

## Product datasheet for **MC219954**

### Zcwpw1 (NM\_001005426) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Zcwpw1 (NM_001005426) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Zcwpw1
Synonyms:	Gm1053
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC219954 representing NM\_001005426  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATGGCAGCATTACAGACTCACAAAGAATACGAAAAGGAACAAAGAAAACCTTTGCTCCACCTACAC  
 AAAAATTACATAGCGAGAAACCTCAGCCAGCTCATGGAAGGAGGACGCCCCAGGGACCAGTTCTCCAGA  
 GGCAGAGACCAAGCCAAGCCTGCTCAAAGCCAGCTTAAAGAAGGAGCAGAAACCAACCACAGAGCATGGT  
 CCAAACAGGGGCCAGGAGAGAAAGCTAAAGGCTCAGGACCAGCCAGCCAAGAAGAAAGGAAAGAAAGAA  
 CTCTTACCAGTGCAGAAATTTGAGGAGATTTCCAGATTGACTACAGAAGTCCCTGCAGGAGTGCTTGG  
 GACTTCTTCTGTGTCCAACACATCAGACCTACCAAATTTGGATGAAGAACCAGGCGCATTGTTCTCTCTGCA  
 ACTGATAAGAAAGATGCTGATCCAGAGAAGGTAATAACTCCTGATACTCCAAAGATTGCATCTTCTTTAG  
 AAGAGGAAGTGAATTCGAGATGGGACATCTAAGCTAGGCCAGCCAGTTACTGAACCTCTAAGAAGAA  
 ATTTAATAGACTCTTTAAGCAAACAAAAGAAGAAAGCTGAAGATGAGAAAATGGAGAAGATCCAAGAT  
 GGCCGTGAGTGCAGTCTGAAGGAGAAACAGAAGATAGTGATTCAGGATCAGTCTCAGATCAGAGGTCGCC  
 AGAAGGAAGAGGAGAGTGGTTTTGGCCACTGTGTCTATCTGGGTTCACTGTTCTCTCCAAAGTGTGAGAA  
 GTGGCGGCAGCTACGTGGAAACATTGATCCCTCAGTTCTTCCAGACGACTGGTCTTGTGACCAGAATCCA  
 GATCCGAATTATAATCGCTGTGACATTCCTGAGGAGAGCTGGGCAGGGTGCAGAGTGTGTGGCCATG  
 CCTCTATGTCCCAGGATCCATCATCTGGGCCAAGCAATATGGCTACCCATGGTGGCCAGGCATGATAGA  
 AGCTGATCCTGACCTGGGGGAGTACTTTCTGTTGCTTCTCATCTTGATTCCCTGCCGTCTAAGTACCAC  
 GTGACATTTTTTGGAGAAAACGGTTTCTCGTGCATGGATCCAGTCCGCATGTTAAAGAACTCCAGGAGC  
 TGCTTTTGGAGCTAGTGAAAAAATGCAAGAACAAGAAGTCTAATCAGAAGCTGGAGGCAGCCATAGCGAT  
 GGCTCACAGGGCAGAACAGACCAGTATTCAGGAGCGGGTAACTTGTTTTGGTTTTCTGGAGTCGATACAAT  
 GGAGCTGACATCAGTGAAGGAAGGGGAAGATTTGACTCTCTGTGAGTCCAACAACCCTGAGTCTTGTCTGG  
 AGAAGGAAGAGAAGGACTTAGAGGAGGAGAAGGAGGAGGAAGAAGAGAAGAAAGATCCAACCTTGGCTAG  
 ACCCAAGCCAGCTAAAATGCAGACAAAAAGCCCAAGTCAAGAGGCCAGCTGGAGGACCAGATGGGACT  
 CCAAAGAAGAAGACTGCGAAGAAATCTCTGGTCAAGTCCACAGTCCCTCCTGTACCCACACTGGGAG  
 GGAAGGAAGAGCAGGGAACTCAGACCTGGACCATCCAGTCCCTAAGAAAAAATTTAAAGCTCCTGAGAA  
 CAAGACTTCAGCCACCACTTATCTGAGGAGAAAGAAATTTAAATTTGTGTTCCAAATGCCCTACTCCATCA  
 GCTCAGCATGGGGCTTGTCCATTGGGAAAGGAAGGGCTTGTGCCACATGCCCCGACACAGGAGGCAG  
 CAAGTTTCCCTCCTGACGATGATTGCTCCAGTGCCTGGACTTGAGCAACTCATGGAAGACATTGGAGA  
 GCCAGAAGAGAGAGGGGAGATGCAGCAGAGAGGCGACTCAGAGGAGTTCTTGGCGGCCCTTTTGGAGGAG  
 TAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001005426
- Insert Size:** 1893 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).
- 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001005426.2</a></u> , <u><a href="#">NP_001005426.2</a></u>
<b>RefSeq Size:</b>	2271 bp
<b>RefSeq ORF:</b>	1893 bp
<b>Locus ID:</b>	381678
<b>UniProt ID:</b>	<u><a href="#">Q6IR42</a></u>
<b>Cytogenetics:</b>	5 G2
<b>Gene Summary:</b>	<p>Dual histone methylation reader specific for PRDM9-catalyzed histone marks (H3K4me3 and H3K36me3) that facilitates the repair of PRDM9-induced meiotic double-strand breaks (DSBs) (PubMed:32374261, PubMed:32352380, PubMed:32744506). Essential for male fertility and spermatogenesis (PubMed:31453335, PubMed:32374261, PubMed:32352380, PubMed:32744506). Required for meiosis prophase I progression in male but not in female germ cells (PubMed:31453335).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 both encode the same protein.</p>