

Product datasheet for **SC113827**

ZWILCH (NM_017975) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	ZWILCH
Synonyms:	hZwilch; KNTC1AP
Mammalian Cell	None
Selection:	
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



Fully Sequenced ORF:

>OriGene ORF within SC113827 sequence for NM_017975 edited (data generated by NextGen Sequencing)

ATGTGGGAGCGGCTGAAGTTCGCGCAGCAGAGGACTTTTATTCTCGTCTCCTTCAGAAATTT
AATGAAGAAAAGAAAGGAATCCGTAAAGACCCATTTCTCTATGAGGCTGATGTCCAAGTG
CAGTTGATCAGCAAAGGCCAACCAACCCTTTGAAAAATATTCTAAATGAAATGACATA
GTATTCATAGTGGAAAAAGTGCCTTTAGAAAAGGAAGAAACAAGTCATATTGAAGAACTT
CAATCTGAAGAACTGCCATATCTGATTTCTCTACTGGCGAAAATGTTGGACCACTTGCT
TTACCAGTTGGGAAGGCAAGGCAGTTAATTGGACTTTACACCATGGCTCACAATCCTAAT
ATGACCCATTTGAAGATTAATCTGCCAGTTACTGCCCTTCTCCCTTTGGGTAAGATGT
GACAGTTGAGATCCTGAAGGTAATGTTGGCTAGGAGCTGAGCTTATCACAACAAACAAC
AGCATTACAGGAATTGTCTTATATGTGGTCAGTTGTAAGCTGATAAAAAATTATTCTGTA
AATCTTGAACCACTAAAAAATTTACACAAGAAAAGACATCACTTGTCTACTGTAACATCC
AAAGGCTTTGCCAGTATGAGCTCTTTAAGTCTCTGCCTTGGATGATACAATCACAGCA
TCACAACTGCGATCGCTTTGGATATTTCTGGAGTCTGTGGATGAGATTCTTCAATC
CCTCCACTCTCTTCAACTGCAACTCTGAATATTAAGTGAATCAGGAGAGCCAGAGGT
CCTTTGAATCATCTCTACAGAGAACTGAAATTTCTTCTGTTTGGCTGATGGTTGAGG
ACTGGTGTCACTGAATGGCTCGAGCCCTGGAAGCAAAATCTGCTGTTGAACCTGTTTCA
GAATTTCTGAATGACTTAAATAAGCTGGATGGATTGGTGATTCTACAAAAAAGACACT
GAGGTTGAGACCTTGAAGCATGACACTGCTGCAGTCGATCGTTCCGTCAAGCGTCTTTTC
AAAGTTGCGAGTGATCTTGATTTTGTGAGCAACTGTGGTGCAAAATGAGCAGTAGTGTG
ATTTACATCAAGACTTGGTGAAGTGTTCACATTGATCATCCAGAGTCTACAACGTGGT
GATATACAGCCATGGCTCCATAGTGAAGTAACAGTTTACTAAGTAAGCTCATTATCAG
TCTTATCATGGAACCATGGACACAGTTTCTCTCAGTGGGACTATTCCAGTTCAAATGCTT
TTGGAATTTGGTTTGGACAACTAAAGAAAGATTATATCAGTTTTTTCATAGGTCAGGAA
CTTGATCTTTGAATCATTGGAATACTTCATTGCTCCATCAGTAGATATACAAGAACAG
GTTTATCGTGTCCAAAACTCCACCATATTCTAGAAATATTAGTCAGTTGCATGCCTTTC
ATTAATCTCAACATGAACCTCTCTTTCTTTAACACAGATCTGCATAAAGTATTACAAA
CAAAATCCTCTTGATGAGCAACACATTTTTCAGCTGCCAGTCAGACCAACTGCTGTAAAG
AACTTATATCAAAGTGAGAAGCCACAGAAATGGAGAGTGGAAATATATAGTGGTCAAAAG
AAGATTAAGACAGTTTGGCAACTGAGTGACAGCTCACCCATAGACCATCTGAATTTTAC
AAACCTGATTTTTCGAATTAACACTAAACGGTAGCCTGGAAGAAAGGATATTCTTTACT
AACATGGTTACCTGCAGCCAGGTGCATTTCAAGTGA

Clone variation with respect to NM_017975.3

**5' Read Nucleotide
Sequence:**

>OriGene 5' read for NM_017975 unedited

TACCCGACTTCTGTGGGGCGGAAAACCATTCGGCACGAGGGGGATGTGGGATCGGCTGAA
CTGCGCAGCAGAGGACTCTTATTCTCGTCTCCTTCACCTTTAGAAAAGGAAGAAACAAGT
CATATTGAAAACTTCAATCTGAAGAACTGCCATATCTGATTTCTCTACTGGCGAAAAAT
GTTGGACCACTTGCTTTACCATTCGTGATTGCAAGGCAGTTAATTGGACTTTACACCATG
GCTCACAATCCTAATATGACCCATTTGAAGATTAATCTGCCAGTTACTGCCCTTCTCTCC
CTTTGGGTAAGATGTGACAGTTCAGATCCTGAAGGTACTTGTGGCTAGGAGCTGAGCTT
ATCACAACAAACAACAGCATTACAGGAATTGTCTTATATGTGGTCAGTTGTAAGCTGAT
AAAAATATTCTGTAAATCTTGAACCTAAAAATTTACACAAGAAAAGACATCACTTG
TCTACTGTAACATCCAAAGGCTTTGCCAGTATGAGCTCTTTAAGTCTCTGCCTTGGAT
GATACAATCACAGCATCACAACCTGCGATCGCTTTGGATATTTCTGGAGTCTGTGGAT
GAGATTCTCANATCCCTCCACTCTCTCAACTGCAACTCTGAATATTAAGTGAATCA
GGAGAGCCAGAGGTCTTTTATCATCTCTACAGAGAACTGANATTTCTTCTGTTTTG
GCTGATGGTTTGGAGACTGGTGTCACTGAATGCCTCGAGCCCTGGAAGCAAACTCTGCTG
TTGAATTTGTTTCAAGTTCTGATGACTTAAATAGCTGAATGGATTGTGATTCTACAAAA
AGAACTGAGGTGAACTTGAGCATGACCTGCTGCAGTCACGTT

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_017975 unedited CTCTCTTTATGTGGTAGCAANATGGAAGTGCAGACCAATCTTACCAAACTAGCTATT TTTACAGGCCAATAAAGCAACATGCAATCCCCCTCAACAAATTTAATAATCAGGCAATA CTAAGAAATGATATTCCATTAACTAAAAATAACAAGTTGAAATGTGGTACAGAATTCA CTGATGAGCCTGTGAACTCCACGTGAGGATGTCCAGTGCCTTATTATCTCAGTAACCAG AGTACCAGCACACAAGATAAAAGTGGGTATTACCTAAGTGGCCACTATTTTATTAATAA TGCACATAACATATGCTTATCATTAACTCTTAAAAAGATTATTATTTAACTATACAAGAA CTACCATACAACATTTCAACATACAAGTTCCTATACTTCTTAAGATACACAATAATATTT TGAAAGATTGGAATGTTTCCAAGGACTTTCTATCACAAATCCCCCCAGTAAAAATT ATAGGAACTGTGGAATATGGCTGCTAATATTCTGAGATGAATTTAGAAAGTATAAGTATT GAGAGATGGACTTTATTATAGCACCTGTAGAAGAACCAAAATTCAGGCATTTATCCCATAT TCTCTGAAATATTTACAAAGCTCTTATAACATTTTCAAATAACATTTAATTTACTAAGTT CTATTTTCATGGCAAATAAGAATCAGAAAATTTGAGGATGCTATTTTTTAAAGTTTCCCAA TACAGTTAAAGCTTTTGGGATTAAGCTGTATTTACTAAACGATCCCTGTCTCATTTGTG GCGCCCGTTCTCTTTGTCATCCCGAGCCCTTGCTCAGCACCATGCAATGGTACTGAAATC GTTGGACCCACTGGCTGCGTCTCTGTGACTCAAAGTCTGTCTATTAAAGCTCCTCCTGA GAAGCATAGCTAAACAGGATTTCATATCTGGAGTCTCCAAGAAAACTCCAGTTCCTTCT CCCTTTTCTGGTTGAGGGT
Restriction Sites:	NotI-NotI
ACCN:	NM_017975
Insert Size:	2930 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_017975.1</u> , <u>NP_060445.1</u>
RefSeq Size:	1670 bp
RefSeq ORF:	405 bp
Locus ID:	55055

UniProt ID: [Q9H900](#)

Cytogenetics: 15q22.31

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]
Transcript Variant: This variant (1) encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.