

Product datasheet for **RG234355**

ZCWPW1 (NM_001258008) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZCWPW1 (NM_001258008) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZCWPW1
Synonyms:	ZCW1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234355 representing NM_001258008
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATGACAACGTTGCAGAATAAAGAAGAATGTGGAAAGGACCAAGAGAATCTTTGCCCCACCTGCAC
 AAAAATCTTACAGCCTGTTACCTTTAGCCCTAACTCCCTAAGGAGGAGACCCCGGGATCAGTTCCCC
 AGAGACAGAGGCCAGGATAAGCCTGCCAAAGGCCAGTTTAAAGAAGAAAGAGGAAAAAGCAACCATGAAG
 AATGTTCCAAGCAGGGAACAGGAGAAAAAAGAAAGGCACAAATCAACAAGCAAGCAGAGAAGAAAGAAA
 AGGAAAAATCAAGTCTTACCAATGCAGAAATTTAGGAGATTGTCCAGATTGTTCTGCAGAAGTCCCTTCA
 GGAGTGCTTGGGATGGGATCTGGCCTTGATTTTGCAGAGACTTCTTGCCAGCCCGTAGTATCTACC
 CAATCAGACAAGGAGCCAGGAATTACTGCTTCTGCTACTGATACTGATAATGCTAATGGAGAGGAGGTAC
 CACATACTCAAGAGATTTCAAGTGTCTTGGGAAGGTGAAGCTGCCCTGAGATAAGGACATCTAAGTTAGG
 CCAGCCAGATCTGCACCCTCTAAGAAGAAATCCAATAGACTCACCTTAAGCAAAAGAAAGAAAGGAAGCT
 CAAGATGAGAAGGTGGAGAAAATCAAGGTGGACATGAGCACAGACAGGAAGACCGACTAAAGAAAAACAG
 TTCAGGATCATTCTCAGATCAGGACAGCAAAAAGGAGAGATAAGTGGTTTTGGTCAATGTCTGGTCTG
 GGTCCAGTGTTCCCTTCCCAAACTGTGGGAAATGGAGGCGGCTGTGTGGGAACATTGACCCCTCAGTTCTC
 CCAGATAATTGGTCTGTGATCAGAACACAGATGTGCAGTATAATCGCTGTGATATTCTGAGGAGACCT
 GGACAGGGCTTGAGAGTGATGTGCCTATGCCTCTACATCCAGGATCCATCATCTGGGCCAAGCAATA
 CGGTTACCCCTGGTGGCCAGGCATGATAGAATCTGATCCTGACTTAGGGGAATATTTTCTTTTACTTCC
 CATCTTGATTCCCTGCCGTCTAAGTACCATGTGACGTTTTTTGGAGAAACAGTTTCTCGTCATGGATCC
 CAGTCAACATGCTAAAGAACTTCCAGGAGCTGTCCCTGGAGCTATCAGTCATGAAAAAGCGCAGAAATGA
 CTGCAGCCAGAAACTGGGGGTGGCCCTGATGATGGCTCAAGAGGCAGAACAGATCAGATTCAAGGAACGG
 GTTAACTTGTGTTGTTTGGAGCCGATTCAACGATCTAACAGTAATGGGGAAGAAAGAAAGACTTACAGC
 TCTCTGTTTGAACAGCCAGGATCCTGCTTAGAGAAAAAGGAGAAAGAGGAAGATTGGAAGAGGGA
 AGGAGAGAAAAACAGCCCTAAGAAAAATTTAAAGCTCCCAGAGCAAGGCCTTGGCAGCCAGCTTTTCAG
 AGGGAAAAGAAGTTAGAACAGTGCCAAAGAACCTGGGCCATCAGCGTGTAAAGGGGCTGCCCTCATC
 TCGGAAAGAAGAGCCAGACACCGGAACCCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

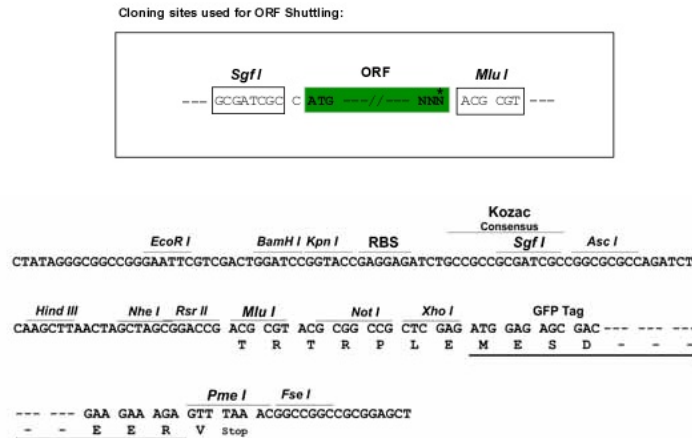
>RG234355 representing NM_001258008
 Red=Cloning site Green=Tags(s)

MMTTLQNKEECGKPKRIFAPPAQKSYSLLPCSPNSPKEETPGISSPETEARISLPKASLKKKEEKATMK
 NVPSREQEKKKAQINKQAEKKEKSSLTNAEFEEIVQIVLQKSLQECLMGSGLDFAETSCAQPVVST
 QSDKEPGITASATDTDNANGEEVPHQTQEISVSWEGEAAPEIRTSKLGQPDPAKSKKSNRLTLKRKKEA
 QDEKVEKTQGGHEHRQEDRLKKTVDHSQIRDQKGEISGFQCLVWVQCSFPNCGKWRRLCGNIDPSVL
 PDNWSCDQNTDVQYNRCDIPEETWTGLESDVAYASYIPGSIWAKQYGYPPWPGMIESDPDLGEYFLFTS
 HLDLSLPKYHVTFFGETVSRWIPVNMKNFQELSLELSVMKKRRNDCSQKLGVALLMMAQEAQISIQER
 VNLFGFWSRFNGSNSNGERKDLQLSGLNSPGSCLEKKEKEEKEEKEKTALRKNLKLPRARPWQPAFQ
 REKKLEQCQRTWAYQVRGPAPHLRKKSPDTGNP

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001258008

ORF Size: 1572 bp

OTI Disclaimer: 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: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001258008.2](#)

RefSeq Size: 2274 bp

RefSeq ORF: 1575 bp

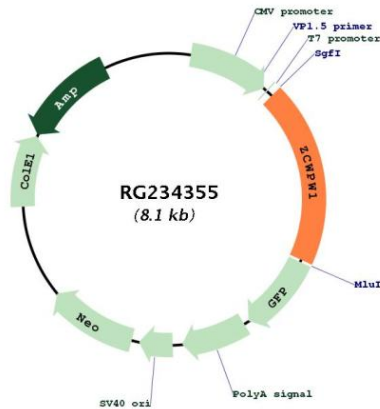
Locus ID: 55063

UniProt ID: [Q9H0M4](#)

Cytogenetics: 7q22.1

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]

Product images:


Circular map for RG234355