

Product datasheet for **SC307983**

PRDM16 (NM_199454) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: PRDM16 (NM_199454) Human Untagged Clone
Tag: Tag Free
Symbol: PRDM16
Synonyms: CMD1LL; KMT8F; LVNC8; MEL1; PFM13
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_199454 edited
 ATGCCGATCCAAGGCGAGGGCGAGGAAGCTAGCCAAAAGTGACGGTGACGTTGTAATAAT
 ATGTATGAGCCCAACCGGGACCTGCTGGCCAGCCACAGCGGAGGACGAGGCCGAGGAC
 AGTGCCATGTGCGCCATCCCCGTGGGGCCACCGTCCCCCTTCCCCACCAGCGAGGACTTC
 ACCCCCAAGGAGGGCTCGCCGTACGAGGCCCTGTCTACATTCCCTGAAGACATTCCGATC
 CCAGCAGACTTCGAGCTCCGAGAGTCTCCATCCCAGGGGCTGGCCTGGGGTCTGGGCC
 AAGAGGAAGATGGAAGCCGGGGAGAGGCTGGGCCCTGCGTGGTGGTGCCCGGGCGGCG
 GCAAAGGAGACAGACTTCGGATGGGAGCAAATACTGACGGACGTGGAAGTGTGCCCCAG
 GAAGGCTGCATCACAAGATCTCCGAAGACCTGGGCAGTGAGAAGTTCTGCGTGGATGCA
 AATCAGGGGGGGCTGGCAGCTGGCTCAAGTACATCCGTGTGGCGTGCTCCTGCGATGAC
 CAGAACCTCACCATGTGTGAGATCAGTACGAGATTTACTATAAAGTCATTAAGGACATT
 GAGCCAGGTGAGGAGCTGCTGGTGCACGTGAAGGAAGGCGTCTACCCCTGGGCACAGTG
 CCGCCCGGCTGGACGAGGAGCCACGTTCCGCTGTGACGAGTGTGACGAACCTTCCAG
 TCCAAGCTGGACCTGCGGCGCCATAAGAAGTACACGTGTGGCTCAGTGGGGGCTGCGCTC
 TACGAGGGCTGGCTGAGGAGCTCAAGCCCAGGGCCTTGGCGGTGGCAGCGGCCAAGCC
 CACGAGTGCAAGGACTGCGAGCGGATGTTCCCAACAAGTACAGCCTGGAGCAGCACATG
 GTCATCCACACGGAGGAGCGGAGTACAAATGCGACCAGTGTCCAAGGCCTTCAACTGG
 AAGTCCAACCTCATCCGCCACCAGATGTCCACGACAGCGGCAACGCTTCAATGTGAA
 AACTGCGTGAAGGTGTTACGGACCCAGCAACCTTACGGGCACATCCGCTCGCAGCAC
 GTGGGCGCTCGGGCCACGCGCTGCCCGACTGCGGGAAGACCTTCGCCAGTCTCCGCGC
 CTCAAGCAGCACAAAGCATATCCACAGCAGGTTGAAGCCTTTCATATGTGAGGTCTGCCAC
 AAGTCTACACGAGTCTCCAACCTGTGCCGGCACAAGCGGATGCACGCCGACTGCCGC
 ACGCAGATCAAGTGCAAGGACTGTGGCCAGATGTTACGACTACCTCCTCCCTCAACAAG
 CACCGGCGCTTCTGCGAGGGCAAGAACCATTACACGCGGGCGGCATCTTTGCCCGGGC
 CTGCCCTTGACCCCAAGCCATGATGGACAAGGCAAAACCTCCCCAGCCTCAATCAC
 GCCAGCCTGGGCTTCAACGAGTACTTCCCTCCAGGCCGACCCGGGAGCCTGCCCTTC
 TCCAGGGCGCTCCACGTTCCCGCACTACCCCGGCTTCCCGGCATCTTCCCTCCA



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TCCTTGTACCCCGGCCGCTCTGCTACCTCCACATCGCTGCTCAAGAGCCCCCTGAAC
CACACCCAGGACGCCAAGCTCCCCAGTCCCCTGGGGAACCCAGCCCTGCCCTGGTCTCC
GCCGTACGCAACAGCAGCCAGGGCACGACGGCAGCTGCGGGGCCGAGGAGAAGTTTCGAG
AGCCGCTGGAGGACTCCTGTGTGGAGAAGCTGAAGACCAGGAGCAGCGACATGTCGGAC
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AGCGTGGCCGAGGTGCCTGTCTTCTATTCCAGCACTATTCTTCCCGCACCCGACGAG
CAGCTGCTGACTGCAACGGGCGCCGCGGGGACTCCATCAAGGCCATCGCATCCATTGCC
GAGAAGTACTTTGGCCCCGGCTTCATGGGGATGCAGGAGAAGAAGCTGGGCTCGTCCCC
TACCACTCGGCGTTCCCTTCCAGTTCTGCCCCAATTCCCCACTCCCTTTACCCCTTC
ACGGACCGAGCCCTCGCCACAACCTTGCTGGTCAAGGCCGAGCCAAAGTACCCCGGGAC
GCCCTCAAGGTGGGCGGCCCCAGTGCCGAGTGCCCTTTGATCTCACCACCAAGCCAAA
GACGTGAAGCCATCCTGCCATGCCAAGGGCCCTCGGCCCGCATCCGGCGAGGAG
CAGCCGCTGGACTGAGCATCGGCAGCCGGGCCGTGCCAGCCAAAACGGCGGCGGGCGG
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CAGGTGTGCCCGCGCGGATGCCCCAGCAGCCCCGCTCCTACTACGCCAAGCCCTCGCCC
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CTGAAGGAGAAGTACCTGCGGCCGTCCCGCTGCTCTTCCACCCCGAGATGTCAGCCATA
GAGACCATGACAGAGAAGCTGGAGAGCTTTGCAGCCATGAAGGGCGGACTCGGGCAGCTCC
CTGCAGCCCTCCCCACCACCCCTTCACTTCCGGTCCCCACCCCAACGCTCTCCGAC
CCCATCCTCAGGAAGGGCAAGGAGCGATACAGTGCAGGTAAGTGTGGGAAGATCTTCCC
AGATCAGCCAATCTCACCAGACACCTGAGGACGCACACTGGGGAGCAGCCGTACAGGTGT
AAGTACTGCGACCGCTCCTTTCAGCATCTTTCGAACCTCCAGCGCACGTCCGGAACATC
CACAACAAGGAGAAGCCTTTCAAGTGCCACCTGTGCAACCGCTGCTTCGGGCAGCAGACC
AACCTGGACCGGCACCTCAAGAAGCAGCAGCAGGACGAGAACGCACCAGTGAGCCAGCACCCC
GGGGTCTCACGAACCACCTGGGGACCAGCGCTCCTCTCCACCTCAGAGTCGGACAAC
CACGCACTTTTAGACGAGAAAAGACTTTATTTCTCGGAAATCAGAACTTTATTGCC
AATAGTGAGATGAACCAAGCATCAACGCGAACAGAGAAACGGGCGGACATGCAGATCGTG
GACGGCAGTGCCAGTGTCCAGGCTAGCCAGTGAGAAGCAGGAGGACGTGGAGGAGGAG
GACGACGATGACCTGGAGGAGGACGATGAGGACAGCCTGGCCGGGAAGTGCAGGATGAC
ACCGTGTCCCCCGCACCCGAGCCCCAGGCGCCTACGAGGATGAGGAGGATGAGGAGCCA
GCCGCTCCCTGGCCGTGGGCTTTGACCACACCCGAAGGTGTGCTGAGGACCACGAAGGC
GGTCTGTAGCTTTGGAGCCGATGCCGACTTTTGGGAAGGGGCTGGACCTCCGCAGAGCA
GCTGAGGAAGCATTTGAAGTTAAAGATGTGCTTAATTCCACCTTAGATTCTGAGGCTTTA
AAACATACTGTGCAGGACGGCTAAGAACCAGGGTTCTCTGGACGCTTGGTTGAAGGTC
ACTGGAGCCACGTCCGAGTCTGGAGCATTTACCCCATCAACCACCTCTGA

- Restriction Sites:** Please inquire
- ACCN:** NM_199454
- Insert Size:** 3800 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 be a perfect match to NM_199454.1.

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:	<ol style="list-style-type: none">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:	<u>NM_199454.1, NP_955533.1</u>
RefSeq Size:	8669 bp
RefSeq ORF:	3771 bp
Locus ID:	63976
UniProt ID:	<u>Q9HAZ2</u>
Cytogenetics:	1p36.32
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 3' coding region, compared to variant 1, resulting in an isoform (2) that is shorter than isoform 1.</p> <p>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.</p>