

## Product datasheet for **SC315370**

### DOT1L (NM\_032482) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** DOT1L (NM\_032482) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** DOT1L  
**Synonyms:** DOT1; KMT4  
**Mammalian Cell Selection:** None  
**Vector:** pCMV6-XL4  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_032482 edited  
GGCACGAGGCGGGCCTGTGACTACAAAGAGGGAGTCGGGGGCCGGCCGACCGGAGCCG  
GGCGGCGGCGGGCGGGCGGGCCGAGGCCGAGGCCAGGCCCCCTCCCTCAGCCTCCCGCC  
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AGCGGGGCGCCCAAGAAGATGAACACTGCGAACCCCGAGCGGAAGCCCAAGAAGAACC  
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AGGATGCCTACAGATCCCCTCACAGCCCCTTCTACCAGCTACTTCCGAGCGTGCAGCGGC  
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GCTCCTCCGTGCTGCAGTCGCTGTTTCAGCTCTGTGCCGGCCGCCGAGGCCTGGTGCACG
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GAGGCTGGGACTGGTCCAGTTTGTACTGTCGATAGTTTTAGATAAAGTATTTATCATTTT
TTAAAAAGTATAAAAAAAAAAAAAAAAAA
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<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_032482
<b>Insert Size:</b>	5100 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>	The open reading frame of this TrueClone was fully sequenced and found to be a good match to the protein associated to this reference except for a few SNPs.
<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>	<a href="#">NM_032482.1</a> , <a href="#">NP_115871.1</a>
<b>RefSeq Size:</b>	4889 bp
<b>RefSeq ORF:</b>	4614 bp
<b>Locus ID:</b>	84444
<b>UniProt ID:</b>	<a href="#">Q8TEK3</a>
<b>Cytogenetics:</b>	19p13.3
<b>Domains:</b>	AT_hook
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Lysine degradation
<b>Gene Summary:</b>	The protein encoded by this gene is a histone methyltransferase that methylates lysine-79 of histone H3. It is inactive against free core histones, but shows significant histone methyltransferase activity against nucleosomes. [provided by RefSeq, Aug 2011]