

Product datasheet for **RG237188**

DMC1 (NM_001278208) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DMC1 (NM_001278208) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DMC1
Synonyms:	dj199H16.1; DMC1H; LIM15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237188 representing NM_001278208. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAAGGAGGATCAAGTTGTGGCGGAAGAACCAGGATTCCAAGATGAAGAGGAATCTTTGTTTCAAGAT
ATTGACCTGTTACAGAAACATGGAATTAACGTGGCTGACATTAAGAACTGAAATCAGTAGGAATCTGT
ACCATCAAAGGTATACAGATGACAACAAGAAGAGCTCTATGCAATGTCAAAGGACTCTCAGAAGCCAAA
GTAGACAAGATTAAGAGGCAGCGAACAACAACTAATTGAACCAGGATTCTTGACTGCATTTGAGTATAGT
GAAAAGAGGAAAATGGTTTTCCATATCACACCAGGAGCCAGGAATTTGATAAGTTACTAGGAGGTGGA
ATTGAAAGTATGGCAATTACAGAAGCTTTTGGAGAATTTCTGACTGGAAAAACCCAGCTTTCTCATACC
CTCTGTGGTGAACATCAGATGGAGCTACTTGATTATGTAGCAGCAAAGTTCCATGAAGAAGCTGGCATC
TTCAAGCTATTGATTATCGATTCAATAATGGCACTTTTTTCGAGTGGATTTCAAGTGGCCGTGGGGAGTTG
GCCGAACGGCAGCAAAAATTGGCCAGATGTTGTCACGACTCCAAAAATCTCAGAAGAATATAACGTG
GCTGTTTTGTGACCAATCAAAATGACTGCCGATCCAGGAGCAACTATGACCTTTCAGGCAGATCCAAA
AAACCCATTGGGGGACACATTCTGGTCTGCTTCAACAACAAGAATAAGCTTGCAGAAAGGGAAGAGGA
GAGCTCAGAATTGCCAAGATTTATGACAGTCCTGAGATGCCTGAAATGAAGCCACCTTCGCAATAACT
GCTGGAGGAATTGGGGATGCCAAGGAG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



[View online »](#)

Protein Sequence: >Peptide sequence encoded by RG237188
 Blue=ORF Red=Cloning site Green=Tag(s)

MKEDQVVAEPPGFQDEEESLFQDIDLLQKHGINVADIKKLKSVGICTIKGIQMTTRRALCNVKGLEAK
 VDKIKEAANKLIEPGFLTAFEYSEKRKMVFHITGTSQFEDKLLGGGIESMAITEAFGEFRTGKTQLSHT
 LCGEHQMLLDYVAAKFHEEAGIFKLLIIDSIMALFRVDFSGRGELAERQQKLAQMLSRQLKISEEYNV
 AVFVTNQMTADPGATMTFQADPKKPIGGHILAHASTTRISLRKGRGELRIAKIYDSPEMPENEATFAIT
 AGGIGDAKE
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIIRSNAVHLPMDNDLDGSGFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001278208

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).

RefSeq: [NM_001278208.1](#), [NP_001265137.1](#)

RefSeq Size: 2082 bp

RefSeq ORF: 858 bp

Locus ID: 11144

UniProt ID: [Q14565](#)

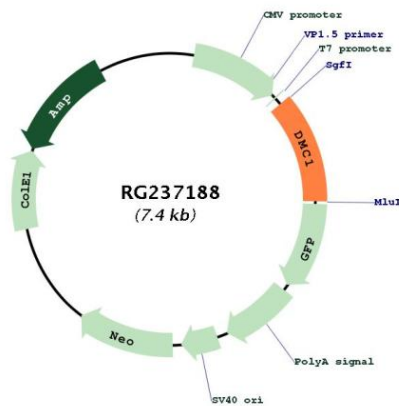
Cytogenetics: 22q13.1

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]

Product images:



Circular map for RG237188