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Product datasheet for RC220757

ZCWPW2 (NM_001040432) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZCWPW2 (NM_001040432) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZCWPW2
Synonyms:	ZCW2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

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>RC220757 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATAAAGAAAAATTGGATGTTAAGATTGAATATTGTAACTATGCAATGGATTCCTCAGTGGAAAACA
TGTATGTAAACAAAGTGTGGGTTCAATGTGAGAATGAAAATTGTTTGAAATGGAGATTGTTATCAAGTGA
GGATTCAGCCAAGGTTGATCATGATGAACCATGGTACTGCTTCATGAACACTGATTCAAGATATAATAAC
TGCTCAATTTCTGAAGAAGACTTCCCTGAAGAGTCTCAGCTTCATCAGTGTGGATTTAAGATTGTCTATT
CACAGCTCCCTCTTGGAAGCCTGGTTTTGGTAAAATTACAGAATTGGCCAAGTTGGCCAGGAATACTTTG
CCCTGACCGTTTTAAAGGGAAATATGTAACTTATGACCCGGATGGAAATGTTGAAGAGTATCACATAGAA
TTCCTGGGCGATCCCCATTCAAGATCATGGATAAAGGCAACATTCGTTGGACATTATAGTATCACATTAA
AGCCAGAAAAGTGTAAGAATAAAAAGAAGTGGTATAAAAGTGCACTACAAGAAGCATGTCTACTCTATGG
ATATTCTCATGAGCAAAGACTGGAAATGTGCTGCCTATCAAAACTACAAGATAAATCCGAAACACATGAC
AAAGTTGCTGCACTGGTCAAGAAAAGGAAGCAGACTTCTAAAAATAATATTGAAAAGAAGAAGCCCAAAT
TTAGAAAAAGGAAAAGGAAAGCAATTTTAAAATGCTCTTTTGAAAATGTTTATTCTGATGATGCCTTATC
AAAGGAGAACAGGGTTGTCTGTGAGACGGAAGTTTTACTAAAAGAGCTGGAGCAAATGCTGCAGCAAGCA
CTGCAACCCACAGCCACACCTGATGAATCAGAAGAAGGACATGGAGAGGAAATAAATATGGGAGAAAAGT
TATCTAAATGCAGCCCAGAAGCTCCTGCAGGCAGTCTGTTTGAAAACCACTATGAAGAGGACTATCTTGT
AATTGATGGGATAAAATTAAAAGCTGGAGAATGTATTGAGGATATAACTAATAAATTTAAAGAAATAGAT
GCTTTGATGTCTGAGTTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Protein Sequence:

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>RC220757 protein sequence
Red=Cloning site Green=Tags(s)

MDKEKLDVKIEYCNYAMDSSVENMYVNKVWVQCENENCLKWRLLSSEDSAKVDHDEPWYCFMNTDSRYNN
CSISEEDFPEESQLHQCGFKIVYSQLPLGSLVLVKLQNWPSWPGILCPDRFKGKYVTYDPDGNVEEYHIE
FLGDPHSRSWIKATFVGHYSITLKPEKCKNKKKWYKSALQEACLLYGYSHEQRLEMCCLSKLQDKSETHD
KVAALVKKRKQTSKNNIEKKKPKFRKRKRKAILKCSFENVYSDDALSKENRVVCETEVLLKELEQMLQQA
LQPTATPDESEEGHGEEINMGEKLSKCSPEAPAGSLFENHYEEDYLVIDGIKLKAGECIEDITNKFKEID
ALMSEF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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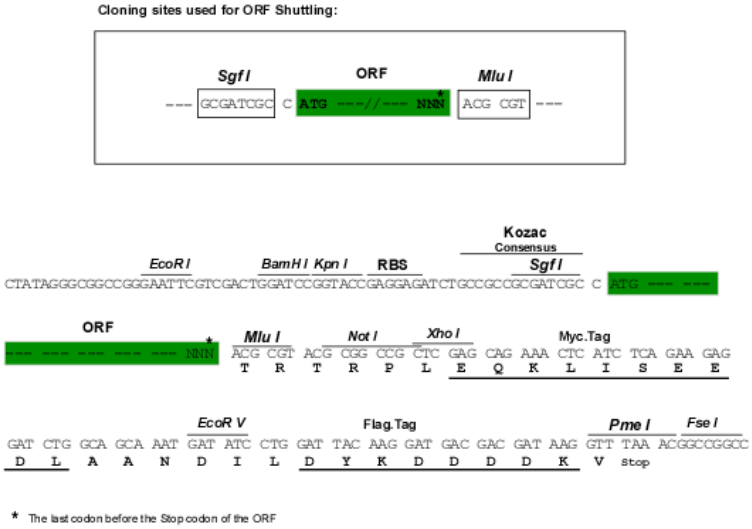
Chromatograms: https://cdn.origene.com/chromatograms/mk6600_d05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001040432

ORF Size: 1068 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).

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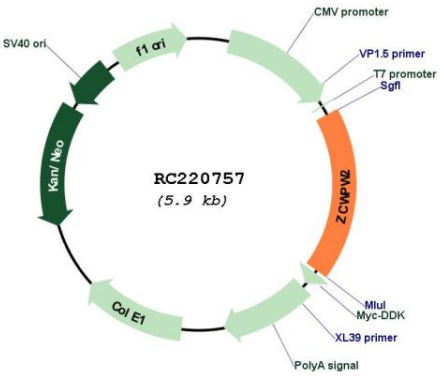
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001040432.4
RefSeq Size:	1752 bp
RefSeq ORF:	1071 bp
Locus ID:	152098
UniProt ID:	Q504Y3
Cytogenetics:	3p24.1
MW:	41.4 kDa
Gene Summary:	Histone methylation reader which binds to non-methylated (H3K4me0), monomethylated (H3K4me1), dimethylated (H3K4me2) and trimethylated (H3K4me3) 'Lys-4' on histone H3 (PubMed:26933034). The order of binding preference is H3K4me3 > H3K4me2 > H3K4me1 > H3K4me0 (PubMed:26933034).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC220757

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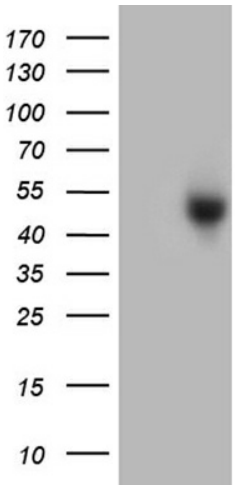
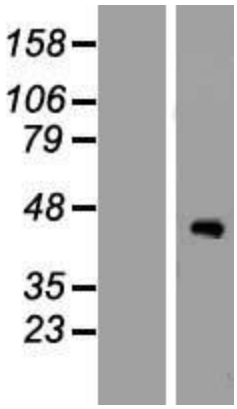


HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ZCWPW2 (Cat# RC220757, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ZCWPW2 (Cat# [TA809589])(1:2000). Positive lysates [LY421752] (100ug) and [LC421752] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY421752]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220757 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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