

## Product datasheet for **SC304995**

### PRDM16 (NM\_022114) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PRDM16 (NM\_022114) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** PRDM16  
**Synonyms:** CMD1LL; KMT8F; LVNC8; MEL1; PFM13  
**Mammalian Cell Selection:** None  
**Vector:** pCMV6-XL6  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_022114 edited  
GGAGGAGGAGAGATTCCGCGAGCCGACACCATGCGATCCAAGGCGAGGGCGAGGAAGC  
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CACAAACGCTCAGGCCTTCTCACGCTTCCACAACATCCCCTGGGTGAGACCCACCAGG
TACC
    
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- Restriction Sites:** Please inquire
- ACCN:** NM\_022114
- Insert Size:** 6100 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** The ORF of this clone has been fully sequenced and found to contain one SNP and 3bp insertion compared with NM\_022114.2.
- 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\\_022114.2](#), [NP\\_071397.2](#)

RefSeq Size: 8726 bp

RefSeq ORF: 3828 bp

Locus ID: 63976

UniProt ID: [Q9HAZ2](#)

Cytogenetics: 1p36.32

**Gene Summary:** The reciprocal translocation t(1;3)(p36;q21) occurs in a subset of myelodysplastic syndrome (MDS) and acute myeloid leukemia (AML). This gene is located near the 1p36.3 breakpoint and has been shown to be specifically expressed in the t(1;3)(p36,q21)-positive MDS/AML. The protein encoded by this gene is a zinc finger transcription factor and contains an N-terminal PR domain. The translocation results in the overexpression of a truncated version of this protein that lacks the PR domain, which may play an important role in the pathogenesis of MDS and AML. Alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.