

Product datasheet for **MG215165**

Prdm14 (NM_001081209) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Prdm14 (NM_001081209) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Prdm14 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>MG215165 representing NM_001081209
 Red=Cloning site Blue=ORF Green=Tags(s)
 TTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCCTTACCGCCTCTGGTGAGACCCAGTCCCAGGACAAGGCCAACTACCTGCCCCAGAGCAACCTC
 ACCACCTGACTACTACTACGCGCATGCCCCAGGCTACAGTCACTTTAGGAACCTCGCCACCACCGAGGA
 GGAGTTTCAACCTTGAAACTGGCAGCTGCAGTCTTGTAGTCCCAGGCGATGGCCCTCTTGATGCTTTT
 CGGATGACTGCTCCCTTGTGAACCCGGGTCTGGCTGTTGAGAGCGAGCCGCTCTACAATCTGCCCTGGT
 ACAAATTGTACCATGGAACCGAATTCCTCAATCACTCCCGAAGTACCACGATTTCTAGACAGCACTGA
 GCATAGGAGCAGCGTTCCAGCAACCAAAATTTGGTCTCGGCGGCGGGTGGCCAAATCAGTGGTCAG
 AGGTGGGAAGCTGAAAATTTACTTCTGCCATCCCCGTAATTGCTCCCTACTACCTGATGGAATTAAGT
 CGTCCCAGTCAATATCTGTCCCCAAACCTTGAATCAAGAGGGGAAGCTGCCGTTTTGCGGCTTCAACT
 CACAGAGGAGAACTGAGCTTCGTCTGTATGGAGCCATCGCTAGTCCGGAGCACCAACCGACTTACAG
 CATGCAATTTAGGCATCCTGGTCCCACAGAGAGTTCTGGGTCTAATCATCTTCATAAAACCCTGGACA
 AAGACTCCCTCCAGCTTCGGAAGGTCTCTGCCTCATGCAGACCTCATTTGGTGTGTGCCACACTTTGG
 CGTGTCTGCAGCGACTTCATTGCCAAAGGAGTGAGATTTGGACCCTTTTCGAGGTAGAGTGGTCAATGCC
 AGCGAAGTGAAGGCACACAGGGACAACCTCTCGGATGTGGGAAATTTTGAAGATGGTCACTGAGCCATT
 TTATCGACGGCAAAGTTCTGGGAACTGGATGTCTATGTCAACTGTGCTCGGTTCCCAAGGAGCAGAA
 CCTGCTGGCCGTGCAGCACCAAGGGCAGATATTTATGAGAGTTGTAGAGACATCCAGCGGAACCGAGAA
 CTGCTTGTGGTACGGAAATGGCTATGAGAAGTCTGGGCGTCCCATGAACCTCCGTGTCACTGAGC
 AAGGAGCCAGCAGCTGTCTGAGTCTCTGAAGAGTCTGCAGAAGTTACAGATGTGAACGCTGTGGAAA
 GGTGTTTTACCTACAATACTACAGAGATAAGCACCTGAAGTACACGCCCTGTGTGGACAAGGGGACAGG
 AAGTTTTCCGTGTTCTCTGCAAAAGATCCTTTGAAAAGCGCGACCGCCTCCGGATCCATATTCTTCAGC
 TCCATGAGAGGCACCGGCCCTACCTGTGTTCAACCTGTGGGAAAAGTTTTCTCAGTCTTCCAGCCTGAA
 CAAGCACATGAGAGTCCACTCTGGAGACAGGCCATACCAGTGCCTGTACTGTACAAGAAGTTCACTGCC
 TCCAGCATACTCCGAACACACATCAGACAGCACTCAGGAGAGAAGCCCTCAAGTGAAGCATTGTGGTA
 AAGCCTTTGCATCTCATGCTGCCACGACGCCACGTCCGGCGCTCACACAAGGACAATGGCCGTAGCTC
 CTGCGATATTTGGGAAAGCTTCTGGATCAAGAGGCTTTCTATGCCACATGAGGCTTCATAAAACC
 TGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG215165 representing NM_001081209
 Red=Cloning site Green=Tags(s)
 MALPPSGETQSQDKANYLPQSNPHLLTTYAHAPGYSHFRNLATTEEFQPWKLAADVLESQAMAPLDAF
 RMTAPLLNPGLAVQSEPLYNLPWYKLSAWNRIQFTPEVPRFLDSTEHRSSGSSNQNLVLGGGGQISGQ
 RWEAENLLLPSPIASLLPDGIKSSQISVPQTLNQEGLPFCGFNFTEEELSFVLYGAIASPEHPTDLQ
 HAISGILVPTESGSHLHKTLDKDSLQLEGLCLMQTSFGDVPFHGVCDFIAKGVRFPGFRGRVYNA
 SEVKAHRDNSRMWEIFEDGHLSHFIDGKSGNWMYSVNCARFPKEQNLLAVQHQQQIFYESCRDIQRNQE
 LLVWYNGYEFKFLGVPMNLRVTEQGGQQLSESSEESAEGYRCERCCKVFTYKYRDKHLKYTPCVDKGDR
 KFPCSLCQRSFEKRDRLRIHILHVHERHPYLCSTCGKSFSQSSSLNKHMRVHSGDRPYQCQVYCTKKFTA
 SSILRTHIRQHSGEKPFKCKHCGKAFASHAAHDSHVRRSHKDNDRSSCDICGKGLDQEFAYAHMRLHKT
 C

TRTRPLE – GFP Tag – V

Chromatograms:

https://cdn.origene.com/chromatograms/ja1810_d10.zip

Restriction Sites:

Sgfl-Mlul

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 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.

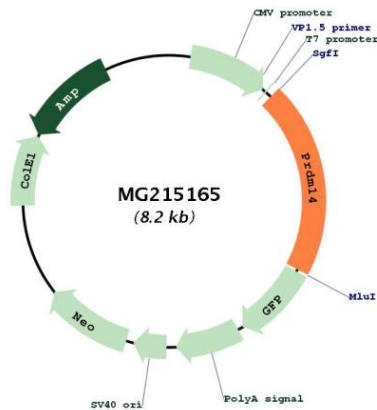
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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

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 MG215165