

Product datasheet for **MR229826**

Dnmt3l (NM_001284197) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dnmt3l (NM_001284197) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dnmt3l
Synonyms:	D6Ertd14; D6Ertd14e; ecat; ecat7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR229826 representing NM_001284197
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGTTCCCGGGAGACACCTTCTTCTGTCTAAGACCTTGAACCTTGGACCTGGAGACTTCCGACA
 GCTCTAGCCCTGATGCTGACAGTCTCTGGAAGAGCAATGGCTGAAATCCTCCCCAGCCCTGAAGGAGGA
 CAGTGTGGATGTGGTACTGGAAGACTGCAAAGAGCCTCTGTCCCCCTCTCGCCTCCGACAGGCAGAGAG
 ATGATCAGGTACGAAGTCAAAGTGAACCGACGGAGCATTGAAGACATCTGCCTCTGCTGTGGAACCTCC
 AGGTGTACTACTCGGCACCCCTTGTGTTGAGGGAGGGTTATGTGCCCATGTAAGGATAAGTTCCTGGAGTC
 CCTCTTCTGTATGATGATGATGGACACCAGATTACTGCACCATCTGCTGTTCCGGGGTACCCTGTTC
 ATCTGTGAGAGCCCCGACTGTACCAGATGCTACTGTTTCGAGTGTGTGGACATCCTGGTGGGCCCCGGGA
 CCTCAGAGAGGATCAATGCCATGGCCTGCTGGGTTTGTCTCTGTGCCTGCCCTTCTCACGGAGTGGACT
 GCTGCAGAGGCGCAAGAGGTGGCGGCACCAGCTGAAGGCCTTCCATGATCAAGAGGGAGCGGGCCCTATG
 GAGATATACAAGACAGTGTCTGCATGGAAGAGACAGCCAGTGCGGTACTGAGCCTTTTTAGAAATATTG
 ATAAAGTACTAAAGAGTTTGGGCTTTTTGGAAAGCGGTTCTGTTTCTGGGGGAGGAACGCTGAAGTACGT
 GGAAGATGTCACAAATGTCGTGAGGAGAGACGTGGAGAAATGGGGCCCTTTGACCTGGTGTACGGCTCG
 ACGCAGCCCTAGGCAGCTTTGTGATCGCTGTCCCGGCTGGTACATGTTCCAGTTCACCCGGATCCTGC
 AGTATGCGCTGCCTCGCCAGGAGAGTACGCGGCCCTTCTTCTGGATATTCATGGACAATCTGCTGCTGAC
 TGAGGATGACCAAGAGACAACACTACCCGCTTCTTTCAGACAGAGGCTGTGACCCTCCAGGATGTCCGTGGC
 AGAGACTACCAGAATGCTATGCGGGTGTGGAGCAACATTCCAGGGCTGAAGAGCAAGCATGCGCCCTGA
 CCCCAGGAAGAAGAGTATCTGCAAGCCCAAGTCAGAAGCAGGAGCAAGCTGGACGCCCCGAAAGTTGA
 CCTCTGGTGAAGAACTGCCTTCTCCCGCTGAGAGAGTACTTCAAGTATTTTTCTCAAACTCACTTCTCT
 CTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR229826 representing NM_001284197
 Red=Cloning site Green=Tags(s)

MGSRETPSSCSKTLETLDLETSDSSSPDADSPLEEQWLKSSPALKEDSVDVVLVLEDCKEPLSPSSPPTGRE
 MIRYEVKVNRRSIEDICLCCGTLQVYTRHPLFEGGLCAPCKDKFLESFLYDDDGHQSYCTICSSGGTLF
 ICESPDCTRCYCFECVDILVPGTSEINAMACWVCFLLPFSSRGLLQRRKRWRHQLKAFHDQEGAGPM
 EIYKTVSAWKRPVRLSLFRNIDKVLKSLGFLESGSGSGGTLKYVEDVTNVVRRDVEKWGPFDLVYGS
 TQPLGSSCDRCPGWYMFQFHRILQYALPRQESQRPFFWIFMDNLLLTEDDQETTRFLQTEAVTLQDVRG
 RDYQNAMRVWSNIPGLKSKHAPLTPKEEYLQAQVRSRSLDAPKVDLLVKNCLLPLREYFKYFSQNSLP
 L

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001284197

ORF Size: 1263 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_001284197.1](#), [NP_001271126.1](#)

RefSeq Size: 1672 bp

RefSeq ORF: 1266 bp

Locus ID: 54427

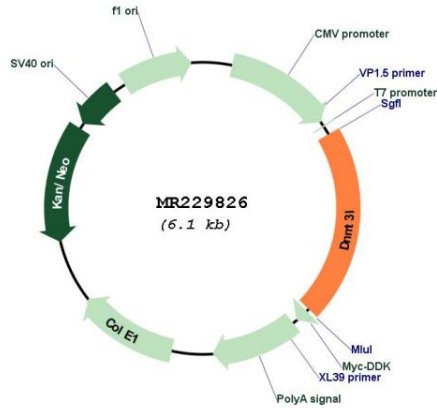
UniProt ID: [Q9CWR8](#)

Cytogenetics: 10 39.72 cM

MW: 48 kDa

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 nuclear protein that is a catalytically inactive regulatory factor of DNA methyltransferases. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2015]

Product images:



Circular map for MR229826