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Product datasheet for MR225606

Dnmt3b (NM_001122997) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dnmt3b (NM_001122997) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dnmt3b
Synonyms:	MmuIIIB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR225606 representing NM_001122997
Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGGGAGACAGCAGACATCTGAATGAAGAAGAGGGTGCCAGCGGGTATGAGGAGTGCATTATCGTTA
ATGGGAACTTCAGTGACCAGTCCTCAGACACGAAGGATGCTCCCTCACCCCCAGTCTTGGAGGCAATCTG
CACAGAGCCAGTCTGCACACCAGAGACCAGAGGCCGCAGGTCAAGCTCCCGGCTGTCTAAGAGGGAGGTC
TCCAGCCTTCTGAATTACACGCAGGACATGACAGGAGATGGAGACAGAGATGATGAAGTAGATGATGGGA
ATGGCTCTGATATTCTAATGCCAAAGCTCACCCGTGAGACCAAGGACACCAGGACGCGCTCTGAAAGCCC
GGCTGTCCGAACCCGACATAGCAATGGGACCTCCAGCTTGGAGAGGCAAAGAGCCTCCCCCAGAATCACC
CGAGGTCGGCAGGGCCGCCACCATGTGCAGGAGTACCCTGTGGAGTTTCCGGCTACCAGGTCTCGGAGAC
GTCGAGCATCGTCTTCAGCAAGCACGCCATGGTCATCCCCTGCCAGCGTCGACTTCATGGAAGAAGTGAC
ACCTAAGAGCGTCAGTACCCCATCAGTTGACTTGAGCCAGGATGGAGATCAGGAGGGTATGGATACCACA
CAGGTGGATGCAGAGAGCAGAGATGGAGACAGCACAGAGTATCAGGATGATAAAGAGTTTGGAATAGGTG
ACCTCGTGTGGGGAAAGATCAAGGGCTTCTCCTGGTGGCCTGCCATGGTGGTGTCCTGGAAAGCCACCTC
CAAGCGACAGGCCATGCCCGGAATGCGCTGGGTACAGTGGTTTGGTGATGGCAAGTTTTCTGAGATCTCT
GCTGACAAACTGGTGGCTCTGGGGCTGTTCAGCCAGCACTTTAATCTGGCTACCTTCAATAAGCTGGTTT
CTTATAGGAAGGCCATGTACCACACTCTGGAGAAAGCCAGGGTTCGAGCTGGCAAGACCTTCTCCAGCAG
TCCTGGAGAGTCACTGGAGGACCAGCTGAAGCCCATGCTGGAGTGGGCCCACGGTGGCTTCAAGCCTACT
GGGATCGAGGGCCTCAAACCCAACAAGAAGCAACCAGTGGTTAATAAGTCGAAGGTGCGTCGTTCAGACA
GTAGGAACTTAGAACCCAGGAGACGCGAGAACAAAAGTCGAAGACGCACAACCAATGACTCTGCTGCTTC
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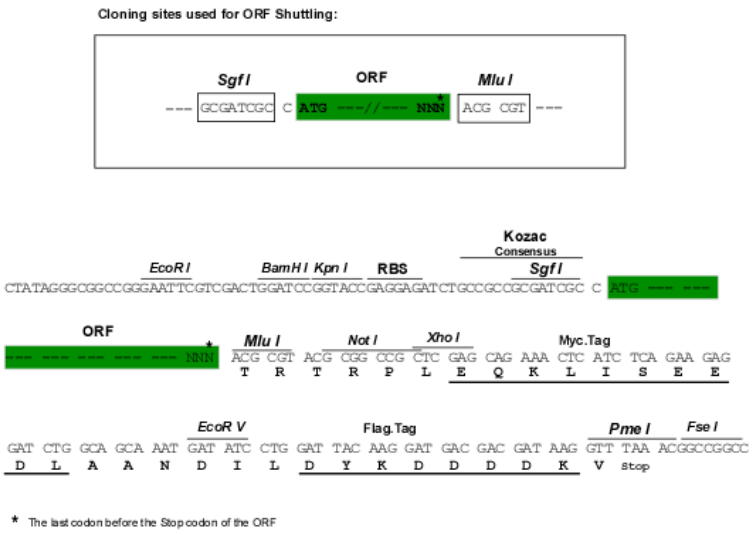
AGCCGAGAACGGATGGCTTCTGAAGTCACCAACAACAAGGGCAATCTGGAAGACCGCTGTTTGTCCTGTG
GAAAGAAGAACCCTGTGTCCTTCCACCCCCTCTTTGAGGGTGGGCTCTGTCAGAGTTGCCGGGATCGCTT
CCTAGAGCTCTTCTACATGTATGATGAGGACGGCTATCAGTCCTACTGCACCGTGTGCTGTGAGGGCCGT
GAACTGCTGCTGTGCAGTAACACAAGCTGCTGCAGATGCTTCTGTGTGGAGTGTCTGGAGGTGCTGGTGG
GCGCAGGCACAGCTGAGGATGCCAAGCTGCAGGAACCCTGGAGCTGCTATATGTGCCTCCCTCAGCGCTG
CCATGGGGTCCTCCGACGCAGGAAAGATTGGAACATGCGCCTGCAAGACTTCTTCACTACTGATCCTGAC
CTGGAAGAATTTCAGGAGCCACCCAAGTTGTACCCAGCAATTCCTGCAGCCAAAAGGAGGCCCATTAGAG
TCCTGTCTCTGTTTGATGGAATTGCAACGGGGTACTTGGTGCTCAAGGAGTTGGGTATTAAAGTGGAAAA
GTACATTGCCTCCGAAGTCTGTGCAGAGTCCATCGCTGTGGGAACTGTTAAGCATGAAGGCCAGATCAAA
TATGTCAATGACGTCCGGAAAATCACCAAGAAAAATATTGAAGAGTGGGGCCCGTTCGACTTGGTGATTG
GTGGAAGCCCATGCAATGATCTCTCTAACGTCAATCCTGCCCGCAAAGGTTTATATGAGGGCACAGGAAG
GCTCTTCTTCGAGTTTTACCACTTGCTGAATTATACCCGCCCCAAGGAGGGCGACAACCGTCCATTCTTC
TGGATGTTCGAGAATGTTGTGGCCATGAAAGTGAATGACAAGAAAGACATCTCAAGATTCCTGGCATGTA
ACCCAGTGATGATCGATGCCATCAAGGTGTCTGCTGCTCACAGGGCCCGGTACTTCTGGGGTAACCTACC
CGGAATGAACAGGCCCGTGATGGCTTCAAAGAATGATAAGCTCGAGCTGCAGGACTGCCTGGAGTTCAGT
AGGACAGCAAAGTTAAAGAAAGTGCAGACAATAACCACCAAGTCGAACTCCATCAGACAGGGCAAAAACC
AGCTTTTCCCTGTAGTCATGAATGGCAAGGACGACGTTTTGTGGTGCACTGAGCTCGAAAGGATCTTCGG
CTTCCCTGCTCACTACACGGACGTGTCCAACATGGGCCGCGGCGCCCGTCAGAAGCTGCTGGGCAGGTCC
TGGAGTGTACCGGTCATCAGACACCTGTTTGCCCCCTTGAAGGACTACTTTGCCTGTGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001122997

ORF Size: 2580 bp

OTI Disclaimer: 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.

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.

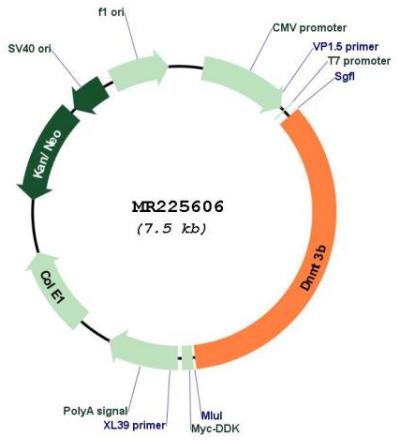
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_001122997.1, NM_001122997.2, NP_001116469.1
RefSeq Size:	4229 bp
RefSeq ORF:	2583 bp
Locus ID:	13436
Cytogenetics:	2 H1
MW:	97.8 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 results in severe developmental defects and loss of viability. Mutation of the related gene in humans causes immunodeficiency-centromeric instability-facial anomalies (ICF) syndrome. There is a pseudogene for this gene located adjacent to this gene in the same region of chromosome 2. Alternatively spliced transcript variants encoding multiple isoforms have been observed. [provided by RefSeq, Nov 2012]

Product images:



Circular map for MR225606