

Product datasheet for **MR228800**

Zwint (NM_001293684) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zwint (NM_001293684) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Zwint
Synonyms:	2010007E07Rik; 2600001N01Rik; D10Ert749e; Zwint-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR228800 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGACGCGGAGAAAAACGCTGTTGCGGAGAAAAACAACGCTGTTGCGACGAAAGAGGTTCTGGCTG
AGGCAGCAGCCATTCTAGAACCTGTAGGCTTGCAGGAAGAAGCAGAGCTGCCTGCCAAGATCATGGAGGA
GTTTATGAGGAACTCGCGGAAGAAAGACAACTGCTCTGTAGCCAGCTTCAAGTAGTGAACCTTTACAG
ACTTTTCTGGCTCAGGAGGACACTGAGCAGAGCCCTGATGCTCTGGCTTCTGAAGATGCCAGTCGGCAA
AGGCAACTGAAACTAAGGAGCAGTGAAGGACATGAAGGCCACATACATGGATCACGTGGATGTCATAAA
ATGTGCCCTGTCTGAGGCCTTACCCAGGTTAAAGAGGCTCACAGGAAGTACACAGAGCTTCAGAAGGCT
TTTGAGCAACTCGAGGCTAAGAAGCGAGTCTTGAGGAGAACTTCAGCTGGCTCAGAAGCAGTGGGTAC
TGCAACAGAAGCGTTTGCAGAACCTGACAAAGATTTCTGCAGAGGTCAAGAGGCGCCGGAAGAGGCTCT
GGAGAAGCTTGACGGATCCCATCAGGAAGTGAAGCAAGCGGGGAGGAACAGGAGAAG
CTGCAGAGGAACCAGAGCTACCTCCAGCTGCTGTGTTGCTGCAGAAATAAGCTGGTCATCTCTGAGGGCA
AGGCTGAGGACAAAGATGTGAAAGGGCGAGCCCTACAGCCAAATCCAAATCTCCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >MR228800 protein sequence
 Red=Cloning site Green=Tags(s)

MADAEKNAVAEKNNAVATKEVLAEEAAIILEPVGLQEEAELPAKIMEEFMRNSRKKDKLLCSQLQVVFNLQ
 TFLAQEDTEQSPDALASEDASRQKATETKEQWKDMKATYMDHVDVIKCALSEALPQVKEAHRKYTELQKA
 FEQLEAKKRVL EEKQLAQKQWVLQQRLLQNLTKISAEVKRRRKRALKLDGSHQELETLKQQAGQEQEK
 LQRNQSYLQLLCSLQNKLVISEGKAEDKDVKGRALTAKSKSP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001293684

ORF Size: 759 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_001293684.1](#), [NP_001280613.1](#)

RefSeq Size: 1816 bp

RefSeq ORF: 759 bp

Locus ID: 52696

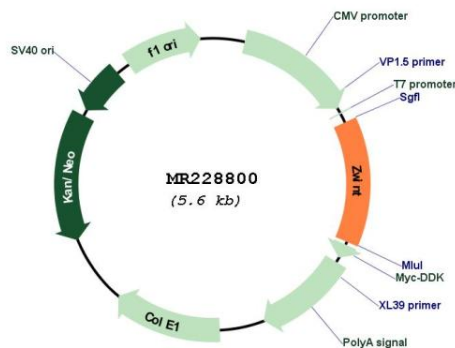
UniProt ID: [Q9CQU5](#)

Cytogenetics: 10 37.15 cM

MW: 28.7 kDa

Gene Summary: Part of the MIS12 complex, which is required for kinetochore formation and spindle checkpoint activity. Required to target ZW10 to the kinetochore at prometaphase (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR228800