

Product datasheet for **MR227985**

Dnmt3l (NM_001284198) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Dnmt3l (NM_001284198) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Dnmt3l
Synonyms: D6Ertd14; D6Ertd14e; ecat; ecat7
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR227985 representing NM_001284198
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTTCCAGTTCACCGATCCTGCAGTATGCGCTGCCTCGCCAGGAGAGTCAGCGGCCCTTCTTCTGGA
TATTCATGGACAATCTGCTGCTGACTGAGGATGACCAAGAGACAACCTACCCGCTTCCTTCAGACAGAGGC
TGTGACCTCCAGGATGTCGGTGGCAGAGACTACCAGAATGCTATGCGGGTGTGGAGCAACATTCAGGG
CTGAAGAGCAAGCATGCGCCCTGACCCCAAAGGAAGAAGAGTATCTGCAAGCCCAAGTCAGAAGCAGGA
GCAAGCTGGACGCCCGAAAGTTGACCTCTGGTGAAGAAGTGCCTTCTCCCGCTGAGAGAGTACTTCAA
GTATTTTCTCAAACTCACTTCTCTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR227985 representing NM_001284198
Red=Cloning site Green=Tags(s)

MFQFHRILQYALPRQESQRPFWFIFMDNLLLTEDDQETTTRFLQTEAVTLQDVRGRDYQNAMRVWSNIPG
LKSKHAPLTPKEEYLQAQVRSRSLDAPKVDLLVKNCLLPLREYFKYFSQNSLPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

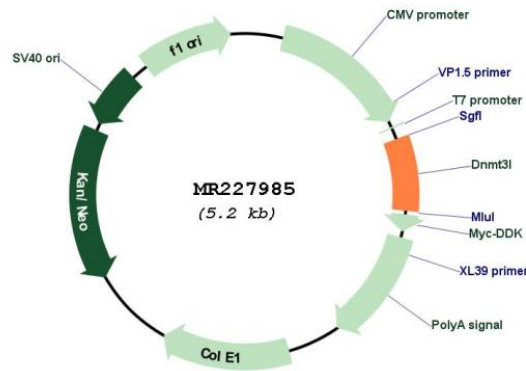


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Cloning Scheme:



Plasmid Map:



ACCN:

NM_001284198

ORF Size:

378 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:	<ol style="list-style-type: none">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:	<u>NM_001284198.1</u> , <u>NP_001271127.1</u>
RefSeq Size:	1468 bp
RefSeq ORF:	381 bp
Locus ID:	54427
Cytogenetics:	10 39.72 cM
MW:	15.5 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]