

## Product datasheet for MR221487

### Prdm12 (NM\_001123362) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Prdm12 (NM_001123362) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Prdm12
Synonyms:	Gm998
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR221487 representing NM_001123362 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATGGGCTCTGTGCTCCAGCTGAGGCCCTGGTGTCAAACAGGGCTGAAGGCTCCGGGTTGGCGC  
TGGCAGAGGTCATCACCTCCGACATCCTGCACAGTTTCTATATGGCCGATGGCGCAACGTGCTAGGCGA  
ACAGCTGTGGAAGACAAGAGCCACCACGCCAGCCAAAAACGGCCTTCACGGCCGAGGTCTGGCGCAG  
TCCTTCTCAGGAGAGGTGCAGAAGCTATCTAGCCTGGTGTGCCGGTGAAGTGATTATCGCTCAGAGTT  
CCATCCCAGGCGAGGGCCTTGGCATCTTCTCAAGACGTGGATCAAGGCAGGCACGGAGATGGGCCCTT  
CACTGGCCGCGTCATTGCCCCAGAGCATGTGGATATCTGCAAAAACAACAACCTCATGTGGGAGGTATTC  
AACGAGGATGGTACAGTACGCTACTTCATCGATGCCAGCCAGGAAGACCACCGAAGCTGGATGACCTACA  
TCAAGTGTGCCCGGAATGAGCAGGAGCAGAACCTGGAGGTGGTCCAGATAGGCACGAGCATCTTCTACAA  
GGCCATAGAGATGATCCCTCCAGACCAGGAGCTGCTGGTGTGGTATGAAATTCACACAACCTTCCTG  
GGCATCCCAGGTGTGCCAGGCCTGGAGGAGGAACAGAAGAAAAACAAGCATGAGGACTTCCACCCGGCGG  
ACTCCGCGACCGGCACCGCGGCCGCATGCGCTGCGTCATCTGCCACCGCGGCTTCAACTCGCGCAGCAA  
CCTGCGCTCGACATGCGTATCCACACGCTGGACAAGCCCTTCGTGTGCCGCTTTCGCAACCGCCGCTTC  
AGCCAGTGTCCACGCTGCGCAACCACGTGCGCCTGCACACGGGCGAGCGTCCCTACAAGTGCCAGGTGT  
GCCAGAGCGCCTACTCGCAGCTGGCCGGCCTGCGCGCGCACAGAGAAGAGCGCGGCCACCGCCGCCAG  
CACC GCGTGTCAAGCGCACTCGCCGCACTACCGCGCCCAACGCTCACGCGCCGCGCTTGCCGCGCC  
GCCGCTGCCGCCCGCGGCACACCACCTGCCGCCATGGTGCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR221487 representing NM\_001123362  
 Red=Cloning site Green=Tags(s)

MMGSVLPAEALVLKTGLKAPGLALAEVITSDILHSFLYGRWRNVLGEQLLEDKSHHASPKTAFTAELVAQ  
 SFSGEVQKLSSLVLPVEVIAQSSIPGEGLGIFSKTWIKAGTEMGPFTGRVIAPEHVDICKNNLMWEVF  
 NEDGTVRYFIDASQEDHRWSWMTYIKCARNEQEQNLEVVQIGTSIFYKAIEMIPDQELLVWYGNSHNTFL  
 GIPGVPLGEEEEQKKNKHEDFHPADSATGTAGRMRCVICHGRFNSRSNLRSHMRIHTLDKPFVCRFCNRRF  
 SQSSTLRNHVRLHTGERPYKCQVCQSAYSQLAGLRAHQKSARHRPPSTALQAHSPALPAPHAHAPALAAA  
 AAAAAAAHHL PAMVL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mm9047\\_a06.zip](https://cdn.origene.com/chromatograms/mm9047_a06.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_001123362

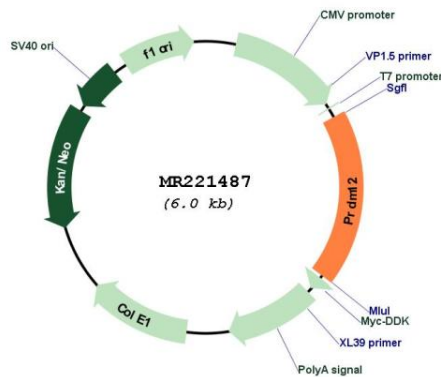
ORF Size: 1095 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<u><a href="#">NM_001123362.1</a></u> , <u><a href="#">NP_001116834.1</a></u>
<b>RefSeq Size:</b>	2471 bp
<b>RefSeq ORF:</b>	1098 bp
<b>Locus ID:</b>	381359
<b>UniProt ID:</b>	<u><a href="#">A2A177</a></u>
<b>Cytogenetics:</b>	2 B
<b>MW:</b>	40.8 kDa
<b>Gene Summary:</b>	Involved in the positive regulation of histone H3-K9 dimethylation.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR221487