

Product datasheet for **MR229003**

Dmc1 (NM_001278226) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dmc1 (NM_001278226) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dmc1
Synonyms:	Dmc1h; Lim15; Mei1; Mei11; sg; sgdp
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR229003 representing NM_001278226 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAAGGAGGATCAAGTTGTGCAGGAAGAATCGGGATTCCAAGATGATGAGGAATCTCTGTTTCAAGACA
TTGACCTGTTGCAGAAGCATGGGATTAACATGGCTGATATTAAGAACTGAAGTCTGTAGGAATCTGTAC
CATTAAAGGGATACAAATGACAACAAGAAGAGCCCTCTGCAATGTCAAAGCCTCTCAGAAGCCAAAGT
GAAAAGATTAAAGAGGCAGCCAACAAGCTTATTGAACCAGGATTCTAACTGCATTTTCAGTACAGTGAAA
GGAGGAAGATGGTATTCCATATCACTACTGGGAGCCAGGAATTTGATAAATTACTAGGAGGTGGCATTGA
AAGTATGGCAATTACAGAAGCTTTTGGAGAATTTTCGTAAGTGGAAAACTCAGCTGTCTCATACCTCTGT
GGTGGCATCAGATGGAGCTACTTGATTATGTCGCAGCCAAGTTTCATGAGGAAGCTGGCATTTCAAAC
TATTGATCATTGACTCAATAATGGCACTTTTTCGAGTGGATTTTCAGTGGCCGTGGGAATTGGCTGAACG
CCAGCAAAAATGGCCAGATGTTGTACGACTCCAAAAATCTCAGAAGAATAAATGTTGCTGTTTTT
GTGACCAATCAAATGACTGCAGATCCAGGAGCAACTATGACCTTTCAGGCTGATCCAAAAAACCCATTG
GTGGACACATTCTGGCTCAGCTTCCACAACAAGAATAAGCTTTCGCAAGGGAAGAGGAGAACTGAGGAT
CGCCAAGATTTATGACAGCCCGAGATGCCTGAAAATGAAGCCACCTTCGCAATAACCGCTGGAGGGATC
GGGGATGCCAAGGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229003 representing NM_001278226
 Red=Cloning site Green=Tags(s)

MKEDQVVQEESGFQDDEESLFQDIDLLQKHGINMADIKKLKSVGICTIKGIQMTTRRALCNVKGLEAKV
 EKIKEAANKLIEPGFLTAFQYSERRKMFVHITTSQSEFDKLLGGGIESMAITEAFGEFRTGKTQLSHTLC
 GEHQMELLDYVAAKFHEEAGIFKLLIIDSIMALFRVDFSGRGELAERQQKLAQML SRLQKISEEYNVAVF
 VTNQMTADPGATMTFQADPKKPIGGHILAHASTTRISLRKGRGELRIAKIYDSEMPENEATFAITAGGI
 GDAKE

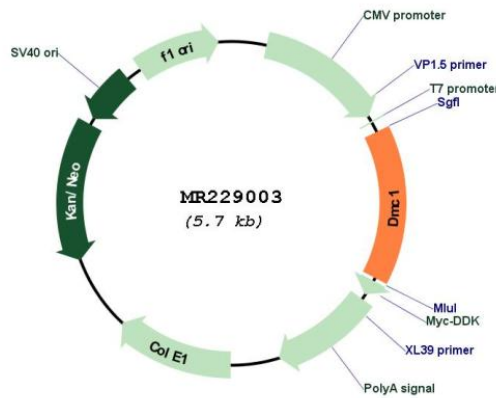
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001278226

ORF Size: 855 bp

OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	NM_001278226.1 , NP_001265155.1
RefSeq Size:	2062 bp
RefSeq ORF:	858 bp
Locus ID:	13404
Cytogenetics:	15 37.79 cM
MW:	32.1 kDa
Gene Summary:	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]