

Product datasheet for **RC238453**

ZWILCH (NM_001287822) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZWILCH (NM_001287822) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZWILCH
Synonyms:	hZwilch; KNTC1AP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC238453 representing NM_001287822
 Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGGCCGGAATTCTGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGGCGC
 GCCC

ATGGCTCACAACTCTAATATGACCCATTTGAAGATTAATCTGCCAGTTACTGCCCTTCTCCCTTTGGG
 TAAGATGTGACAGTTCAGATCCTGAAGGTACTTGTGGCTAGGAGCTGAGCTTATCACAACAAACACAG
 CATTACAGGAATTGTCTTATATGTGGTCAGTTGTAAAGCTGATAAAATATTCTGTAAATCTTGAAAC
 CTAATAATTTACACAAGAAAAGACATCACTTGTCTACTGTAACTCCAAAGGCTTTGCCAGTATGAGC
 TCTTTAAGTCTCTGCCTTGGATGATACAATCACAGCATCACAACCTGCGATCGCTTTGGATATTTCTG
 GAGTCTGTGGATGAGATTCTTCAAATCCCTCCACTCTCTTCACTGCAACTCTGAATATTAAGTGGA
 TCAGGAGAGCCCAGAGGTCTTTGAATCATCTCTACAGAGAACTGAAATTTCTTCTGTTTGGCTGATG
 GTTTGAGGACTGGTGTCACTGAATGGCTCGAGCCCTGGAAGCAAATCTGCTGTTGAATTGTTACAGG
 ATTTCTGAATGACTTAAATAAGCTGGATGGATTTGGTGATTCTACAAAAAAGACACTGAGGTTGAGACC
 TTGAAGCATGACACTGCTGCAGTCGATCGTTCCGTCAAGCGTCTTTCAAAGTTCGGAGTGATCTTGATT
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 TCTTTTCTTTAACACAGATCTGCATAAAGTATTACAAACAAATCCTCTTGATGAGCAACACATTTTCA
 GCTGCCAGTCAGACCAACTGCTGTAAAGAAGTTATATCAAAGTGAGAAGCCACAGAAATGGAGAGTGGA
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 CATGGTTACCTGCAGCCAGGTGCATTTCAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238453 representing NM_001287822
 Red=Cloning site Green=Tags(s)

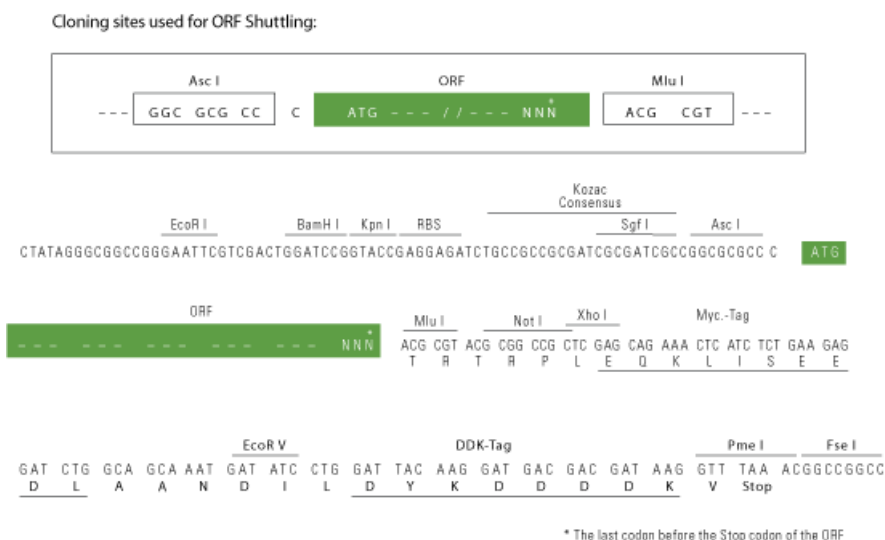
MAHNPNMTHLKINLPVTALPPLWVRCDSSDPEGTCWLGAELITTNNSITGIVLYVVSCKADKNYSVNLEN
 LKNLHKRRHHLSTVTSKGFAQYELFKSSALDDITASQTAIALDISWSPVDEILQIPPLSSTATLNIKVE
 SGEPRGPLNHL YRELKFLVLADGLRTGVTEWLEPLEAKSAVELVQEFLNDLNKLDGFGDSTKKDTEVET
 LKHDTAAVDRSVKRLFKVRSDLDFAEQLWCKMSSSVISYQDLVKCFLLIIQSLQRGDIQPWLHSGSNSLL
 SKLIHQSYHGTMDTVSLSGTIPVQMLLEIGLDKLLKDYISFFIGQELASLNHLEYFIAPSVDIQEQVYRV
 QKLHHILEILVSCMPFIKSQHELLFSLTQICIKYKQNPLDEQHIFQLPVRPTAVKNLYQSEKPKQWRVE
 IYSGQKKIKTVWQLSDSSPIDHLNFHKPDFSELTLNGSLEERIFFTNMVTCSQVHFK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Ascl-MluI

Cloning Scheme:



ACCN: NM 001287822

ORF Size: 1431 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_001287822.1](#), [NP_001274751.1](#)

RefSeq Size: 3203 bp

RefSeq ORF: 1434 bp

Locus ID: 55055

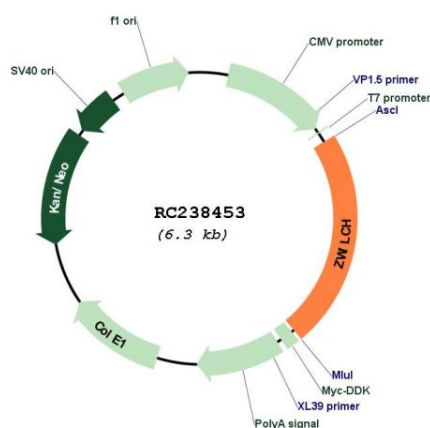
UniProt ID: [Q9H900](#)

Cytogenetics: 15q22.31

MW: 54.7 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 (PubMed:15824131).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC238453