

Product datasheet for MC226792

Dmc1 (NM_001278226) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Dmc1 (NM_001278226) 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: >MC226792 representing NM_001278226
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAAGGAGGATCAAGTTGTGCAGGAAGAATCGGGATTCCAAGATGATGAGGAATCTCTGTTTCAAGACA
 TTGACCTGTTGCAGAAGCATGGGATTAACATGGCTGATATTAAGAACTGAAGTCTGTAGGAATCTGTAC
 CATTAAAGGGATACAAATGACAACAAGAAGAGCCCTCTGCAATGTCAAAGGCCTCTCAGAAGCCAAAGT
 GAAAAGATTAAAGAGGCAGCCAACAAGCTTATTGAACCAGGATTCTAAGTGCATTTTCAGTACAGTGAAA
 GGAGGAAGATGGTATTCCATATCACTACTGGGAGCCAGGAATTTGATAAATTACTAGGAGGTGGCATTGA
 AAGTATGGCAATTACAGAAGCTTTTGGAGAATTTGCTACTGGAAAACTCAGCTGTCTCATACCTCTGT
 GGTGAGCATCAGATGGAGCTACTTGATTATGTCGAGCCAAAGTTTCATGAGGAAGCTGGCATTTCAAAC
 TATTGATCATTGACTCAATAATGGCACTTTTTCGAGTGGATTTTCAGTGGCCGTGGGGAATTGGCTGAACG
 CCAGCAAAAATGGCCAGATGTTGTACGACTCCAAAAATCTCAGAAGAATAAATGTTGCTGTTTTT
 GTGACCAATCAAATGACTGCAGATCCAGGAGCAACTATGACCTTTCAGGCTGATCCAAAAAACCCATTG
 GTGGACACATTCTGGCTCAGCTTCCACAACAAGAATAAGCTTGCACAAGGAAGAGGAGAACTGAGGAT
 CGCCAAGATTTATGACAGCCCGAGATGCCTGAAAATGAAGCCACCTTCGCAATAACCGCTGGAGGGATC
 GGGGATGCCAAGGAG**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001278226
Insert Size: 858 bp



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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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001278226.1</u> , <u>NP_001265155.1</u>
RefSeq Size:	2062 bp
RefSeq ORF:	858 bp
Locus ID:	13404
Cytogenetics:	15 37.79 cM
Gene Summary:	<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 (2) lacks two alternate exons in the coding region compared to variant 1. The resulting protein (isoform 2) lacks an internal portion and is shorter, compared to isoform 1.</p>