

Product datasheet for **MR209182**

Zwilch (BC027435) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zwilch (BC027435) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Zwilch
Synonyms:	2310031L18Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209182 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTGGTCGGAATGAACCGCGCGGAGGAGTTTTATGCTCGTCTCCGGCAGGAATTTAATGAAGAGA
 AGAAAGGAGCCTCTAAAGACCCATTTCATCTATGAGGCTGATGTACAAGTGCAGTTGATCAGCAAAGGCCA
 ACCAAGTCTTCTGAAAATATTCTAAATGAAAATGACTCAGTGTTTCTCGTGAAAAAAGTGGTTTTGGAG
 AAGGAAGAAACAAGTCAAGTTGAAGAACTGCAGTCTGAAGAACTGCTATTTCTGATCTCTCTGCTGGT
 AAAATATTAGGCCACTGGCCTTACCTGTTGGGAGAGCAAGGCAGTTAATTGGGCTCTATACCATGGCTCA
 CAATCCTAATATGACTCATCTGAAGATTAAGCAGCCAGTGACAGCCCTTCTCTCTTTGGGTGAGATGT
 GACGGTTCAGATCCTGAAGTACCTGTTGGCTAGGAGCTGAGCTTATCACAACAAATGACATCATTGCAG
 GCGTTATCCTGTATGTGCTCACTGTAAGCTGATAAAAAATTACTCTGAAGATCTGGAAAAATTTAAAAAC
 TTCACACAAGAAAAGACATCACGTGCTGCTGTGACAGCCAGAGGCTTTGCCAGTATGAGCTCTTTAAG
 TCTGACGACTTGGATGACTGTTGCCCATCACAACTACAGTACGCTGGACCTTTCTCGGAGCCCTG
 TGGATGAGATGCTCAAACCCCTCCCCTGTCTTCAACTGCAGCTCTGAATATCAGAGTACAATCAGGAGA
 GTCCAGAGGTTGTCTGAGTCATCTTACAGAGAACTGAAATTTCTCCTGTTTTAGCTGATGGCATCAGG
 ACTGGTGAACGAATGGCTTGAGCCTCTGAAACAAAATCTGCTCTTGAATTTGTTTCAGGAATTTCTGA
 ATGACTTAAATAAACTGGATGAATTTGATGATTCTACAAAAAAGATAAACAAGAGGAGCAGTGAACCA
 TGACGCAGCTGCAGTTGTGAGTCCATGCTTCTACCCTGCGGGGGGATCTCGATTTTGTGAACAGCTT
 TGGTGTAGAATGAGCAGCAGTGTGGTTTCTCAAGACTTGGTGAAGTGTTCACACTCATCTGCAGA
 GTCTTACGCGTGGTATATACAGCCATGGTTGCACAGTGAAGTAAACAGTTTACTAAGTAACTCATTCA
 TCAGTCTTACCATGGAGCTATGGACAGTGTCCCTCTCTGGAAGTACCCCACTGCAGATGCTTTTGGAA
 ATTTGGTTTGGACAACTGAAGAAAGATTATATCAGCTTTTTTGTGAGTCAAGAACTTGCATCTTTGAATC
 ATTTGGAATACTTCAATTTCTCCCTCAGTATCGACACAGGAACAGGTTTGCCTGTTTCAGAACTCCATCA
 TATTCTTGAAATCTTAGTCATCTGCATGCTTTTTCATTAACCTCAGCATGAGCTTCTCTTCTTTAACA
 CAATCCTGCATAAAAATATTATAACAAAATCCTCTTGATGAGCAACACATTTTTCAGTTGCCAGTCAGAC
 CAGCTGCTGTCAAGAATTTGATCAAAGTGAAGCCGAGAAATGGAGAGTGGAGCTCAGCAATAGTCA
 GAAGAGGGTGAACAGTGTGGCAACTGAGTGACAGCTCCCTGTAGACCATTCCAGTTTCCACAGGCCCT
 GAGTTTCTGAGCTGACTGAATGGTAGTCTGGAAGAAAGGACAGCCTTCGTTAACATGCTTACCTGCA
 GCCAGGTGCACCTCAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209182 protein sequence
 Red=Cloning site Green=Tags(s)

MWSRMNRAAEFYARLRQEFNEEKKGASKDPFIYEADVQVQLISKGQPSLLKTI LNENDSVFLVEKVVLE
 KEETSQVEELQSEETAISDL SAGENIRPLALPVGRARQL IGLYTMAHNP NMTHLIKQPVTALPPLWVRC
 DGSDPEGTCWLGAE LITNDIIAGVILYVLTCKADKNYSEDLENLKTSHKKRHHVSAVTARGFAQYELFK
 SDDLDDTVAPSQT TTVL DL SWSPVDEMLQTPPLSSTAALNIRVQSGESRGCLSHLHRELKFLVLADGIR
 TGVTEWLEPLETKSALEFVQEF LNDLNKLDEFDDSTKKDKQKEAVNHDAAAVVRSMMLTVRGLDFAEQL
 WCRMSSSVSYQDLVKCF TLILQSLQRGDIQPWLHSGSNSLLSKLIHQSYHGAMDSVPLSGTTPLQMLLE
 IGLDKLKKDYISFFVQS ELASLNHLEYFISPSVSTQE QVCRVQKLHHILEILVICMLFIKQHELLFSLT
 QSCIKYKQNPLDEQHIFQLPVRPAAVKNLYQSEKPKWRVVELSNSQKRVKTVWQLSDSSPVDHSSFHRP
 EFPELTLNGSLEERTAFVNMLTCSQVHFK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: BC027435

ORF Size: 1767 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: [BC027435](#), [AAH27435](#)

RefSeq Size: 2745 bp

RefSeq ORF: 1769 bp

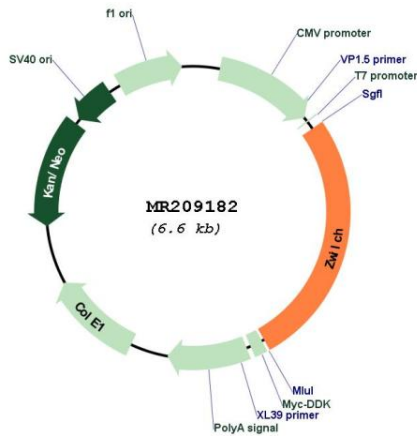
Locus ID: 68014

Cytogenetics: 9 C

MW: 66.8 kDa

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 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209182