

## Product datasheet for **MC227615**

### **Dnmt3l (NM\_001284197) Mouse Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Dnmt3l (NM\_001284197) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Dnmt3l  
**Synonyms:** D6Ertd14; D6Ertd14e; ecat; ecat7  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC227615 representing NM\_001284197  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGC**C

ATGGGTTCCCGGGAGACACCTTCTTCTTGCTCTAAGACCCTTGAAACCTGGACCTGGAGACTTCCGACA  
 GCTCTAGCCCTGATGCTGACAGTCTCTGGAAGAGCAATGGCTGAAATCCTCCAGCCCTGAAGGAGGA  
 CAGTGTGGATGTGGTACTGGAAGACTGCAAAGAGCCTCTGTCCCCTCCTCGCCTCCGACAGGCAGAGAG  
 ATGATCAGGTACGAAGTCAAAGTGAACCGACGGAGCATTGAAGACATCTGCCTCTGCTGTGGAACCTCC  
 AGGTGTACACTCGGCACCCCTTGTTTGAGGGAGGGTTATGTGCCCATGTAAGGATAAGTTCCTGGAGTC  
 CCTCTTCTGTATGATGATGATGGACACCAGAGTTACTGCACCATCTGCTGTTCCGGGGGTACCCTGTT  
 ATCTGTGAGAGCCCCGACTGTACCAGATGCTACTGTTTCGAGTGTGTGGACATCCTGGTGGGCCCGGGA  
 CCTCAGAGAGGATCAATGCCATGGCCTGCTGGGTTTGCTTCTGTGCCTGCCCTTCTCACGGAGTGGACT  
 GCTGCAGAGGGCAAGAGGTGGCGGCACCAGCTGAAGGCCTTCCATGATCAAGAGGGAGCGGGCCCTATG  
 GAGATATAACAAGACAGTGTCTGCATGGAAGAGACAGCCAGTCCGGTACTGAGCCTTTTAGAAATATTG  
 ATAAAGTACTAAAGAGTTTGGGCTTTTGGAAAGCGGTTCTGGTCTGGGGGAGGAACGCTGAAGTACGT  
 GGAAGATGTACAAATGTCGTGAGGAGAGACGTGGAGAAATGGGCCCCCTTGGACCTGGTGTACGGCTCG  
 ACGCAGCCCTTAGGCAGCTCTTGTGATCCTGTCCCGGCTGGTACATGTTCCAGTTCACCAGGATCCTGC  
 AGTATGCGCTGCCTCGCCAGGAGAGTACAGCGCCCTTCTTCTGGATATTCATGGACAATCTGCTGCTGAC  
 TGAGGATGACCAAGAGACAACCTACCCGCTTCTTTCAGACAGAGGCTGTGACCCTCCAGGATGTCCGTGGC  
 AGAGACTACCAGAATGCTATGCGGGTGTGGAGCAACATTCAGGGCTGAAGAGCAAGCATGCGCCCTGA  
 CCCCAAAGGAAGAAGAGTATCTGCAAGCCCAAGTCAAGAGCAGGAGCAAGCTGGACGCCCGAAAGTTGA  
 CCTCCTGGTGAAGAACTGCCTTCTCCCGCTGAGAGAGTACTTCAAGTATTTTTCTCAAACCTCACTTCT  
 CTT**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_001284197
<b>Insert Size:</b>	1266 bp
<b>OTI Disclaimer:</b>	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).
<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>RefSeq:</b>	<u>NM_001284197.1, NP_001271126.1</u>
<b>RefSeq Size:</b>	1672 bp
<b>RefSeq ORF:</b>	1266 bp
<b>Locus ID:</b>	54427
<b>UniProt ID:</b>	<u>Q9CWR8</u>
<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 (3) is expressed in testis, thymus, ovary, and heart, as well as in 7-day, 15-day, and 17-day embryo (PMID: 11306809). It differs in the 5' UTR, compared to variant 1. Variants 1, 2 and 3 encode the same isoform 1.</p>