

Product datasheet for **MG216108**

Zwilch (NM_026507) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Zwilch
Synonyms:	2310031L18Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence: >MG216108 representing NM_026507
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGACGGAGGCCACGGCGGTATGTGGTCGCGAATGAACCGCGGGCGGAGGAGTTTTATGCTCGTCTCC
 GGCAGGAATTAATGAAGAGAAGAAAGGAGCCTCTAAAGACCCATTTCATCTATGAGGCTGATGTACAAGT
 GCAGTTGATCAGCAAGGCCAACCAAGTCTTCTGAAAATATTCTAAATGAAAATGACTCAGTGTCTCTC
 GTGGAAAAAGTGGTTTTGGAGAAGGAAGAAACAAGTCAAGTTGAAGAACTGCAGTCTGAAGAACTGCTA
 TTTCTGATCTCTCTGCTGGTGAATAATTAGGCCACTGGCCTTACCTGTTGGGAGAGCAAGGCAGTTAAT
 TGGGCTCTATACCATGGCTCACAATCCTAATATGACTCATCTGAAGATTAAAGCAGCCAGTGACAGCCCTT
 CCTCTCTTTGGGTGAGATGTGACGGTTCAGATCCTGAAGGTACCTGTTGGCTAGGAGCTGAGCTTATCA
 CAACAAATGACATCATTGCAGGCGTTATCCTGTATGTGCTCACTTGTAAAGCTGATAAAAAATTAAGTCTGA
 AGATCTGGAAAAATTAACAACTTACACAAAGAAAAGACATCACGTGTCTGCTGTGACAGCCAGAGGCTTT
 GCCCAGTATGAGCTCTTAAAGTCTGACGACTTGGATGACACTGTTGCCCATCACAACTACAGTACAGC
 TGGACCTTCTGGAGCCCTGTGGATGAGATGCTCAAACCCCTCCCCTGTCTTCAACTGCAGCTCTGAA
 TATCAGAGTACAATCAGGAGAGTCCAGAGGTTGTCTGAGTCATCTTACAGAGAAGTAAAATTTCTCCTT
 GTTTTAGCTGATGGCATCAGGACTGGTGAATGAATGGCTTGAGCCTCGGAAACAAAATCTGCTCTTG
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 GAGCTTCTCTCTCTTTAACACAATCCTGCATAAAAATATTATAAAACAAAATCCTCTTGTGATGAGCAACACA
 TTTTTAGTTGCCAGTCAAGCAGCTGCTCAAGAATTTGTATCAAAGTGAAGAGCCGAGAAAATGGAG
 AGTGGAGCTCAGCAATAGTCAGAAGAGGGTGAACAGTGTGGCAACTGAGTGACAGCTCCCTGTAGAC
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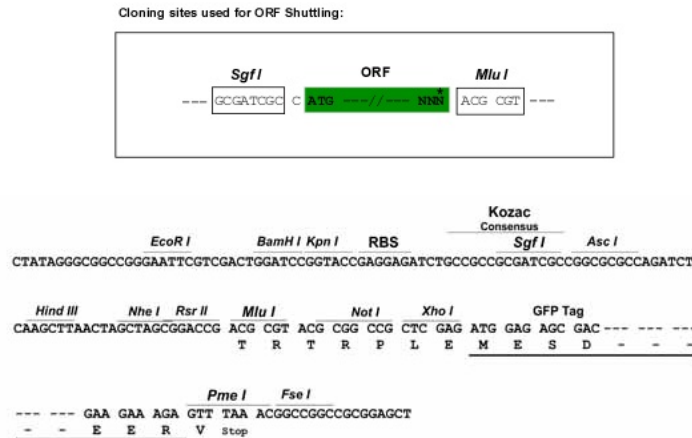
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG216108 representing NM_026507
 Red=Cloning site Green=Tags(s)

MDGGHGMWSRMNRAEEFYARLRQEFNEEKKGASKDPFIYEADVQVQLISKQPSLLKTI LNENDSVFL
 VEKVVLEKEETSQVEELQSEETAISDL SAGENIRPLALPVGRARQLIGLYTMAHNPNMTHLKI KQPVTAL
 PPLWVRCDGSDPEGTCWLGAEIITNDIIAGVILYVL TCKADKNYSEDL ENLKTSHKKRHVSAVARGF
 AQYELFKSDDLDDTVAPSQTTVTLDL SWSPVDEMLQTPPLSSTAALNIRVQSGESRGCLSHLHRELKFL
 VLADGIRTGVTEWLEPLETKSALEFVQEF LNLDLNLKDEFDDSTKKDKQKEAVNHDAAAVVRSMML TVRGD
 LDFAEQLWCRMSSSVSYQDLVKCF TLILQSLQRGDIQPWLHSGSNSLLSKL IHQSYHGAMDSVPLSGTT
 PLQMLLEIGLDKLLKDYISFFVSQELASLNHLEYFISPSVSTQE QVCRVQKLHHILEILVICMLFIKPKH
 ELLFSLTQSCIKYKQNP LDEQHIFQLPVRPAAVKNLYQSEKPKWRVELSNSQKRVKTVWQLSDSSPVD
 HSSFHRPEFPELTLNGSLEERTAFVNMLTCSQVHFK

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:


ACCN: NM_026507

ORF Size: 1788 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_026507.4](#), [NP_080783.3](#)

RefSeq Size: 2784 bp

RefSeq ORF: 1791 bp

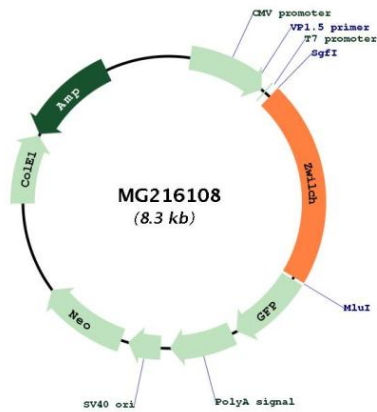
Locus ID: 68014

UniProt ID: [Q8R060](#)

Cytogenetics: 9 C

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 MG216108