743
 Red=Cloning site Green=Tags(s)

MNAVEENQASGESQKVEEASPPAVQQPTDPASPTVATTPEPVGGDAGDKNATKAADDEPEYEDGRGFGIG
 ELVWGKLRGFSWWPGRIVSWWMTGRSRAAEGTRWVMWFGDGKFSVVCVEKLMPLSSFCSAFHQATYNKQP
 MYRKAIYEVQLQVASSRAGKLPACHDSDSDSGKAVEVQNKQMIIEWALGGFQPSGPKGLEPPEEEKNPYK
 EYVYDMMWVEPEAAAYAPPPPAKKPRKSTTEKPKVKEIIDERTRERLVYEVQRKCRNIEDICISGSLNVT
 LEHPLFIGMCCQCKNCFLECAQYQYDDGYQSYCTICCGGREVL MCGNCCRCFCVECDLLVGPAAQ
 AAIKEDPWNCYMGHGKTYGLLRREDWPSRLQMFFANNHDQEFDPKPYPPVPAEKRPKIRVLSLFDGI
 ATGLLVKDLGIQVDRIASEVCEDESITVGMVRHQGKIMYVGDVRSVTQKHIQEWGPFDLVIGGSPCNDL
 SIVNPARKGLYEGTGRLFFEFYRLLHDARPKEGDDRRPFFWL FENVVAMGVSDKRDISRFLSNPVMIDAK
 EVSAAHRARYFWGNLPGMNRPLASTVNDKLELQECLEHGRIAKFSKVRTITTRSNSIKQGDQHPVFMN
 EKEDILWCTEMERVFGFPVHYTDVSNMSRLARQRLGRSWSVPVIRHLFAPLKEYFACV

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-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

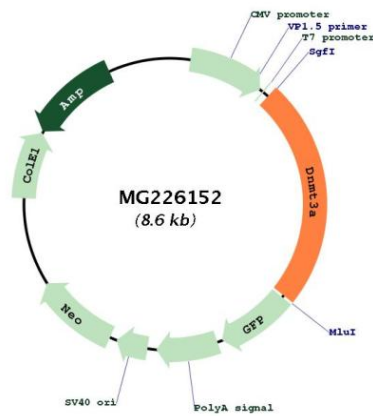
Locus ID: 13435

UniProt ID: [O88508](#)

Cytogenetics: 12 A1.1

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 MG226152