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Product datasheet for RC210692

ZWINT (NM_007057) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZWINT (NM_007057) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZWINT
Synonyms:	HZwint-1; KNTC2AP; SIP30; ZWINT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC210692 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGGCAGCGGAGACAGAGGCGGAAGCTGCAGCCCTAGAGGTCCTGGCTGAGGTGGCAGGCATCTTGG
AACCTGTAGGCCTGCAGGAGGAGGCAGAACTGCCAGCCAAGATCCTGGTTGAGTTTGTGGTGGACTCTCA
GAAGAAAGACAAGCTGCTCTGCAGCCAGCTTCAGGTAGCGGATTTCCTGCAGAACATCCTGGCTCAGGAG
GACACTGCTAAGGGTCTCGACCCCTTGGCTTCTGAAGACACGAGCCGACAGAAGGCAATTGCAGCTAAGG
AACAATGGAAAGAGCTGAAGGCCACCTACAGGGAGCACGTAGAGGCCATCAAAATTGGCCTCACCAAGGC
CCTGACTCAGATGGAGGAAGCCCAGAGGAAACGGACACAACTCCGGGAAGCCTTTGAGCAGCTCCAGGCC
AAGAAACAAATGGCCATGGAGAAACGCAGAGCAGTCCAGAACCAGTGGCAGCTACAACAGGAGAAGCATC
TGCAGCATCTGGCGGAGGTTTCTGCAGAGGTGAGGGAGCGTAAGACAGGGACTCAGCAGGAGCTTGACGG
GGTGTTTCAGAAACTTGGAAACCTGAAGCAGCAGGCAGAACAGGAGCGGGACAAGCTGCAGAGGTATCAG
ACCTTCCTCCAGCTTCTGTATACCCTGCAGGGTAAGCTGTTGTTCCCTGAGGCTGAGGCTGAGGCAGAGA
ATCTTCCAGATGATAAACCCCAGCAGCCGACTCGACCCCAGGAGCAGAGTACAGGAGACACCATGGGGAG
AGACCCTGGTGTGTCCTTCAAGGCTGTTGGTCTACAACCTGCTGGAGATGTAAATTTGCCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC210692 protein sequence
Red=Cloning site Green=Tags(s)

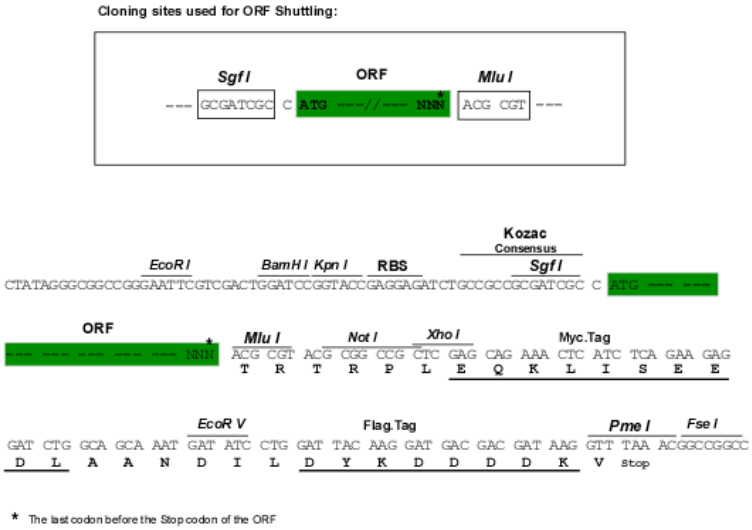
MEAAETEAEAAALEVLAEVAGILEPVGLQEEAELPAKILVEFVVDSQKKDKLLCSQLQVADFLQNILAQE
DTAKGLDPLASEDTSRQKAIAAKEQWKELKATYREHVEAIKIGLTKALTQMEEAQRKRTQLREAFEQLQA
KKQMAMEKRRAVQNQWQLQQEKHLQHLAEVSAEVRERKTGTQQELDGVFQKLGNLKQQAEQERDKLQRYQ
TFLQLLYTLQGKLLFPEAEAEAENLPDDKPQQPTRPQEQSTGDTMGRDPGVSFKAVGLQPAGDVNLP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6544_e06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007057

ORF Size: 831 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_007057.1
RefSeq Size:	1687 bp
RefSeq ORF:	834 bp
Locus ID:	11130
UniProt ID:	O95229
Cytogenetics:	10q21.1
Protein Families:	Druggable Genome
MW:	31.2 kDa
Gene Summary:	This gene encodes a protein that is clearly involved in kinetochore function although an exact role is not known. It interacts with ZW10, another kinetochore protein, possibly regulating the association between ZW10 and kinetochores. The encoded protein localizes to prophase kinetochores before ZW10 does and it remains detectable on the kinetochore until late anaphase. It has a uniform distribution in the cytoplasm of interphase cells. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

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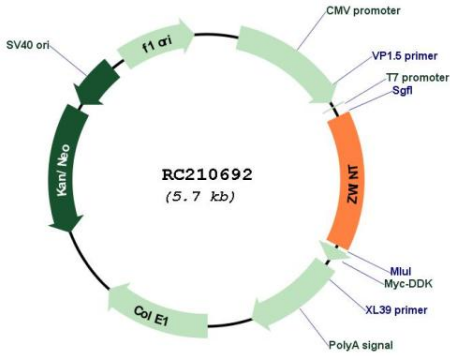
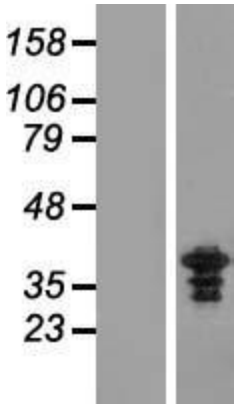
Product images:



Circular map for RC210692



Western blot validation of overexpression lysate (Cat# [LY409797]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC218480] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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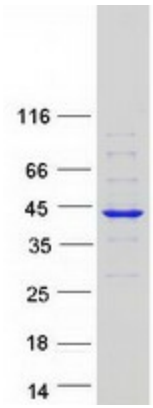

Coomassie blue staining of purified ZWINT protein (Cat# [TP310692]). The protein was produced from HEK293T cells transfected with ZWINT cDNA clone (Cat# RC210692) using MegaTran 2.0 (Cat# [TT210002]).

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