

## Product datasheet for MC225774

### Dnmt3l (NM\_001284198) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dnmt3l (NM_001284198) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dnmt3l
Synonyms:	D6Ertd14; D6Ertd14e; ecac; ecac7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC225774 representing NM_001284198 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGTTCCAGTTCACCGGATCCTGCAGTATGCGCTGCCTCGCCAGGAGAGTCAGCGGCCCTTCTTCTGGA  
 TATTTCATGGACAATCTGCTGCTGACTGAGGATGACCAAGAGACAACCTACCGCTTCCTTCAGACAGAGGC  
 TGTGACCTCCAGGATGTCGCTGGCAGAGACTACCAGAATGCTATGCGGGTGTGGAGCAACATTCCAGGG  
 CTGAAGAGCAAGCATGCGCCCTGACCCCAAAGGAAGAAGAGTATCTGCAAGCCCAAGTCAGAAGCAGGA  
 GCAAGCTGGACGCCCCGAAAGTTGACCTCCTGGTGAAGAAGTGCCTTCTCCGCTGAGAGAGTACTTCAA  
 GTATTTTCTCAAACTCACTTCCTCTTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001284198
Insert Size:	381 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).


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<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<u>NM_001284198.1</u> , <u>NP_001271127.1</u>
<b>RefSeq Size:</b>	1468 bp
<b>RefSeq ORF:</b>	381 bp
<b>Locus ID:</b>	54427
<b>Cytogenetics:</b>	10 39.72 cM
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (4) is expressed in testis (PMID: 17060371). It contains alternate 5' UTR exons, lacks a portion of the 5' coding region, and initiates translation at a downstream AUG start codon, compared to variant 1. The resulting isoform (2) has a shorter N-terminus compared to isoform 1. Variants 4, 5 and 6 encode the same isoform (2).</p>