

Product datasheet for **RN207355**

Zw10 (NM_001024801) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zw10 (NM_001024801) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Zw10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF:

>RN207355 representing NM_001024801

Red=Cloning site Blue=ORF Orange=Stop codon

 TTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

 ATGGCTTCTTTCTGTGACGGAAGTCTTGCCCACTCGGGGAGCCTGGAGAAGGAGGATCTGGGCACCAGGA
 TCAGCCGTCTGACCCGGCGGGTGGAGGAGATCAAGGGCGAGGTGTGCAATATGATCAGCAAGAAGTACAG
 TGAATTCCTGCCTACCATGCAGAGCGCACAGGCCCTCGTACCCAGGTGGACACTCTATCCAATGACATC
 GACCAGCTGAAATCCAGGATAGAGACTGAGGTCTGTGCGGATCTTCACATATCAACTGTTGAGTTTACGA
 ACTTGAAGCAGCGGTGGAAAGAGACTCTGTCTCTAAATTTGCTCAAACAGCTGCAAGAGTTTCTTCTC
 TGCTATTGAAGAGTATAACAGTGCAGTGGCAGAGAAGAAATACATCCCTGCTGCTCGGCTCTGGAGGAG
 GCACAGGAATGCTTGAAGTTATTTAAATCAAAAAATGCTTTGACTTAAAAATGTTGAAGTCTCTCAGCA
 TGGAGCTCAGGTACAGAAGCAGAACATCTTTACCACCTGGGAGAAGACTGGCAGAAGCTGTTGTATG
 GAAGTTCCCGCCATCAAAGATACCAGCAGCTTAGAATCTTGTCTACAAACAGAACTTCATTATGCACT
 GAGCAGCCCGAGAAGGAGATGACTCCTCTGCCATCCATCAGCTCTGTCTCTTGGCGTTTTCTATTCTTG
 GAGAATTACCCACCAAGCTGAAGTCATTTGGTCAGATGCTGCTGAAGTATATACTTAAGCCTCTGGTGAC
 TTGCCCGTCGCTCCATGCTGTGATTGAAAGGCAGCCGAATTCAGTTAGCATTTGTTTCCAGTCTCTGGCG
 ACGGACTCAGAACATCCACCACCACCCGAAGCTTTTGCAAAGTCCAGTTGGTATTGGAAGTGCTCCAGA
 AACAGCTTCTAGATTTGCCTCTTGATGCTGACCTAGAAATTTGAAAGTCCCTGAGATCGTGTGGCTGA
 GATGCTTGGTGAGGTGATCTGGGAGGACCTGTCCGATTGCCTCATCAGAACTGCTTGGTTTACTCTATT
 CCCACCAATAGCAGCAAGCTACAGCAATATGAGGAGATCATACAGTCCACAGAGGAATTTGAAAGTCCC
 TAAAAGAGATGAGATTTTAAAAGGAGATACTACTGACTTGCTGAAATATGCTCGCAATATCAATTCTCA
 TTTTGCTAATAAGAAGTGCCAGGATGTGATTGTGGCGGCTAGACATCTAATGACCTCCGAAATTCACAAC
 ACCGTGAAGATTGGTCTGATTGTGAGGAAACCTACCAGACTTGCCAGTCTGATGCCGACCACAGGC
 TACAAGTGCAGGTGTGCAAAGTGCAAGTTCACCGATGCCGGAAGTCTAGAGCCGAGACTTCGCTGGACCC
 TCGGTCTTCTCTTTACCCACGTGCCGATCAGTGAGGCTGTGAAGAAGTTAATGGAGCTCGCTTATCAG
 ACTTTACTTGAGGCAACAACAAGTAGCGACCAATGTGCTGTCCAGCTTTTTTACTCAGTGAGAAATATCT
 TCCATTTGTTCCATGATGTGGTGCCACATACCACAAGGAGAACCTTCAGAAGCTTCCCCAGTTGGCTGC
 CATTACCATAACAAGTGCATGTATATTGCTCACCCTTGCTGACCTCGGCCATCAGTTCAGATCGCGG
 CTCACCCCATCTTTGTGATGGCAGCAGCACTTTTGTGGACCTTGACCTGGCTTCAGAAGACTTGGGA
 CGGAGTGTTTTTTGGCCAGATGCGGACCCAGAAAGGAGAACTTCTGGAGAGATTATCAAGTGCTAGAAG
 CTTTGCAAACATGGATGATGAAGAGAATTATTCTGCAGCGAGCAAGGCAGTGAGGCAGGTGCTGCACCAG
 CTGAAGAGACTTGGGATCGTGTGGCAGGATGTCCTGCCGGTGAACATATACTGCAAGGCTATGGGGACCT
 TGCTGAACACCGTGATTGCTGAGATGATTGGCAGGATCACTGCTCTAGAGGACATCTCGACTGAAGATGG
 CGATAGATTGTATCCCTGTGCAAAACAGTGATGGATGAAGGGCCACAAGTATTTGCACCTCTGTCTGAT
 GAAAACAAAAACAAGAAATACCAAGAAGAGGTTCCGGTCTATGTGTCCAAGTGGATGCCTTTCAAAGAAC
 TCATGATAATGCTACAAGCTAGCTTGCAAGAAATCGGAGATCGGTGGGCAGATGGAAAAGGGCCCTGGC
 AACTGCATTCCCTTCAGCGAAGTAAAAGCTTTAATTCGTGCCTTGTTCAGAACACAGAAAGAAGAGCG
 GCTGCCCTTGCTAAGATTAAATAG

 ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_001024801

Insert Size:

2334 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_001024801.1, NP_001019972.1</u>
RefSeq Size:	2454 bp
RefSeq ORF:	2334 bp
Locus ID:	363059
UniProt ID:	<u>Q4V8C2</u>
Cytogenetics:	8q23
Gene Summary:	Essential component of the mitotic checkpoint, which prevents cells from prematurely exiting mitosis. Required for the assembly of the dynein-dynactin and MAD1-MAD2 complexes onto kinetochores. Its function related to the spindle assembly machinery is proposed to depend on its association in the mitotic RZZ complex. Involved in regulation of membrane traffic between the Golgi and the endoplasmic reticulum (ER); the function is proposed to depend on its association in the interphase NRZ complex which is believed to play a role in SNARE assembly at the ER (By similarity).[UniProtKB/Swiss-Prot Function]