

## Product datasheet for **MR215165**

### Prdm14 (NM\_001081209) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Prdm14 (NM_001081209) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Prdm14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR215165 representing NM\_001081209  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCTTACCGCCTCTGGTGAGACCCAGTCCCAGGACAAGGCCAACTACCTGCCCCAGAGCAACCTC  
 ACCACCTGACTACCTACTACGCGCATGCCCCAGGCTACAGTCACTTTAGGAACCTCGCCACCACCGAGGA  
 GGAGTTTCAACCTTGAAACTGGCAGCTGCAGTCTTGGTCCCAGGCGATGGCCCTCTTGATGCTTTT  
 CGGATGACTGCTCCCTTGTGAACCCGGGTCTGGCTGTTGAGAGCGAGCCGCTCTACAATCTGCCCTGGT  
 ACAAATTGTACCATGGAACCGAATTCCTCAATCACTCCCGAAGTACCACGATTTCTAGACAGCACTGA  
 GCATAGGAGCAGCGTTCCAGCAACCAAAATTTGGTCTCGGCGGCGGGTGGCCAAATCAGTGGTCAG  
 AGGTGGGAAGCTGAAAATTTACTTCTGCCATCCCCGTAATTGCTCCCTACTACCTGATGGAATTAAGT  
 CGTCCCAGTCAATATCTGTCCCCAAACCTTGAATCAAGAGGGGAAGCTGCCGTTTTGCGGCTTCAACT  
 CACAGAGGAGAACTGAGCTTCGTTCTGTATGGAGCCATCGCTAGTCCGGAGCACCAACCGACTTACAG  
 CATGCAATTTACGGCATCCTGGTCCCACAGAGAGTTCTGGGTCTAATCATCTTCAAAAACCTGGACA  
 AAGACTCCCTCCAGTTCGGAAGGTCTCTGCCTCATGCAGACCTCATTGGTGTGTGCCACACTTTGG  
 CGTGTCTGCAGCGACTTATTGCCAAAGGAGTGAGATTTGGACCCTTTGAGGTAGAGTGGTCAATGCC  
 AGCGAAGTGAAGGCACACAGGGACAACCTCTCGGATGTGGGAAATTTTGAAGATGGTCACTGAGCCATT  
 TTATCGACGGCAAAGTTCTGGAACTGGATGTCTATGTCAACTGTGCTCGGTTCCCAAGGAGCAGAA  
 CCTGCTGGCCGTGCAGCACCAAGGGCAGATATTTATGAGAGTTGTAGAGACATCCAGCGGAACCAAGAA  
 CTGCTTGTGGTACGGAAATGGCTATGAGAAGTTCTGGGCGTCCCATGAACCTCCGTGTCACTGAGC  
 AAGGAGCCAGCAGCTGTCTGAGTCTCTGAAGAGTCTGCAGAAGTTACAGATGTGAACGCTGTGGAAA  
 GGTGTTTTACCTACAATACTACAGAGATAAGCACCTGAAGTACACGCCCTGTGTGGACAAGGGGACAGG  
 AAGTTTTCCGTGTTCTCTGCAAAAGATCCTTTGAAAAGCGCGACCCGCTCCGGATCCATATTCTTCAGC  
 TCCATGAGAGGCACCGGCCCTACCTGTGTTCAACCTGTGGGAAAAGTTTTCTCAGTCTTCCAGCCTGAA  
 CAAGCACATGAGAGTCCACTCTGGAGACAGGCCATACCAGTGCCTGTACTGTACAAAAGTTCCTGCTC  
 TCCAGCATACTCCGAACACACATCAGACAGCACTCAGGAGAGAAGCCCTCAAGTGAAGCATTGTGGTA  
 AAGCCTTTGCATCTCATGCTGCCACGACAGCCAGTCCGGCGCTCACACAAGGACAATGGCCGTAGCTC  
 CTGGATATTTGGGAAAGGCTTCTGGATCAAGAGGCTTTCTATGCCACATGAGGCTCATAAAAAC  
 TGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR215165 representing NM\_001081209  
 Red=Cloning site Green=Tags(s)

MALPPSGETQSQDKANYLPQSNPHLLTTYAHAPGYSHFRNLATTEEEFQPWKLAADVLESQAMAPLDAF  
 RMTAPLLNPGLAVQSEPLYNLPWYKLSPNRIPQFTPEVPRFLDSTEHRSSGSSNQNLVLGGGGQISGQ  
 RWEAENLLPSPVIASLLPDGIKSSQSI SVPQTLNQEGLPFCGFNFTEELSFVLYGAIASPEHPTDLQ  
 HAISGILVPTSSGNSHLHKTLDKSLQLPEGLCLMQTSFGDVPHFVFCSDFIKGVRFGPFRGRVNA  
 SEVKAHRDNSRMWEIFEDGHLSHFIDGKSGSNWMSYVNCARFPKEQNLLAVQHQQQIFYESCRDIQRNQE  
 LLVWYNGYEFKFLGVPMLNRVTEQGGQQLSESSEESAEGYRCERCCKVFTYKYRDKHLKYTPCVDKDR  
 KFPCSLCQRSFEKRDRLRIHILHVHERHRPYLCSTCGKSFSSSLNKHMRVHSGDRPYQCQVYCTKKFTA  
 SSILRTHIRQHSGEKPFKCKHCGKAFASHAAHDSHVRRSHKDNGRSCDICGKGLDQEFAYAHMRLHKT  
 C

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/ja1989\\_a03.zip](https://cdn.origene.com/chromatograms/ja1989_a03.zip)

**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



ACCN: NM\_001081209

ORF Size: 1683 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

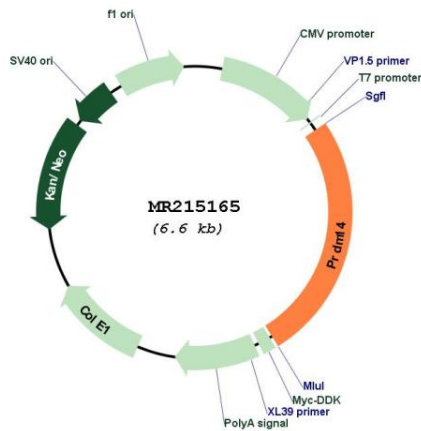
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- Reconstitution Method:
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\\_001081209.2](#), [NP\\_001074678.2](#)  
 RefSeq Size: 2593 bp  
 RefSeq ORF: 1686 bp  
 Locus ID: 383491  
 UniProt ID: [E9Q3T6](#)  
 Cytogenetics: 1 A3  
 MW: 63.8 kDa

**Gene Summary:** Transcription factor that has both positive and negative roles on transcription (By similarity). Plays a role in cellular pluripotency. Essential for germ cell development at 2 levels: the reacquisition of potential pluripotency, including SOX2 up-regulation, and successful epigenetic reprogramming, characterized by EHMT1 repression. Its association with CBFA2T2 is required for the functions in pluripotency and germ cell formation.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR215165