

Product datasheet for **SC318018**

ZWILCH (NM_017975) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Tag: Tag Free

Symbol: ZWILCH

Synonyms: hZwilch; KNTC1AP

Vector: pCMV6 series

Fully Sequenced ORF: >NCBI ORF sequence for NM_017975, the custom clone sequence may differ by one or more nucleotides

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ATGTGGGAGCGGCTGAAGTCCGTCAGCAGAGGACTTTTATTCTCGTCTCCTTCAGAAATTT
AATGAAGAAAAGAAAGGAATCCGTAAGACCCATTTCTCTATGAGGCTGATGTCCAAGTG
CAGTTGATCAGCAAAGGCCAACCAACCCTTTGAAAAATATTCTAAATGAAATGACATA
GTATTCATAGTGGAAAAAGTGCCTTTAGAAAAGGAAGAAACAAGTCATATTGAAGAACTT
CAATCTGAAGAACTGCCATATCTGATTTCTCTACTGGCGAAAATGTTGGACCACTTGCT
TTACCAAGTTGGGAAGGCAAGGCAGTTAATTGGACTTTACACCATGGCTCACAATCCTAAT
ATGACCCATTTGAAGATTAATCTGCCAGTTACTGCCCTTCCTCCCTTTGGGTAAAGTGT
GACAGTTGAGATCCTGAAGGTAAGTGTGGCTAGGAGCTGAGCTTATCACAACAACAAC
AGCATTACAGGAATTGTCTTATATGTGGTCAGTTGTAAGCTGATAAAAAATTATTCTGTA
AATCTTGAAAAACCTAAAAAATTTACACAAGAAAAGACATCACTTGTCTACTGTAACATCC
AAAGGCTTTGCCAGTATGAGCTCTTTAAGTCCTCTGCCTTGGATGATACAATCACAGCA
TCACAACTGCGATCGCTTTGGATATTTCTGGAGTCTGTGGATGAGATTCTTCAAATC
CCTCCACTCTCTTCAACTGCAACTCTGAATATTAAGTGAATCAGGAGAGCCAGAGGT
CCTTTGAATCATCTCTACAGAGAACTGAAATTTCTTCTGTTTGGCTGATGGTTTGAGG
ACTGGTGCTCACTGAATGGCTCGAGCCCTGGAAGCAAAATCTGCTGTTGAAGTGTTCAG
GAATTTCTGAATGACTTAAATAAGCTGGATGGATTGGTGATTCTACAAAAAAGACACT
GAGGTTGAGACCTTGAAGCATGACACTGCTGCAGTCGATCGTTCCGTCAGCGCTTTTC
AAAGTTCGGAGTGATCTTGATTTTGCTGAGCAACTGTGGTGCAAAATGAGCAGTAGTGTG
ATTTACATCAAGACTTGGTGAAGTGTTCACATTGATCATCCAGAGTCTACAACGTGGT
GATATACAGCCATGGCTCCATAGTGAAGTAACAGTTTACTAAGTAAGCTCATTATCAG
TCTTATCATGGAACCATGGACACAGTTTCTCTCAGTGGGACTATTCCAGTTCAAATGCTT
TTGGAATTTGGTTTGGACAACTAAAGAAAGATTATATCAGTTTTTTCATAGGTCAGGAA
CTTGATCTTTGAATCATTTGGAATACTTCATTGCTCCATCAGTAGATATACAAGAACAG
GTTTATCGTGTCCAAAACTCCACCATATTTCTAGAAATATTAGTCAGTTGCATGCCTTTC
ATTAATCTCAACATGAAGTCTCTTTCTTTAACACAGATCTGCATAAAGTATTACAAA
CAAAATCCTCTTGATGAGCAACACATTTTTCAGCTGCCAGTCAGACCAACTGCTGTAAG
AACTTATATCAAAGTGAGAAGCCACAGAAATGGAGAGTGGAAATATATAGTGGTCAAAAG
AAGATTAAGACAGTTTGGCAACTGAGTGACAGCTCACCCATAGACCATCTGAATTTTAC
AAACCTGATTTTTCGGAATTAACACTAAACGGTAGCCTGGAAGAAAGGATATTCTTTACT
AACATGGTTACCTGCAGCCAGGTGCATTTCAAG
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Restriction Sites:	Please inquire
ACCN:	NM_017975
Insert Size:	3204 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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_017975.3</u> , <u>NP_060445.3</u>
RefSeq Size:	3204 bp
RefSeq ORF:	3204 bp
Locus ID:	55055
UniProt ID:	<u>Q9H900</u>
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.