

Product datasheet for SC310722

PRDM15 (NM_001040424) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | PRDM15 (NM_001040424) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | PRDM15 |
| Synonyms: | C21orf83; PFM15; ZNF298 |
| Vector: | <u>pCMV6 series</u> |
| Fully Sequenced ORF: | >NCBI ORF sequence for NM_001040424, the custom clone sequence may differ by one or more nucleotides |

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ATGCCCCGCCGCCCCCGGCTTCCGGTGTGCGCAGTTTCCGGAGCGGATCGCAACC
CGGAGTCCGGATCCGATCCCGCTCTGCACATTCCAAGGCAGGTGTGAGAGATGGCTGAA
GATGGGAGCGAAGAGATCATGTTTCATCTGGTGTGAAGACTGCAGCCAGTACCACGACTCC
GAATGTCCCGAGCTGGGCCAGTGGTCAAGACTCCTTTGTGTTAAGCAGGGCA
AGGTTCATCCCTTCTCCCACTTGGAGATCAGACGACTGGAAGATGGAGCCGAGGGGGTG
TTCGCCATCACTCAGCTCGTCAAGCGGACACAGTTCGGTCCCTTTGAGTCCAGGAGGGTC
GCCAAATGGGAAAAGGAGTCTGCATTTCCCTGAAGGTGTCCAGAAGGACGGGCACCCC
GTGTGCTTCGACACCTCCAACGAGGATGACTGCAACTGGATGATGCTGGTGCAGCCAGCG
GCGGAGGCCGAGCACCAGAACCTGACGGCCTACCAGCACGGCAGCGACGTGACTTCACC
ACCTCCAGAGACATCCCCCGGGTACCGAGCTGCGCGTGTGGTATGCGGCCTTCTATGCC
AAGAAGATGGACAAGCCCATGCTGAAGCAGGCCGGCTCTGGCGTCCACGCTGCAGGCACC
CCAGAAAACAGCGCCCCGTGGAGTCCGAGCCAGCCAGTGGCGTGTAAAGTGTGTTCT
GCCACCTTCTGGAGTGCAGCTCCTCAATGAACATCTGTTGGGCCACTTAGAACAAAGCC
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CCCCGGGGGGAACCCCTGCAGTCCCGAGAGCGAGAATGTTGCCACCAAGAACAAGAG
AAAAAGCCTCGAAGGGGAGAAAACCCAAAGTGTCCAAAGCTGAGCAGCCTCTAGTCATC
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GAGCCTGTGAGTGCAACGCCAGATGAGCGGATCATGGAGCTGGTCTGGGGAAGCTGGCC
ACCACCACCACTGACACCAGCTCGGTTCCAAAGTTCACCCATCATCAGAAATAACACCATC
ACGCTCAAGAGGAGCTTAATTCTCTCAAGCAGACACGGCATCCGGCGCAAGCTCATCAA
CAGCTCGGGGAGCACAAGCGGGTTTACCAGTGAATATCTGCAGCAAGATCTTCCAGAAC
AGCAGCAACCTGAGCAGGCAGTGCCTCGCATGGTGAAGCTGTTAAGTGCAGGAGAG
TGTGCAAAATTGTTGAGCGCAAAGAGAGCCTAAAGCAGCACGTTTCTACAAGCACAGC
AGGAACGAGGTGGACGGCGAGTACAGGTACCGCTGCGGCACTTGTGAGAAGACCTTCCGC
ATCGAGAGCGCGCTGGAGTTCACAACCTGCAGGACAGATGACAAGACGTTCCAATGTGAG
ATGTGTTTCAGATTCTTCTCCACCAACAGCAACCTCTCCAAGCACAAGAAGAAGCACGGC
GACAAGAAGTTTGCCTGTGAGGTCTGCAGCAAGATGTTCTACCGCAAGGACGTCATGCTG
GACCACCAGCGCCGGCACCTGGAAGGAGTGCAGCGAGTGAAGCGAGAGGACCTGGAGGCC
GGTGGGGAGAACCTGGTCCGTTACAAGAAGGAGCCTTCCGGGTGCCCGGTGTGTGGCAAG

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GTGTTCTCCTGCCGGAGCAATATGAACAAGCACCTGCTCACCCACGGCGACAAGAAGTAC
 ACCTGCGAGATCTGCGGGCGCAAGTTCTTCCGCGTGGATGTGCTCAGGGACCACATCCAT
 GTCCACTTCAAGGACATCGCGTTGATGGATGACCACCAGAGGGAAGATTATCGGCAAG
 ATCGGGATCTCCTCGGAAGAAAACGATGACAATTCTGACGAGAGCGCAGACTCGGAGCCT
 CACAAGTACAGCTGCAAGCGGTGCCAGCTCACCTTCGGCCGGGGGAAGGAGTACCTGAAG
 CACATCATGGAGGTGCACAAGGAGAAGGGCTATGGCTGCAGCATCTGCAACCGGCGCTTT
 GCACTGAAGGCCACCTACCACGCCACATGGTCATCCACCGTGAACCTGCCGGACCCC
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 AACCTGGAGCGCCACAAGCTCATCCACACAGGTGTGAAGAGCCACGCCTGCGAGCAGTGT
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 CACACAGTGGGCAAGCAGTGGACGTGCTCCGTGTGCGACAAGAAGTACGTGACCGAGTAC
 ATGCTGCAGAAGCACGTTTCAGCTCACACACGACAAGGTGGAGGGCGAGAGCTGCCAGCTG
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 GCCTCCTCCATTGGCATCGTCCAGCCTGAGCTGACTCTGGAGCAGGAGGATTTGGCCGAA
 GGGAAAGCACGGGAAAGCTGCCAAGCGAAGTACAAGAGAAAGCAGAAGCCAGAAGAGGAG
 GCGGGTGTCCGGTGCCCGAGGACGCCACCTTCAGCGAATACTCAGAGAAAGAGACGGAG
 TTCACAGGCAGTGTAGGCGACGAGACCAATTCGCGAGTACAGAGCATTTCAGCAGGTAGTG
 GTGACCTGGGTGACCCAAATGTGACCACACCATCGAGCTCAGTCGGCTTAACCAACATC
 ACCGTGACCCCATCACCACTGCGGGCGGACTCAGTTTACCAATCTCCAGCCGGTGGCC
 GTGGGGCACCTTACCACCCTGAACGCCAGTTACAGCTGGACAACCTCAATCCTGACCGTG
 ACCTTTGATACCGTCAGCGGCTCTGCCATGTTGCACAACCGCCAAAATGACGTCCAGATC
 CACCCCGAGCCGAAGCCTCGAACCCACAGTCTGTGGCCATTTTCATCAACCTGACGACC
 CTGGTCAACTCCATCACGCCCTGGGGAGCCAGCTTAGTGACCAGCACCCGCTCACGTGG
 CGGGCAGTGCCCGAGACTGACGTCTTGCCACCCTCGCAGCCGAGGCACCCACAGCAG
 GCGGCCAGCCCCAGGTGCAGGCGGAGCAGCAGCAGCAGATGTACAGCTACTGA

- Restriction Sites:** Please inquire
- ACCN:** NM_001040424
- 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: [NM_001040424.1](#), [NP_001035514.1](#)

RefSeq Size: 6654 bp

RefSeq ORF: 3537 bp

Locus ID: 63977

UniProt ID: [P57071](#)

Cytogenetics: 21q22.3

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 (2) lacks seven alternate in-frame exons and differs in the 3' UTR, compared to variant 1. The encoded isoform (2) is shorter than 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.