

Product datasheet for **MG226824**

Prdm1 (NM_007548) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prdm1 (NM_007548) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Prdm1
Synonyms:	b2b1765Clo; Blimp-1; Blimp1; PRDI-BF1; ZNFPR1A1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG226824 representing NM_007548
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTTGGATCTTCTCTTGAAAAACGTGTGGGTACGACCTGGCTGCCCCCAAGTCTAGCTCCGGCTCCG
 TGAAGTTTCAAGGACTGGCAGAGACTGGGATCATGAAAAATGGACATGGAGGACGCTGATATGACTTTGTG
 GACAGAGGCCGAGTTTGAAGAGAAGTGTACATACATAGTGAACGACCACCCTGGGATTCGGCGCTGAC
 GGGGGTACTTCTGTTCAAGCCGAGGCATCCTTACCAAGGAACCTGCTTTTCAAGTATGCTGCCAACAAACA
 GCAAAGAGGTTATTGGCGTGGTAAGTAAGGAGTACATACCGAAGGGAACACGCTTTGGACCCCTCATCGG
 TGAAGTCTACACTAATGACACAGTTCCTCAAGAATGCCAACAGGAAGTATTTTTGGCGGATCTATTCCAGA
 GAGGAGTCCACCACTTATTGATGGCTTAAATGAGGAGAAAAGCAACTGGATGCGCTACGTAATCCAG
 CTCACTCTGCCCGGAGCAAAACCTGGCTGCCTGTCAGAACGGGATGAACATCTACTTCTACACTATTAA
 GCCTATCCCTGCCAACCGAAGCTTCTTGTGTGGTATTGTCGGGACTTTGCGGAGAGGCTCCACTACCT
 TATCCTGGAGAGCTCACAGTGATAAATCTCACACAACCGAAAGCAACCCAAAGCAATACAGTAGTGAGA
 AAAATGAACTCTACCCAAAGAGTGTCCCAAGAGAGAGTACAGCGTGAAAAGAAATTTAAAACTGGACTC
 CAATCCCTCCAAAAGGAAGGACATCTACCGTTCACAACTTTACCCCTTCACTTTAGAAAAGGACATGGAT
 GGCTTTTCGGAAAAATGGGAGCCCGACATGCCCTTCTACCTCGGGTGGTTTATCCTATCCGGGCACCTC
 TGCCAGAAGACTTTTTGAAAGCGTCCCTGGCCTATGGGATGGAGAGACCCACCTACATAACTCACAGTCC
 CCTTCCGTCTCCACAACCTCAAGTCCCCTGCGAGCAGCAGCCCGGAGCAGAGCCTTAAGAGCTCCAGC
 CCCACAGCAGCCCGGAAACACGGGTGACCCCTGGCGCCAGGCTCCAGAACACCGGGACTCCTACT
 CCTACTGAATGTTTCTATGGTTCGAGGGCTGGGCTCCTACCTGGCTATGCACCTGCCCCCACT
 CCCACCGCTTTCATTCCTTCTTACAATGCTCACTACCCCAAGTTCCTGTTGCCACCGTACGGCATTAGT
 TCCAATGGCTTGAGCACCATGAACAACATCAATGGTATCAACAACCTTCAGCCTCTTCCCTAGGTTGTATC
 CCGTCTACAGTAACCTCCTTAGTGGCAGCAGCCTGCCTCATCCCATGCTCAATCCAGCTTCCCTACCGAG
 TTCCCTGCCTACCGATGGAGCCCGGAGGCTGCTTCCACCGGAGCACCCCAAGAGGTGCTTATCCAGCA
 CCCACAGTGCCTTCTCCCTTACCGGGCTGCAGCCAGCATGAAGGACGAGAGTAGTCCCCCAGCGGAT
 CTCCAACGGCGGAACTGCAGCCAGTCAAGACACGTGGTACAACCCAAAGCTACCTCATCAGTATGGC
 GGCCCCAGCACTGACGGAGCCATGAATCTCATTAAAAACAACGAAACATGACTGGTTACAAGACTCTT
 CCTTACCCTCTGAAGAAACAGAATGGCAAGATCAAGTATGAGTGAATGTCTGTGCAAGACGTTCCGGTC
 AGCTCTCCAACCTGAAGGTCCACCTGAGAGTGCACAGTGGAGAACGGCCTTTCAAGTGCCAGACCTGCAA
 CAAGGGTTTTACTCAGCTCGCCACCTGCAGAAACACTACTTGGTACACACAGGAGAGAAGCCACATGAG
 TGCCAGGTCTGCCACAAGAGATTTAGCAGCACAAGCAATCTCAAGACCCACCTTCGATTGCATTCTGGAG
 AAAAACCTTACCAATGTAAGGTGTGCCCTGCCAAGTTTACGCAATTTGTGCACCTGAAGTGCACAAGCG
 ACTGCATACCCGGGAGCGGCCTCACAAGTGTGCCAGTGTCAAGAGCTACATCCATCTCTGCAGCCTC
 AAGGTCCACCTGAAGGGCAACTGCCCTGCGGGCCAGCTGCTGGGCTGCCTTTGGAGGATCTGACCCGAA
 TCAATGAAGAAATTGAGAGTTTCGACATCAGCGACAATGCAGACCGTCTTGAGGACATGGAGGACAGTGT
 CGATGTGACCTCCATGGTGGAGAAGGAGATTCTAGCTGTGGTCAAGAAAGAGAAAGAAAGAACCGTCTG
 AAAGTGTCTTTGCAAAGAAACATGGGGAACGGCCTCCTCTCCTCAGGGTGCAGCCTCTATGAGTCAATCGG
 ACCTGTCCCTCATGAAGTTCCTCACAGCAACCCACTACCTCTGGTGCCTGTAAAGGTCAAACAAGAAAC
 AGTTGAACCGATGGATCCT

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG226824 representing NM_007548
Red=Cloning site Green=Tags(s)

MLDLLLEKRVGTTLAAPKSSSGSVKFGQLAETGIMKMDMEDADMTLWTEAEFEKCTYIVNDHPWDSGAD
GGTSVQAEASLPRNLLFKYAANNSKEVIGVVSKEYIPKGTRFGPLIGEVYTNTPVKNANRKYFWRIYSR
EEFHFFIDGFNEEKSNWMRYVNPASAREQNLAACQNGMNIYFYTIKPIPANQELLVWYCRDFAERLHYP
YPGELTVINLTQTESNPKQYSSEKNELYPKSVPKREYSVKEILKLDNPSKRKDIYRSNISPFITLEKDMD
GFRKNGSPDMPFYPRVVYPIRAPLPEDFLKASLAYGMRPTYITHSPLPSSTTPSPASSPEQSLKSSS
PHSSPGNTVSPLAPGLPEHRDSYSLNVSYGSEGLGSYPGYAPAPHLPPAFIPSYNAHYPKFLLPPYGIS
SNGLSTMNNGINNFSLFPRLYPVYSNLLSGSSLPHMMLNPASLPSSLPTDGARRLLPPEHPKEVLIPA
PHSAFSLTGAAASMKDESSPPSGSPTAGTAATSEHVVPKATSSVMAAPSTDGAMNLIKNNRMTGYKTL
PYLKKQNGKIKYECNVCAKTFGQLSNLKVHLRVHSGERPFCQTCNKGFQLAHLQKHVYL VHTGEKPHE
CQVCHKRFSSTSNLKTHLRLHSGEKPYQCKVCPAKFTQFVHLKHLKRLHTRERPHKCAQCHKSYIHLCSL
KVHLKGNCAPGPAAGLPLEDLTRINEEIERFDISDNADRLEDMEDSV DVTSMVEKEILAVVRKEEETSL
KVSLQRNMGNGLLSSGCSLYESSDLSLMLKPHSNPLPLVPVKVKQETVEPMDP

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja1409_g07.zip

Restriction Sites: SgfI-MluI

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_007548.4](#)

RefSeq Size: 5143 bp

RefSeq ORF: 2472 bp

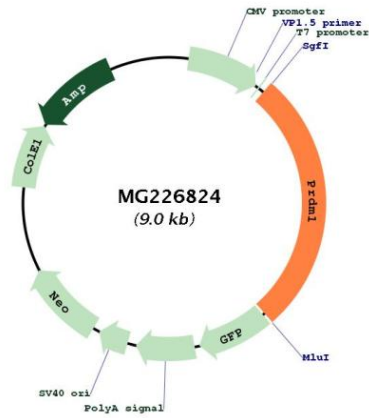
Locus ID: 12142

UniProt ID: [Q60636](#)

Cytogenetics: 10 23.24 cM

Gene Summary: Transcription factor that mediates a transcriptional program in various innate and adaptive immune tissue-resident lymphocyte T cell types such as tissue-resident memory T (Trm), natural killer (trNK) and natural killer T (NKT) cells and negatively regulates gene expression of proteins that promote the egress of tissue-resident T-cell populations from non-lymphoid organs (PubMed:27102484). Plays a role in the development, retention and long-term establishment of adaptive and innate tissue-resident lymphocyte T cell types in non-lymphoid organs, such as the skin and gut, but also in other nonbarrier tissues like liver and kidney, and therefore may provide immediate immunological protection against reactivating infections or viral reinfection (PubMed:27102484). Binds specifically to the PRDI element in the promoter of the beta-interferon gene (By similarity). Drives the maturation of B-lymphocytes into Ig secreting cells (By similarity). Associates with the transcriptional repressor ZNF683 to chromatin at gene promoter regions (PubMed:27102484).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG226824