

## Product datasheet for MR226824L3

### Prdm1 (NM\_007548) Mouse Tagged Lenti ORF Clone

#### Product data:

|                           |                                                                |
|---------------------------|----------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                            |
| Product Name:             | Prdm1 (NM_007548) Mouse Tagged Lenti ORF Clone                 |
| Tag:                      | Myc-DDK                                                        |
| Symbol:                   | Prdm1                                                          |
| Synonyms:                 | b2b1765Clo; Blimp-1; Blimp1; PRDI-BF1; ZNFPR1A1                |
| Mammalian Cell Selection: | Puromycin                                                      |
| Vector:                   | pLenti-C-Myc-DDK-P2A-Puro (PS100092)                           |
| E. coli Selection:        | Chloramphenicol (34 ug/mL)                                     |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(MR226824). |
| Restriction Sites:        | SgfI-MluI                                                      |
| Cloning Scheme:           |                                                                |

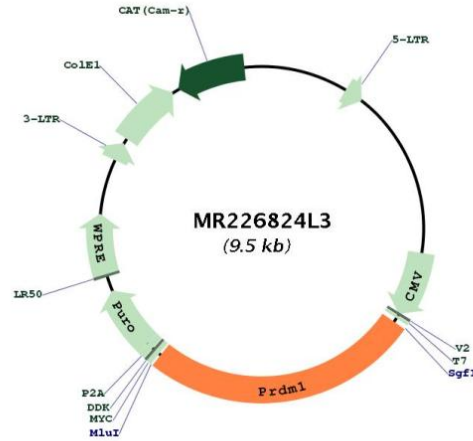
Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF.



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**Plasmid Map:**


**ACCN:** NM\_007548

**ORF Size:** 2469 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).

**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\\_007548.3](#)

**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 (T<sub>rm</sub>), 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]