

## Product datasheet for MC208400

### Dmc1 (NM\_010059) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Dmc1 (NM\_010059) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Dmc1  
**Synonyms:** Dmc1h; Lim15; Mei1; Mei11; sg; sgdp  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC208400 representing NM\_010059  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGC**C

ATGAAGGAGGATCAAGTTGTGCAGGAAGAATCGGGATTCCAAGATGATGAGGAATCTCTGTTTCAAGACA  
 TTGACCTGTTGCAGAAGCATGGGATTAACATGGCTGATATTAAGAACTGAAGTCTGTAGGAATCTGTAC  
 CATTAAAGGGATACAAATGACAACAAGAAGAGCCCTCTGCAATGTCAAAGCCTCTCAGAAGCCAAAGT  
 GAAAAGATTAAGAGGCAGCCAACAAGCTTATTGAACCAGGATTCTAACTGCATTTTCAGTACAGTGAAA  
 GGAGGAAGATGGTATTCATATCACTACTGGGAGCCAGGAATTTGATAAATTACTAGGAGGTGGCATTGA  
 AAGTATGGCAATTACAGAAGCTTTTGGAGAATTCGTAAGTGGAAAACTCAGCTGTCTCATACCTCTGT  
 GTGACAGCTCAACTCCAGGAACAGGCGCTACTCAGGTGGAAAGATTATCTTCATCGATACAGAAAATA  
 CTTTCCGTCAGATCGCCTTCGGGACATTGCTGACCGCTTCAACGTAGACCATGAAGCAGTACTGGACAA  
 CGTGCTCTATGCACGTGCCTATACTAGTGAGCATCAGATGGAGCTACTTGATTATGTCGCAGCCAAGTTT  
 CATGAGGAAGCTGGCATTTCAAACTATTGATCATTGACTCAATAATGGCACTTTTTCGAGTGGATTCA  
 GTGGCCGTGGGAATTGGCTGAACGCCAGCAAAAATTGGCCAGATGTTGTCACGACTCCAAAAAATCTC  
 AGAAGAATATAATGTTGCTGTTTTGTGACCAATCAAATGACTGCAGATCCAGGACAACTATGACCTTT  
 CAGGCTGATCCCAAAAAACCCATTGGTGACACATTCTGGCTCACGCTTCCACAACAAGAATAAGCTTGC  
 GCAAGGGAAGAGGAGAACTGAGGATCGCCAAGATTTATGACAGCCCCGAGATGCCTGAAAATGAAGCCAC  
 CTTGCAATAACCGCTGGAGGGATCGGGGATGCCAAGGAG**TAG**

**ACGGT**ACGGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_010059



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<b>Insert Size:</b>	1023 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>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_010059.3</a> , <a href="#">NP_034189.1</a>
<b>RefSeq Size:</b>	2227 bp
<b>RefSeq ORF:</b>	1023 bp
<b>Locus ID:</b>	13404
<b>UniProt ID:</b>	<a href="#">Q61880</a>
<b>Cytogenetics:</b>	15 37.79 cM
<b>Gene Summary:</b>	<p>This gene encodes a member of the superfamily of recombinases (also called DNA strand-exchange proteins). Recombinases are important for repairing double-strand DNA breaks during mitosis and meiosis. This protein, which is evolutionarily conserved, is reported to be essential for meiotic homologous recombination and may thus play an important role in generating diversity of genetic information. In mouse, deficiency of this gene causes infertility. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2013]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (1).</p>