

Product datasheet for **MG203218**

Zwint (NM_025635) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zwint (NM_025635) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Zwint
Synonyms:	2010007E07Rik; 2600001N01Rik; D10Ert4749e; Zwint-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG203218 representing NM_025635 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGCGGACGCGGAGAAAAACGCTGTTGCGGAGAAAAACAACGCTGTTGCGACGAAAGAGGTTCTGGCTG
AGGCAGCAGCCATTCTAGAACCTGTAGGCTTGAGGAAGAAGCAGAGCTGCCTGCCAAGATCATGGAGGA
GTTTATGAGGAACGCGGAAGAAAGACAACTGCTCTGTAGCCAGCTTCAAGTAGTGAACCTTTACAG
ACTTTTCTGGCTCAGGAGGACACTGAGCAGAGCCCTGATGCTCTGGCTTCTGAAGATGCCAGTCGGCAAA
AGGCAACTGAACTAAGGAGCAGTGGAAGGACATGAAGGCCACATACATGGATCACGTGGATGTCATAAA
ATGTGCCCTGTCTGAGGCCTTACCCAGGTTAAAGAGGCTCACAGGAAGTACACAGAGCTTCAGAAGGCT
TTTGAGCAACTCGAGGCTAAGAAGCGAGTCCTTGAGGAGAACTTCAGCTGGCTCAGAAGCAGTGGGTAC
TGCAACAGAAGCGTTTGCAGAACCTGACAAAGATTTCTGCAGAGGTCAAGAGGCGCCGGAAGAGGGCTCT
GGAGAAGCTTGACGGATCCCATCAGGAACCTGGAACCTTGAAGCAGCAAGCGGGGAGGAACAGGAGAAG
CTGCAGAGGAACAGAGCTACCTCCAGCTGCTGTGTTGCTGCAGAATAAGCTGGTCATCTCTGAGGCA
AGGCTGAGGACAAAGATGTGAAGGGCGAGCCCTTACAGCCAAATCCAAATCTCCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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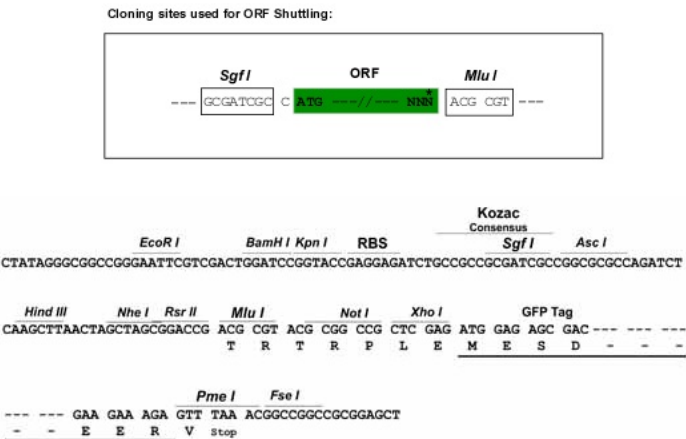
Protein Sequence: >MG203218 representing NM_025635
 Red=Cloning site Green=Tags(s)

MADAEKNAVAEKNNNAVATKEVLAEAAAILEPVGLQEEAELPAKIMEEFMRNSRKDKLLCSQLQVVNFLQ
 TFLAQEDTEQSPDALASEDASRQKATETKEQWKDMKATYMDHVDVIKCALSEALPQVKEAHRKYTELQKA
 FEQLEAKKRVLEEKLQLAQKQWVLQQKRLQNLTKISAEVKRRRKRALEKLDGSHQELETLKQQAGQEQEK
 LQRNQSYLQLLCSLQNKLVISEGKAEDKDVKGRLTAKSKSP

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_025635

ORF Size: 756 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_025635.4](#)

RefSeq Size: 2677 bp

RefSeq ORF: 759 bp

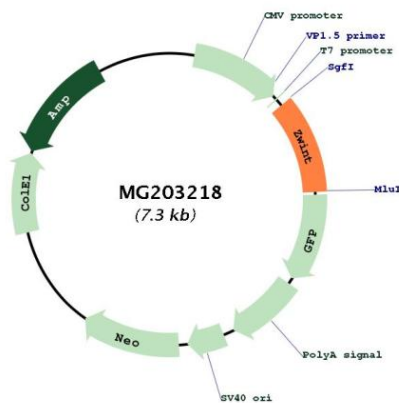
Locus ID: 52696

UniProt ID: [Q9CQU5](#)

Cytogenetics: 10 37.15 cM

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 MG203218