

Product datasheet for **RC237188**

DMC1 (NM_001278208) Human Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | DMC1 (NM_001278208) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | DMC1 |
| Synonyms: | dj199H16.1; DMC1H; LIM15 |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |
| ORF Nucleotide Sequence: | >RC237188 representing NM_001278208 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAAGGAGGATCAAGTTGTGGCGGAAGAACCAGGATTCGAAGATGAAGAGGAATCTTTGTTTCAAGATA
TTGACCTGTTACAGAAACATGGAATTAACGTGGCTGACATTAAGAACTGAAATCAGTAGGAATCTGTAC
CATCAAAGGTATACAGATGACAACAAGAAGAGCTCTATGCAATGTCAAAGGACTCTCAGAAGCCAAAGTA
GACAAGATTAAAGAGGCAGCGAACAACAACTAATTGAACCAGGATTCCTGACTGCATTTGAGTATAGTGAAA
AGAGGAAAATGGTTTTCCATATCACACCAGGAGCCAGGAATTTGATAAGTTACTAGGAGGTGGAATTGA
AAGTATGGCAATTACAGAAGCTTTTGGAGAATTCGTAAGTGGAAAAACCCAGCTTTCTCATACCTCTGT
GGTGAACATCAGATGGAGCTACTTGATTATGTAGCAGCAAAGTTCATGAAGAAGCTGGCATCTTCAAGC
TATTGATTATCGATTCAATAATGGCACTTTTTCGAGTGGATTTTCAGTGGCCGTGGGGAGTTGGCCGAACG
GCAGAAAAATGGCCAGATGTTGTACGACTCCAAAAATCTCAGAAGAATAAACGTGGCTGTTTTT
GTGACCAATCAAATGACTGCCGATCCAGGAGCAACTATGACCTTTCAGGCAGATCCAAAAAACCCATTG
GGGGACACATTCTGGCTCATGCTTCAACAACAAGAATAAGCTTGCAGAAAGGGAAGAGGAGCTCAGAAT
TGCCAAGATTTATGACAGTCCTGAGATGCCTGAAAATGAAGCCACCTTCGCAATAACTGCTGGAGGAATT
GGGGATGCCAAGGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237188 representing NM_001278208
 Red=Cloning site Green=Tags(s)

MKEDQVVAEPPGFQDEEESLFQDIDLLQKHGINVADIKKLKSVGICTIKGIQMTTRRALCNVKGLEAKV
 DKIKEAANKLIEPGFLTAFEYSEKRKMVFHITTSQEFDKLLGGGIESMAITEAFGEFRTGKTQLSHTLC
 GEHQMELLDYVAAKFHEEAGIFKLLIIDSIMALFRVDFSGRGELAERQQKLAQML SRLQKISEEYNVAVF
 VTNQMTADPGATMTFQADPKKPIGGHILAHASTTRISLRKGRGELRIAKIYDSEMPENEATFAITAGGI
 GDAKE

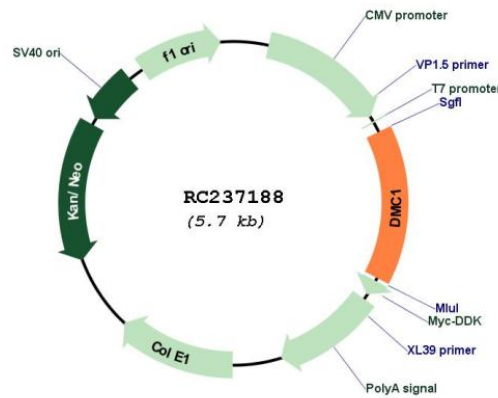
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001278208

ORF Size: 855 bp

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| 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_001278208.1 , NP_001265137.1 |
| RefSeq Size: | 2082 bp |
| RefSeq ORF: | 858 bp |
| Locus ID: | 11144 |
| UniProt ID: | Q14565 |
| Cytogenetics: | 22q13.1 |
| Protein Families: | Druggable Genome |
| MW: | 32 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. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2013] |