

## Product datasheet for SC302988

### PRDM1 (NM\_001198) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PRDM1 (NM_001198) Human Untagged Clone
Tag:	Tag Free
Symbol:	PRDM1
Synonyms:	BLIMP1; PRDI-BF1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_001198 edited  
GACGCGGGGAGAATGTGGACTGGGTAGAGATGAACGAGACTTTTCTCAGATGTTGGATAT  
TTGCTTGGAAAAACGTGTGGGTACGACCTTGGCTGCCCAAGTGTAACTCCAGCACTGT  
GAGTTTTAGGGATTGGCAGAGGGGACCAAGGGGACCATGAAAATGGACATGGAGGATGC  
GGATATGACTCTGTGGACAGAGGCTGAGTTTGAAGAGAAGTGTACATACATTGTGAACGA  
CCACCCCTGGGATTCTGGTGCTGATGGCGGTACTTCGGTTCAGGCGGAGGCATCCTTACC  
AAGGAATCTGCTTTTCAAGTATGCCACCAACAGTGAAGAGTTATTGGAGTGATGAGTAA  
AGAATACATACCAAAGGGCACACGTTTTGGACCCCTAATAGGTGAAATCTACACCAATGA  
CACAGTTCTAAGAACGCCAACAGGAAATATTTTTGGAGGATCTATTCCAGAGGGGAGCT  
TCACCACCTCATTGACGGCTTTAATGAAGAGAAAAGCAACTGGATGCGCTATGTGAATCC  
AGCACACTCTCCCGGGAGCAAAACCTGGCTGCGTGTGAGAACGGGATGAACATCTACTT  
CTACACCATTAAGCCCATCCCTGCCAACCAGGAACCTTCTGTGTGGTATTGTCGGGACTT  
TGCAGAAAAGGCTTCACTACCCCTATCCCGGAGAGCTGACAATGATGAATCTCACACAAAC  
ACAGAGCAGTCTAAAGCAACCGAGCACTGAGAAAAATGAACTCTGCCCAAAGAATGTCCC  
AAAGAGAGAGTACAGCGTGAAAGAAATCCTAAAATTGGACTCCAACCCCTCCAAAGGAAA  
GGACCTTACCCTTCTAACATTTACCCCTCACATCAGAAAAGGACCTCGATGACTTTAG  
AAGACGTGGGAGCCCCGAAATGCCCTTCTACCCTCGGGTCTGTTTACCCCATCCGGGCCCC  
TCTGCCAGAAGACTTTTTGAAAGCTTCCCTGGCCTACGGGATCGAGAGACCCACGTACAT  
CACTCGTCCCCATTCCATCCTCCACCACTCCAAGCCCTCTGCAAGAAGCAGCCCCGA  
CCAAAGCCTCAAGAGCTCCAGCCCTCACAGCAGCCCTGGGAATACGGTGTCCCCTGTGGG  
CCCCGGCTCTCAAGAGCACCGGGACTCCTACGCTTACTTGAACGCGTCTACGGCACGGA  
AGGTTTGGGCTCCTACCCTGGCTACGCACCCCTGCCCCACCTCCCGCCAGCTTTCATCCC  
CTCGTACAACGCTCACTACCCCAAGTTCCTCTTGCCTCCCTACGGCATGAATTGTAATGG  
CCTGAGCGCTGTGAGCAGCATGAATGGCATCAACAACCTTGGCCTCTCCCGAGGCTGTG  
CCCTGTCTACAGCAATCTCCTCGTGGGGCAGCCTGCCCCACCCATGCTCAACCCAC  
TTCTCTCCCGAGCTCGTGCCTCAGATGGAGCCCGGAGTTGCTCCAGCCGGAGCATCC  
CAGGGAGTGCTGTCCCAGGCGCCACAGTGCCTTCTCCTTTACCGGGCCGCGCCAG



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CATGAAGGACAAGGCCTGTAGCCCCACAAGCGGGTCTCCACGGCGGGAACAGCCGCCAC  
GGCAGAACATGTGGTGCAGCCCAAAGCTACCTCAGCAGCGATGGCAGCCCCCAGCAGCGA  
CGAAGCCATGAATCTCATTAAAAACAAAAGAAACATGACCGGCTACAAGACCCCTTCCTA  
CCCCTGAAGAAGCAGAACGGCAAGATCAAGTACGAATGCAACGTTTGCGCCAAGACTTT  
CGGCCAGCTCTCAATCTGAAGGTCCACCTGAGAGTGCACAGTGGAGAACGGCCTTTCAA  
ATGTCAGACTTGCAACAAGGGCTTTACTCAGCTCGCCACCTGCAGAAACACTACCTGGT  
ACACACGGGAGAAAAGCCACATGAATGCCAGGTCTGCCACAAGAGATTTAGCAGCACCCAG  
CAATCTCAAGACCACCTGCGACTCCATTCTGGAGAGAAAACCATACCAATGCAAGGTGTG  
CCCTGCCAAGTTCACCCAGTTTGTGCACCTGAAACTGCACAAGCGTCTGCACACCCGGGA  
GCGGCCCCACAAGTGCTCCAGTGCCACAAGAATACTCCATCTCTGTAGCCTCAAGGT  
TCACCTGAAAGGGAAGTGCCTGCGGCCCGCGCCTGGGCTGCCCTTGGAAAGTCTGAC  
CCGAATCAATGAAGAAATCGAGAAGTTTGACATCAGTGACAATGCTGACCGGCTCGAGGA  
CGTGGAGGATGACATCAGTGTGATCTCTGTAGTGGAGAAGGAAATCTGGCCGTGGTTCAG  
AAAAGAGAAAAGAAAAGTGGCCTGAAAGTGTCTTTGCAAAAGAAACATGGGGAATGGACT  
CCTCTCCTCAGGGTGCAGCCTTTATGAGTCATCAGATCTACCCCTCATGAAGTTGCCTCC  
CAGCAACCCACTACCTCTGGTACCTGTAAGGTCAAACAAGAAACAGTTGAACCAATGGA  
TCCTTAAGATTTTCAGAAAACACTTATTTTGTCTTAAGTTATGACTTGGTGAGTCAGG  
GTGCTGTAGGAAGTGGCTTGTACATAATCCCAGCTCTGCAAAGCTCTCTCGACAGCAAA  
TGGTTTCCCTCACCTCTGGAATTAAGAAGGAACTCCAAAGTACTGAAATCTCAGGGC  
ATGAACAAGGCAAAGGCCATATATATATATATATATATCTGTATACATATTATATATA  
CTTATTTACACCTGTGTCTATATATTTGCCCTGTGATTTTGAATTTTGTGTGGACAT  
GTTTGCATAGCCTTCCATTACTAAGACTATTACCTAGTCATAATTTTTTTCAATGAT  
AATCCTTCATAATTTATTATACAATTTATCATTACAGAAAGCAATAATTAAGAAAGTTTAC  
AATGACTGGAAAGATTCCCTTGTAAATTTGAGTATAAATGTATTTTTGTCTTGTGGCCATTC  
TTTGTAGATAATTTCTGCACATCTGTATAAGTACCTAAGATTTAGTTAAACAAATATATG  
ACTTCAGTCAACCTCTCTCTAATAATGGTTTAAAAATGAGGTTTGGTAATTGCCAAT  
GTTGGACAGTTGATGTGTTCACTCCTGGGATCCTATCATTGAACAGCATTGTACATAAC  
TTGGGGGTATGTGTGCAGGATTACCAAGAATAACTTAAGTAGAAGAAACAAGAAAGGGA  
ATCTTGTATATTTTTGTGATAGTTCATGTTTTTCCCCAGCCACAATTTTACCGGAAGG  
GTGACAGGAAGGCTTTACCAACCTGTCTCTCCCTCCAAAAGAGCAGAATCCTCCACCCG  
CCTGCCCTCCCCACCGAGTCTGTGGCCATTAGAGCGGCCACATGACTTTTGCATCCAT  
TGTATTATCAGAAAATGTGAAGAAGAAAAAATGCCATGTTTTAAAACCACTGCGAAAAT  
TTCCCAAAGCATAGGTGGCTTTGTGTGTGTGCGATTTGGGGGCTTGAGTCTGGGTGGT  
TTTTGTTGTTGGTTTTTGTGCTTTTTTTTTTTTTTTTTTTTTTAAATGTCAAAATGCACA  
AACATGGTGTCTACCAGGAAGGATTCGAGGTAGATAGGCTCAGGCCACACTTTAAAAAC  
AAACACACAAAACAACAAAAACGGGATTTCTAGTCATCTTGGGGTAAAAGCGGGTAAATGA  
ACATTCATCCCCAACACATCAATTGTATTTTTCTGTAAAACCTCAGATTTTCTCAGT  
ATTTGTGTTTTACATTTTATGGTTAATTTAATGGAAGATGAAAGGGCATTGCAAAGTTG  
TTCAACAACAGTTACCTCATTGAGTGTGTCCAGTAGTGCAGGAAATGATGTCTTATCTAA  
TGATTTGCTTCTCTAGAGGAGAAAACCGAGTAAATGTGCTCCAGCAAGATAGACTTTGTGT  
TATTCTATCTTTTATTCTGCTAAGCCCAAAGATTACATGTTGGTGTTCAAAGTGTAGCAA  
AAAATGATGTATATTTATAAATCTATTTATACCACTATATCATATGTATATATATTTATA  
ACCACTTAAATTTGTGAGCCAAGCCATGTAAGATCTACTTTTTCTAAGGGCAAAAAAAA  
AAAAAAAAAAAAAAAAAAGAACTCCTTTCTGAGACTTTGCTTAATACTTGGTACCTCACAA  
TCACGTCGGTATGATTGGGCACCCTTGCCTACTGTAAGAGACCCTAAAACCTTGGTGCAG  
TGGTGGGGACCACAAAACAACCAGGGAGGAAGAGATACATTTTTTTAGTATTAAGGAC  
CATCTAAGACAGCTCTATTTTTTTTTTGGCACTTTATGATTATGTGGTCACACCAAGTC  
ACAGAAAATAAAAACTGACTTTACCGCTGCAATTTTTCTGTTTTCTCCTTACTAAATAC  
TGATACATTACTCCAATCTATTTTATAATTATATTTGACATTTTGTTCACATCAACTAAT  
GTTACCTGTAGAAGAGAACAAATTTTGAATAATCCAGGGAAACCAAGAGCCTTACTGG  
TCTTCTGTAACCTCCAAGACTGACAGCTTTTTATGTATCAGTGTGGATAAACACAGTCC  
TTAACTGAAGGTAACCAAAAGCATCACGTTGACATTAGACCAAACTTTTGTATCCCAA

CTACTCGTTTGTCTTTTTCTCCTTTTGTGCTTTCCCATAGTGAGAATTTTTATAAAGAC  
 TTCTTGCTTCTCTCACCATCCATCCTTCTTTTTCTGCCTTTACATGTGAATGTTGAGC  
 CCACAATCAACAGTGGTTTTATTTTTCTCTACTCAAAGTTAAAAGTACCAAAAGTTAC  
 TGGCTTTTTACTTTGCTAGAACAACAACTATCTTATGTTTACATACTGGTTTACAATGT  
 TATTTATGTGCAAATGTCAAAATGTAATTAATATAAATGTTTCATGCTTTACCAAAAA  
 AAAAAAAAAAAAA

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_001198 unedited  
 TTTGTACGGTCTCCATTTGTATACGACTCATATAGGCGGCCGAGATTCGCCCTTGACGC  
 GGGGAGAATGTGGACTGGGTAGAGATGAACGAGACTTTTCTCAGATGTTGGATATTTGCT  
 TGGAAAAACGTGTGGGTACGACCTTGGCTGCCCAAGTGAACCCAGCACTGTGAGGT  
 TTCAGGGATTGGCAGAGGGGACCAAGGGGACCATGAAAATGGACATGGAGGATGCGGATA  
 TGACTCTGTGGACAGAGGCTGAGTTTGAAGAGAAGTGTACATACATTGTGAACGACCACC  
 CCTGGGATTCTGGTCTGATGGCGGTACTTCGGTTCAGGCGGAGGCATCCTTACCAAGGA  
 ATCTGCTTTTCAAGTATGCCACCAACAGTGAAGAGGTTATTGGAGTGATGAGTAAAGAAT  
 ACATACCAAAGGGCACACGTTTTGGACCCCTAATAGGTGAAATCTACACCAATGACACAG  
 TTCCTAAGAACGCCAACAGGAAATATTTTTGGAGGATCTATTCCAGAGGGGAGCTTACC  
 ACTTCATTGACGGCTNATGAAGAGAAAAAGCACTGGATGCGCTATGTGAATCCAGCAC  
 ACTCTCCCGGGAGCAAAACCTGNCTGCGTGTGAGAACGGGATGAACATCTACTTCTACA  
 CCATTAAGCCCATCCCTGCCAACAGGAACCTTGTGTGGTATTGTGGGACTTTTGCA  
 AAAGGCTTCACTACCCTTTTNCGGAAAGCTTGACATGATGAAATCTTACACAAACCCCG  
 AGCAGTTCTAAAGCCACCCGACCCTTGGAAAAATGAACCTTTGCCCAAAGAATGTCCC  
 CAAAAAGAGTCCAGGCTGGAAAAATCCTAAATTGGGCCCCACCC

**3' Read Nucleotide Sequence:**

>OriGene 3' genomic read for NM\_001198 unedited  
 GGGTTTGGGGCGCATGGGATGGCACTTCCCGTTCAGNGANAGCACTGGGGCAGGGTCA  
 CAGGATGCCACCCGGNATCTGTTGAGAAAAGCTATGACCGCGCCGCAATCTAGAGTCG  
 AGTTTTTTTTTTTTTTTTTTGGTAAAGCATGAACATTTATATTTAATTTACATTTTGACA  
 ATTTGCACATAAATAACATTGTAACCAGTATGTAACATAAGATAGTTTGTGTTCTAG  
 CAAAGTAAAAAGCCAGTAACTTTGGTCAGTTTTAACTTTGAGTAGAGGAAAAATAAAAC  
 CACTGTTGATTGTGGGCTCAACATTCACATGTAAGAGGCAGAAAAGAGAGGATGGATGG  
 TGAGAGAAGCAAGAAGTCTTTATAAAAAATCTCACTATGGGAAAGCACAAAAGGAGAAAA  
 AGAACAAACGAGTAGTTGGGAATCAAAAGTATTTGGTCTAATGTCAACGTGATGCTTTGG  
 TTTACCTTCAGTTAAGGACTGTGTTTATCAAACACTGATACATAAAAAGCTGTCAGTCTT  
 GGAAGTTACAGAAGACCAGTAAGGCTCTTGGGTTCCCTGGATTATTCGAAATTTGTTCT  
 CTTCTACAGGTGAACATTAGTTGATGTGAACAAAATGTCAAATAAATATAAAATAGAT  
 TGGAGTAATGGATCAGTTTTTGTAGTAAGGAGGAAAACAGAAAATTGCAGCGGTAAGTCAG  
 TTTTTTATTTCTGTGACTTGGGTGTGACCACTTAATTCTAAAGTGCCAAAAAAAATAG  
 ACCTGGCTTAAATGGCCCTAATACCTAAAAAGAGGTTTTCTTCTCCTCCCGGTGTGGT  
 TTGGGGGGCCCCACCCTGGCACCAAG

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_001198

**Insert Size:**

5000 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](mailto: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:** The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.

**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\\_001198.2](#), [NP\\_001189.1](#)

**RefSeq Size:** 5165 bp

**RefSeq ORF:** 2370 bp

**Locus ID:** 639

**UniProt ID:** [O75626](#)

**Cytogenetics:** 6q21

**Protein Families:** Transcription Factors

**Gene Summary:** This gene encodes a protein that acts as a repressor of beta-interferon gene expression. The protein binds specifically to the PRDI (positive regulatory domain I element) of the beta-IFN gene promoter. Transcription of this gene increases upon virus induction. Two alternatively spliced transcript variants that encode different isoforms have been reported. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1), also known as PRDM1alpha, encodes the longer isoform (1). The protein encoded by this transcript has also been named PRDI-BF1 alpha.