

Product datasheet for **MG209182**

Zwilch (BC027435) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zwilch (BC027435) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Zwilch
Synonyms:	2310031L18Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209182 representing BC027435
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGTGGTCGCGAATGAACCGCGCGGAGGAGTTTTATGCTCGTCTCCGGCAGGAATTTAATGAAGAGA
 AGAAAGGAGCCTCTAAAGACCCATTTCATCTATGAGGCTGATGTACAAGTGCAGTTGATCAGCAAAGGCCA
 ACCAAGCTTCTGAAAATATTCTAAATGAAAATGACTCAGTGTTTCTCGTGAAAAAGTGGTTTTGGAG
 AAGGAAGAAACAAGTCAAGTTGAAGAACTGCAGTCTGAAGAACTGCTATTTCTGATCTCTCTGCTGGT
 AAAATATTAGGCCACTGGCCTTACCTGTTGGGAGAGCAAGGCAGTTAATTGGGCTCTATACCATGGCTCA
 CAATCCTAATATGACTCATCTGAAGATTAAGCAGCCAGTGACAGCCCTTCTCTCTTTGGGTGAGATGT
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 GAGTTTCTGAGCTGACACTGAATGGTAGTCTGGAAGAAAGGACAGCCTTCGTTAACATGCTTACCTGCA
 GCCAGGTGCATTC AAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

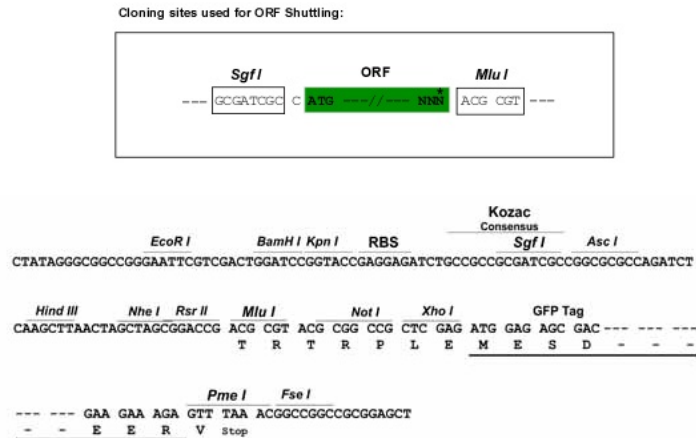
>MG209182 representing BC027435
 Red=Cloning site Green=Tags(s)

MWSRMNRAAEFYARLRQEFNEEKKGASKDPFIYEADVQVQLISKQPSLLKTI LNENDSVFLVEKVVLE
 KEETSQVEELQSEETAISDL SAGENIRPLALPVGRARQLIGLYTMAHNP NMTHLKIKQPVTALPPLWVRC
 DGSDPEGTCWLGAELITTNDIIAGVILYVLTCKADKNYSEDLENLKTSHKKRHHVSAVTARGFAQYELFK
 SDDLDDTVAPSQTTVTLDLSWSPVDEMLQTPPLSSTAALNIRVQSGESRGCLSHLHRELKFLVLADGIR
 TGVTEWLEPLETKSALEFVQEFNLNKLDEFDDSTKKDKQKEAVNHDA AAVVRSMLLTVRGDLDFAEQL
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 IGLDKLKKDYISFFVSQELASLNHLEYFISPSVSTQE QVCRVQKLHHILEILVICMLFIKPQHELLFSLT
 QSCIKYKQNPLDEQHIFQLPVRPA AVKNLYQSEKPQKWRVELSNSQKRVKTVWQLSDSSPVDHSSFHRP
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TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

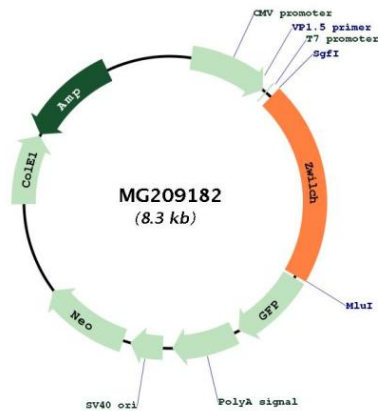
Cloning Scheme:


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

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 MG209182