

Product datasheet for **SC304996**

PRDM15 (NM_022115) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRDM15 (NM_022115) Human Untagged Clone
Tag:	Tag Free
Symbol:	PRDM15
Synonyms:	C21orf83; PFM15; ZNF298
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC304996 representing NM_022115. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**
ATGCCCGCCCGCCCGCCCGGCTTCCGGTGCTGCGCAGTTTCCGGAGCGGATCGCAACCCGGAGTCCG
GATCCGATCCCGCTCTGCACATTCCAAAGGCAGCCGCGCGCCCGCCCGGTCCAGCCGCCATGCCGACTG
TTCTTTGTACATTGCGCGGCTGCGGGCACCGTTGGCGATCGGAGTCAAAACCCGGCTGGATTTCCCGG
AGCCGCTCCGGGATCGCCTGCGCGCCCGCCCGCCCGGGGTCTTCGCCGCCCGCCCGCGGCCCGG
CGGCCCGCCCGCGGGCGGCGTCTGCGCGAGGCCCGAGGGGATGTCGTTATCCCCGCCCTCGGGTA
CAGCCCATGCGGGTGCACGGGGGGTCCCTGGACCCCAACCCCGCTTATAGAGAAGCTGAGTCTGG
TCCAGATTGGGAACCAGAGGGTCAGTGAGCAGCTCTTGAAACATCTCTAGGAATGAGGTGTCCGAC
ACTGAGCCACTGAGCCCTGCGAGTGCAGGCTGCGACGCAATCCTGCCCTACCTCCTGGACCCCTTGCA
CAAACTTTTCTGGGGGAACAGGAAAATCTGCCCCAGCCCTGGGGAAGATTGCGAACGGAGGAGGA
ACTGGGGCAGGCAAGGCCGAATGCGGCTATGAACTGAGTCACACTTGCTAGAGCCGCACGAGATACCT
TTGAACGTGAATACACAAGTTCAGTGACTGTGAGTTTCCATATGAGTTTGCACGGTCTGCTTTTCA
CCCTTCAAGCTGCTGGGGATGAGCGGGTGGAGGGCGTGTGAATCAGCATTCAAGAAGTGCCAGCATG
CACACTTTCCTAAACACTCAGCAACGGGCATCAGAGAAGCAGGTTGCAGGAAGGACATGCCGGTGTCA
GAGATGGCTGAAGATGGGAGCGAAGAGATCATGTTCTGTTGTAAGACTGCAGCCAGTACCACGAC
TCCGAATGTCCCGAGCTGGGCCAGTGGTCATGGTCAAAGACTCCTTTGTGTTAAGCAGGGCAAGGTCT
TGGCCTGCCAGCGGACACGTGCACACCCAGGCGGGGCAGGGGATGCGGGTTATGAGGACAGGGACAGG
GCTGACCCACAGCAGCTTCCAGAAGCAGTCCCTGCAGGCCTGGTGGGCGGCTCAGTGGGACGACGTG
CCCTGCCGTTCCACCCTCACCTGGGGGAGGCTGTGCCACCTGGTGGCCAGGGCAGGTATCCCTTCCT
CCCACTTGAGATCAGACGACTGGAAGATGGAGCCGAGGGGTGTTGCCATCACTCAGCTCGTCAAG
CGGACACAGTTCGGTCCCTTTGAGTCCAGGAGGTCGCCAAATGGGAAAAGGAGTCTGCATTTCCCTG
AAGGTGTTCCAGAAGGACGGGCACCCGTGTGCTTCGACACCTCAACGAGGATGACTGCAACTGGATG
ATGCTGGTGCGGCCAGCGCGGAGGCCGAGCACCAGAACCTGACGGCCTACCAGCACGGCAGCGACGTG



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TACTTCACCACCTCCAGAGACATCCCCCGGGTACCGAGCTGCGCGTGTGGTATGCGGCCTTCTATGCC
AAGAAGATGGACAAGCCCATGCTGAAGCAGGCCGGCTCTGGCGTCCACGCTGCAGGCACCCAGAAAAAC
AGCGCCCCGTGGAGTCGGAGCCAGCCAGTGGCGGTGTAAGTGTGTTCTGCCACCTTCTGGAGCTG
CAGCTCCTCAATGAACATCTGTTGGGCACTTAGAACAAGCCAAAAGCCTTCTCCAGGCAGCCAAAGC
GAGGCAGCAGCTCCCGAGAAGGAGCAGGACACACCCCGGGGGGAACCCCTGCAGTGCCGAGAGCGAG
AATGTTGCCACCAAGAACAAGAAAAAGCCTCGAAGGGGGAGAAAACCAAAGTGTCCAAAGCTGAG
CAGCCTCTAGTCATCGTGAAGACAAGGAACCCACAGAGCAAGTGGCAGAGATCATTACCGAGGTCCCT
CCGGATGAGCCTGTGAGTGCAACGCCAGATGAGCGGATCATGGAGCTGGTTCTGGGGGAAGCTGGCCACC
ACCACCACTGACACCAGCTCGGTTCCAAAGTTCACCCATCATCAGAATAACACCATCACGCTCAAGAGG
AGCTTAATTCTCTCAAGCAGACACGGCATCCGGCGCAAGCTCATCAACAGCTCGGGGAGCACAAGCGG
GTTTACCAGTGAATATCTGCAGCAAGATCTTCCAGAACAGCAGCAACCTGAGCAGGCACGTGCGCTCG
CATGGTGACAAGCTGTTAAGTGCAAGAGTGTGCAAAATTGTTACGCCGCAAGAGAGCCTAAAGCAG
CACGTTTCTACAAGCACAGCAGGAACGAGGTGGACGGCGAGTACAGGTACCGCTGCGGCACTTGTGAG
AAGACCTTCCGCATCGAGAGCGCTGGAGTTCACAACCTGCAGGACAGATGACAAGACGTTCCAATGT
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AAGTTTGCTGTGAGGTCTGCAGCAAGATGTTCTACCGCAAGGACGTATGCTGGACCACAGCGCCGG
CACCTGGAAGGAGTGCAGCGAGTGAAGCGAGAGGACCTGGAGGCCGGTGGGGAGAACCTGGTCCGTTAC
AAGAAGGAGCCTTCCGGGTGCCCGGTGTGTGGCAAGGTGTTCTCCTGCCGGAGCAATATGAACAAGCAC
CTGCTCACCCACGGCGACAAGAAGTACACCTGCGAGATCTGCGGGCGCAAGTCTTCCGCGTGGATGTG
CTCAGGGACCATCCATGTCCACTTCAAGGACATCGCGTTGATGGATGACCAACAGAGGGAAGAGTTT
ATCGGCAAGATCGGGATCTCTCGGAAGAAAACGATGACAATTCTGACGAGAGCGCAGACTCGGAGCCT
CACAAGTACAGCTGCAAGCGGTGCCAGCTCACCTTCGGCCGGGGGAAGGAGTACCTGAAGCAGATCATG
GAGGTGCACAAGGAGAAGGGCTATGGCTGCAGCATCTGCAACCGCGCTTTGCACTGAAGGCCACCTAC
CAGGCCACATGGTCATCCACCGTGAAAACCTGCGGACCCCAACGTGCAGAAGTACATCCACCCCTGC
GAGATCTGCGGGCGGATCTTCAACAGCATCGGGAACCTGGAGCGCCACAAGCTCATCCACACAGGTGTG
AAGAGCCACGCTGCGAGCAGTGTGGGAAGTCTTTGCCAGGAAGGACATGCTGAAGGAGCAGATGCGT
GTGCACGACAATGTCCGCGAGTACCTGTGTGCCGAGTGTGGGAAAGGCATGAAGACCAAGCACGCGCTG
CGCCACCACATGAAGCTGCACAAGGGCATCAAGGAGTACGAGTGAAGGAGTGCCACCGCAGGTTCCGCG
CAGAAGGTCAACATGCTCAAGCACTGCAAGCGGCACACGGGGATTAAAGATTTATGTGTGAATTGTGT
GGGAAGACATTACGCGAGAGGAACACCATGGAGACCCACAAGCTCATCCACACAGTGGGCAAGCAGTGG
ACGTGCTCCGTGTGCGACAAGAAGTACGTGACCGAGTACATGCTGCAGAAGCAGTTTACGCTCACACAC
GACAAGGTGGAGGCGCAGAGCTGCCAGCTGTGCGGGACCAAGGTGTCCACCAGGGCCTCCATGAGCCGA
CACATGCGGGCGCAAGCACCCCGAGGTGCTCGCGGTGAGGATCGATGACCTGGACCACCTCCCGGAGACC
ACCACCATCGACGCTCCTCCATTGGCATCGTCCAGCCTGAGCTGACTCTGGAGCAGGAGGATTTGGCC
GAAGGGAAGCACGGGAAAGCTGCCAAGCGAAGTCAAGAAGAAAGCAGAAGCCAGAAGAGGAGGCGGGT
GCTCCGGTGCCCGAGGAGCCACCTTACGCAATACTCAGAGAAAGAGACGGAGTTACAGGCAGTGTA
GGCGACGAGACCAATTCCGCGATACAGAGCATTACGAGGTAGTGGTACCCTGGGTGACCCAAATGTG
ACCACACCATCGAGCTCAGTCGGCTTAACCAACATCACCGTGACCCCATCACCACTGCGGCCGCGACT
CAGTTTACCAATCTCAGCCGGTGGCGTGGGGCACCTTACCACCCCTGAACGCCAGTTACAGCTGGAC
AACTCAATCCTGACCGTGACCTTTGATACCGTACGCGGCTCTGCCATGTTGCACAACCGCCAAAATGAC
GTCCAGATCCACCCAGCCGAAGCCTCGAACCACAGTCTGTGGCCATTTCATCAACCTGACGACC
CTGGTCAACTCCATCACGCCCTGGGGAGCCAGCTTAGTGACCAGCACCCGCTCAGTGCGCGGCAGTG
CCCCAGACTGACGTCTTGCCACCCTCGCAGCCGAGGCACCCACAGCAGGCGGCCAGCCCGAGGTG
CAGGCGGAGCAGCAGCAGCAGATGTACAGCTACTGA
ACGCGTACGCGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI
ACCN: NM_022115
Insert Size: 4524 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:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_022115.4</u>
RefSeq Size:	4881 bp
RefSeq ORF:	4524 bp
Locus ID:	63977
UniProt ID:	<u>P57071</u>
Cytogenetics:	21q22.3
MW:	169.3 kDa
Gene Summary:	Sequence-specific DNA-binding transcriptional regulator. Plays a role as a molecular node in a transcriptional network regulating embryonic development and cell fate decision. Stimulates the expression of upstream key transcriptional activators and repressors of the Wnt/beta-catenin and MAPK/ERK pathways, respectively, that are essential for naive pluripotency and self-renewal maintenance of embryonic stem cells (ESCs). Specifically promotes SPRY1 and RSPO1 transcription activation through recognition and direct binding of a specific DNA sequence in their promoter regions. Involved in early embryo development (By similarity). Plays also a role in induced pluripotent stem cells (iPSCs) reprogramming (PubMed:28740264).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) encodes the longest 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.