

Product datasheet for MC225227

Kntc1 (NM_001042421) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kntc1 (NM_001042421) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kntc1
Synonyms:	D330012D13; jgl
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC225227 representing NM_001042421 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTGGAACAATATTGAGCTGCTACAAGCGATGACACTGGAAGTGGATGCCTGAGTGTGGCTCAAGAA
AAGAAAACGTGACTGCACTGTACCAAGCCGACTTGCTTGGGAAGATCTCCTCTGAGAAGACCTCACTGAG
TCCGAAGATCCAAGCATTGAGCTTAAGCCATGGGTTTATAATCGTTGCAGACCAGTCAGTGATATTGCTT
GACAGTATATGCAGATCACTCCAGTTGTTTCTTATCTTCGATACTGACGTGGATGTGGTCCGCCTGTGTC
AAGAAGGAAAGTTTCTTTGTGGGGGAGAGAAGCGGCAACTTCCACCTTATCTACGTACATCGAAGCA
AACGCTGTTACCAAGGCTTTTGTGGAGAAAGCTTTGGACGAGAGTCAGCGAACGTACCGGAATCTCATT
ATTGAGAAAGATGGTTCAAATGAAGGTACCTATTATATGTTGCTTCTAACGAACAATGGATTTTTTATA
TTACAAACCTCCAGCTTTCACAAATTGAACAGGCCATTGAGAACACGGACTTGGATTGAGCAAGAAAGTT
ACAAGGACAATTCAAATGTAGTTTTATTTCTACTGAAAATTACCACAGTTGTCTCAGTCTGTGGCATCT
CAATCTGGAACATTTGCAAGTAAACTTCTGTGATAATTGGGGAAACCGTAGTTGTGCATTCTCAAAAT
GGGAACCCGATTCTACCAAGAAAGAAATGTCTCTTAAGAACTTTGTGGGCACAGACATTATTAAGAGTGC
AAAGTCATTTTCAGCTGATCGACAACCTGCTTTTGTGCTGGATACTGATAATGTGCTGAGCTTGTGGGAT
GCTTACACTCTCACTCCTGTGTGGAAGTGGCCCTCTCTCCCGTAGAGCAGTTTGTCTCACGACAGAAG
CGGATTCTCCCTCATCTGTTACCTGGCAAGGAATTACAAATCTCAAATTAGTCACCCTGACAGCAACAGC
GAAGGAGAAGATGAGAAGCCTCATCTTACTCTGCTTCGATGGAAACACTGTACTCTTTGGAAGTA
TCTAGTGTCTTCTTTAGTTCAAACAGGAATCAGCACGGACACTATATATCTTCTGGAAGGAATTCACA
AAAATGATCCTAACCTATGTGAAGACTCTGTGCTGACTTAGTACTTAGGTACCTCACAGAGGTGTTACC
AGAAAACAGACTGAGCCGTTACTTCACAAGCACAGATTTGCCGAAGCCGAGAGCTTTGCCATTCAGTTC
GGACTGGATGTTGAGCTGTTTATAAGGTCAAATCAAATGATATGTTGGAGAAGCTGGCTTTGATTTCCCT
CGGACAAGAGTGAGCAGTCCAAATGGCAGCAACTTGATAGATGAAGCTAAAGAAAACCTATGCAAAATCCA
GGACGATGACTTCGTGGTGAATTTCTGCCTCAAGGCCAATGGGTAACTATGAAACCACCCAGGAAATG
CTCAGTTATGCCAAAACAGGCTCATGAAGAAAGAAGACAGAGCTCTACCTGCCTCTTCTGATGCCTTCA



TGGAGGTGCTAAAAGCTCATGCAAAGTTAACTACATTTTATGGAGCATTGGACCAGAAAAATTCAGTGG
TAGCTCTTGGATTGAGTTCCTGAATAACGAAGATGACCTCAGGGATGTTTTTTGCGAGCTAAGTGAAGGA
AACTTCGCTTGTGCTCAGTATCTTTGGCTTAGACATCGGGCTGACTTTGAAAGCAAGTTTGACGTGAAAA
TGCTGGAGAATTTGCTGAATTCATATCTACACAATCCCTTGGAAAACCTTTGTTCTGGTTTAAAAA
TGAAGTGATCCGTTTGTGAGGAGGATTGTGCCGAAGGACAAAACATTTGCAAAAATGGCTAGAACA
GCATCAAGGAACCTAGAGTTAACTGATAAGGCAAACTGCCAGAAAATGGACTTCAGCTGGCAGAGGTGT
TCTTCACTGCAGAAAAACAGACCGGTTTGGATTTCGCATCTTCTTGGCACTGGATTTCCTGGATTATCA
AAACACAGAGGAAGTCCGCCAGTTACGGACACTGGTGAGCAAGTTGCGGGAGCTGATCATTCTGCATAGG
AAATACAACCTGCAAGCTGGCCCTCTCGGACTTTGAGAAGGAAAATGCCACCACTGTGGTGTCCGCATGT
TCGACAGGGTCTCGGCCCCAGAGCTGATCCCTCGGTCTTAGAGAAGTCTGTGAGAGTTTACATTCGCGA
ACAGAATCTGCAAGAGGAGGAGCTGCTGTTGCTCTATATAGAGGATTTACTGAAGAGGTGTAGCTCAAAG
TCAATGACTCTCTTCGACACAGCGTGGGAAGCAAAGGCCATGGCCGTGATAAGATGCTTGTCTGACACAG
ATCTCATCTTTGATGCTGTGCTGAAGATAATGTACAAGGCGGTGGTTCCCTGGAGTGCAGCCGTGGAGCA
GCTGGTGAACAGCACCTGGAAATGGACCACCCCAAAGTCAAGTTATTGCAGGAAAGCTACAACTGATG
GAGATGAAGAACTTTTTCGAGGGTATGGGATAAGAGAGGTGAATCTCCTGAACAAGGAAATAATGAGAG
TGATCCGATACATTCTAAAGCAGGACATCCCGTCTTCTTAGAAGATGCTCTGAAGGTGGCCAGGGGTA
CAGGCTGTCTGATGACGAAATCTACAGCCTGAGAAATCATCGATCTGATTGACAGGGAGCAGGGGGGAGAT
TGCCCTCTGCTACTGAAGTCTCTGCCTGCCGTGAAGCCGAGAAGACTGCAGAAAAGGGTTATCATCTGGG
CTCGACTGGCACTGCAGGAGGAGCCTGACGGCTCTGAGGAGGACAAGGCCGGAGAATACTGTGGCGAA
GACATCGGTGGATATTCTCAAGATCCTGTGTGATATTGAAAAGACAATCTGCAGAAGAAGGATGAATCT
GAAGAATCCTGAAGCGATTTCAAATGGTTGCTAGTTTACAGGAGAACTTTGAGGTCTTCCCTCCATTTG
AAGACTACAGCAACACCCGCTTGGTAGCTGGCCTTCGAGAACAGTATATTAAGGCACAGGAAGCTGCACA
GGCTGAGCACAAACACAGGGGACCCCGGGCCACCCCGGCTAGGGGGACACACCTGAGCATCAAGTCA
AAGCTGCACCGACAGGCACTGGCCCTGCAGGTGTCTGAACAGGAGCTGGAGGCAGAGCTGACCTTGAGAG
CCTTAAAGGACGGGAAGGTGGTGGCCGCTGAGCAAATGCAGAGATTTACTTAAGCATTACTGCAATGC
CGACACTGGGAGGTTACTGTTTGTGGTGTGTGAGAAGCTCTGTCAGATGTTGGTGTGACGATGTCCCAATG
GTGGCCCCAGGAGGACTCAGCCTTCTTCTGAGATCCATGACCTCGCATGCCACGCTGTCAACCATCTGCA
GTCCAGATATTTGCTGGATGTTTTAGAATAAGTAAATACACTTTAACCCTGTGGAGCTTTGCAGACA
ATGCCAGATGGATGACTGTGGAATGCTGATGAAGGCCGCTCTTGGAACTCACAAGGATCCCTATGAAGAG
TGGTCTTTAGTGACTTCTCAGTGAAGATGGAATTGTTCTCGAGTCCCAGGTGGTGTGCTGCTGATCT
ATGAATTGATCTCATCAGTGATGCCCCGTCAGAAAGCAAAGACATCCTTTGGATTCTATAAGTTTGGC
ATACTGCTCCACTAGTGAAGGAGAAAACCGTATTCTCCCTCTTGTAAAGCTCCATCTCTGCTGCTCCGG
AGCCTCCAGGAATGTAGTCAGTGGGAGCTAGCCCTGAGGTTCTGTGGTGGGCTCCTTTGGTACCTGCCTGC
AGCACTCTATGTCAAACGTCATGAGTATCAGCTTGAGTAAACAGTTACTTGGGAAGAACACATTGGCGAA
CTCCAGGCATATCATTATGGAATTGAAAGAGAAGTCCATCACATTTATCAGAGAAAATGCTACGACACTC
CTGCATAAAGTGTTTAACTGTCCGGTGGTGGATCTGGACCTCGCCTTGGCTTACTGCACTCTTTACCTC
AAAAGGATGTATTCGACAACCTCTGGAAGTTCATAGATAAAGCGTGGCAGAATTACGACAAAATCTGGC
ATTATCTTTGGTGGGCTCTCAGCTGGCAAATCTACCAGGATATTGAAACAGGACTTTGGTCCACGAG
CTCAGTATCGATGCCAAGTGGGTATTCTGCTTGGTAACTTGGTATTTCTTTTTCAGCCTGCTTTTAGAG
AAAATTTTCTCACCAAGAAAGACCTTATCAAAGCTCTTGTGAATAACATAGACATGGACACCAGCCTCAT
TCTGGAGTATTGCAGCACATTTAGCTGGACTCTGACGCTGCCCTTCGGCTGTTCAATTGAAACTCTGCTC
CGCAACACTAGCAGCCAGAGCCAGGAGATGCTGCCCCGAGTCCACAAAGCATCAGCATTCCAACTCC
TGGCGAAAGCCACTGAGCTGGTCCCTTTACTGAAGAACACAAAGGATCTGGTGTGATGATCTTAGTGAGAT
CCTCTATAAGCTGGACCCATATGATTATGAAATGATTGATGTTGTCTGAAAAGTTTTAGAACAAAGCTAAC
GAAAAGATAACCAGTGTGAACATCAATCAGGCGCTGAATCTTCTGAGACACTTGAAGTCATACAGAAGGA
TCTCCCGCCAGTGGACCAGGAATACCAGTACGCGCTGGAGCACATGATCACTCTGCCACCGGCTGCTCA
CACTAGACTGCCCTTTCACCTAATACTGTTTGGCACAGCACAGAATCTTGGAAAATTTCTCTCCTCAGAG
CTCAGCGAAGAGTCGCTGCCAACCTGCTTAAATCGCGAAGCTGATGAAGTTCTCCCTAGATACTCTCT
ATGTGTCTACCGCAAACACTTGTTTGAAAAAACCTGAAGCCAAAGCTCCTGAAGTCGGCACAAGCCAG
GTCCTCCACCCTGATGAGCAAGGAAGTGGATAAGCTCATGCAGACGCTGGAGTCGTACCTCCTGTCCATC
GTCAACCCCGAGTGGGCTGTCCGATTGCCATCAGCCTCACCCAGGAAGTCCCAGAAGGCCCTTCAAGA
TGTCTAGTTTGAAGTTCTGCCTGTATTTAGCTGAGAGATGGCTACAAAACATCCCACCTCAGGATGAGAC

GTGTGAAAAGGCCAAAGCCTTGCAGAAGAAGCTCTGCCTCCAGGTCCGGCTCTCAGGAACGGAAGCCGTG
CTCATAGCCCACAAGCTGAACGATCAGGAATATTTAAGAGTGATAGGGAAGCCAGCGCACCTCATCGTGA
GCCTCTACGAACATCCCAGCATAAGCGAAAGGCTTTGTACCACATCTGGCAAAGATTATCCCGATATCCA
TACAGCCGCTAAAGAAATAGCCGAAGTCAATGAAGTTAATTTGGAAAAATCTGGGACATGTTGTTGGAG
AAATGGCTGTGCCCTCAACGGTGCCAGTGAGAAAGCATCGGAGTCTTTGAGCTGGAAGAGGATGAAG
TGCTGCATAGAGTCGTGTATCTCCTCCAGGCTCGTCTGTTGATTATTGTTGAGAAATGCTGTTTGTATT
TGCCACTTCAGCTACAAGTACACTGGGCATGCGCCAGCTAACGTTTGGCCAAAAGCAGCAGCTCTGCAG
TGTCTCCTCTATTTGGCTGACAAGGAAACAATTGAATCTCTCTTCAAAAAGCCATTAAAGAAATGAAAT
CCTATCTGAAATGTATACTTCTCCTGGCATCATTTGAGACATTGAATATTTCCCATCACATATGAATTATT
CTGCAACAGTCCCAAAGAAGGCATGATTAAGGGCTTGTGGAAGAACCACAGCCACGAACCTATGGCAGTA
CGATTGGTTGCAGAGCTTTGCTTAGAATACAAAATCTATGACCTGCAGCTTTGGAATGGGCTCTTGAGA
AGCTTCTGGGCTTCAACATGATTCTTACCTGAGGAAAGTGTATCTGCATTTCTAGCATCCATTCGTT
ATGGCAGTGGCCTACTCAGCAAAGCGTGGCAGCGGTGATCCAGATCCCTCTGCTCTCGGCTTCTGT
CCTTTAAGACCCAGTCAGTTAGCAGACTGCTGTGACAGTCTCGTCGCCATCCTTGAATGTCCAGTTTCAG
ATGACCTGGACATGATGGGAGTGCCTAAGCAGTACGTCAGTTAGACCTTCCCGCTTTTGTCTGACCTG
CCTGACGCTCATGCCCCACTCTGAAAAAGACACCAGCAGATCAAGAATTTCTGAATTCCTGTGATGCT
CGGATCATTTTACAGCAGATAGAAGAACATATGAACACTGGCCAGCTAGCAGGGTTTTACATCAGATTG
GAAGTCTGGTTCTGAATCATGTTGTAATAAGAAGGAATTTGGGATTTGGCAAAGACAAAGTATTTTCA
GTTGTTGAAATGCCACGTGATAAACACCGGCAACGTCAGTGAATGGTAAACTATTTGGCAAATGACTTC
AGTGTAGATGAAGCATCAGCGTTGATAAATGAGTATTCAAAGCATTGTGGGAAGCCTGTGCCAGCAGATG
CAGCTCCCTGTGAGATCCTGCAGACATTTCTTGGTGGATCATAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001042421

Insert Size: 6624 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.

RefSeq: [NM_001042421.1](#), [NP_001035886.1](#)

RefSeq Size: 6961 bp

RefSeq ORF: 6624 bp

Locus ID: 208628

UniProt ID: [Q8C3Y4](#)

Cytogenetics: 5 F

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]