

Product datasheet for **SC318109**

ZCWPW1 (NM_017984) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | ZCWPW1 (NM_017984) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | ZCWPW1 |
| Synonyms: | ZCW1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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Fully Sequenced ORF: >SC318109 representing NM_017984.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGATGACAACGTTGCAGAATAAAGAAGAATGTGAAAGGGACCAAGAGAATCTTTGCCACCTGCA
CAAAAATCTTACAGCCTGTACCTTGTAGCCCTAACTCCCCTAAGGAGGAGACCCGGGGATCAGTTCC
CCAGAGACAGAGGCCAGGATAAGCCTGCCAAAGGCCAGTTTAAAGAAGAAAGAGGAAAAAGCAACCATG
AAGAATGTTCCAAGCAGGGAACAGGAGAAAAAAGAAAGGCACAAATCAACAAGCAAGCAGAGAAGAAA
GAAAAGGAAAAATCAAGTCTTACCAATGCAGAATTTGAGGAGATTGTCCAGATTGTTCTGCAGAAGTCC
CTTCAGGAGTGCTTGGGGATGGGATCTGGCCTTGATTTTGCAGAGACTTCTTGTGCCAGCCGCTAGTA
TCTACCAATCAGACAAGGAGCCAGGAATTACTGCTTCTGCTACTGATACTGATAATGCTAATGGAGAG
GAGGTACCACATACTCAAGAGATTTCAAGTGTCTTGGGAAGGTGAAGCTGCCCTGAGATAAGGACATCT
AAGTTAGGCCAGCCAGATCCTGCACCCTAAGAAGAAATCCAATAGACTCACCTTAAGCAAAGAAAG
AAGGAAGCTCATGAGAAGGTGGAGAAAACCTCAAGGTGGACATGAGCACAGACAGGAAGACCGACTAAG
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CTGGTCTGGGTCCAGTGTTCCTCCCAAAGTGTGGGAAATGGAGGCGGCTGTGTGGGAACATTGACCCC
TCAGTTCTCCAGATAATTGGTCTGTGATCAGAACACAGATGTGCAGTATAATCGCTGTGATATTCCT
GAGGAGACCTGGACAGGGCTTGAGAGTGATGTGGCCTATGCCTCTACATCCCAGGATCCATCATCTGG
GCCAAGCAATACGGTTACCCCTGGTGGCCAGGCATGATAGAATCTGATCTGACTTAGGGGAATATTTT
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CGTGCATGGATCCAGTCAACATGCTAAGAAGTCCAGGAGCTGTCCCTGGAGCTATCAGTCATGAAA
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AGCATTACAGGAACGGGTTAACTTGTGGTTTCTGGAGCCGATTCAACGGATCTAACAGTAAATGGGGAA
AGAAAAGACTTACAGCTCTCTGTTTGAACAGCCAGGATCCTGCTTAGAGAAAAAGGAGAAAGAGGAA
GAGTTGGAAAAGGAGGAAGGAGAGAAAAACAGCCAAATTTGCCATTGTAAGCGAGTCAAAAATACAG
ACCCAAAAAACCAGCAAGAGGGCTTGGGGTGTGACAGGCACAGCAGATGGCCGAGGCAGGACACTG
CAGAGGAAGATAATGAAGAGATCTTAGGCAGGAAATCCACAGCTCCTCTGCACCCAGAATGGGAAGG
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AAGGCCTTGGCAGCCAGCTTTTTCAGAGGAAAAGAAGTTAGAACAGTGCCAAAGAACCTGGGCCTATCA
GCGTGTAAAGGGGCTGCCCTCATCTGCGAAAGAAGAGCCAGACCCGGAACCCCTGACCCAGGAG
GCTGGAAGTGTCCCCTTGGAGGACGAAGCTCCAGTGACCTGGACCTGGAGCAACTCATGGAAGATGTT
GGGAGAGAGCTGGGGCAGAGCGGGAGCTGCAGCACAGCAACAGTGATGGCGAGGACTTCCCCTGGCG
CTGTTTGGGAAGTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

ACCN: NM_017984

Insert Size: 1947 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.

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| 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: | NM_017984.4 |
| RefSeq Size: | 2485 bp |
| RefSeq ORF: | 1947 bp |
| Locus ID: | 55063 |
| UniProt ID: | Q9H0M4 |
| Cytogenetics: | 7q22.1 |
| Domains: | PWWP |
| MW: | 72 kDa |
| Gene Summary: | Dual histone methylation reader specific for PRDM9-catalyzed histone marks (H3K4me3 and H3K36me3) (PubMed:32744506, PubMed:20826339). Facilitates the repair of PRDM9-induced meiotic double-strand breaks (DSBs) (By similarity). Essential for male fertility and spermatogenesis (By similarity). Required for meiosis prophase I progression in male but not in female germ cells (By similarity).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). |