

Product datasheet for MC224488

Tex14 (NM_031386) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Tex14 (NM_031386) Mouse Untagged Clone
 Tag: Tag Free
 Symbol: Tex14
 Synonyms: C85585
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 Fully Sequenced ORF: >MC224488 representing NM_031386
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGGATCGCC

ATGTCTCGGGGGCTCCTTTCCAGTCCCTTGCCCGTGTCTGCTGGGGACCTTCACAGATGACTCCCTGG
 AGGCTCAGCTTACGAATACGCCAAGCAAGGGAAGTGCCTGAAGCTCAAGAAGATTCTTAAGAAGGGAGT
 CTGTGTCGATGCAGTTAACTCAGGGCCAGTCAGCGCTCTTTGTTGCAGCATTACTGGGCCATGTGAAA
 TTAGTGGATGTTCTGGTGGATTATGGATCAGATCCAAATCACCGCTGCTTTGACGGGAGCACTCCTGTCC
 ATGCAGCAGCCTTTTCAGGCAACCAAGTGGATCCTCAGTAAACTGCTGACTGCAGGGGGTGACCTGCGACT
 CCATGATGAGAAGGGTCGGAATCCACAGGCCTGGGCCTTGACAGCAGGGAAGGATCGTAGCACTCAGATG
 GTGGAGTTCATGCAACGTTGACTTCACATATGAAGGCTATCATCCAGGGCTTCTCCTATGACCTTCTGA
 AGAAGATAGACTCTCCTCAGCGACTCATCGGCAGCCACCCTGGTTTGGTAGCCTCATTGAGGGAAGCCC
 AAATAGTTCTCCCAACCGACAGCTTAACTGGAATCATTTCTGCCAAAATATCTACAGCTTTGGCTTT
 GGAAGTTTTATCTCACCTCAGGGATGCAGCTTACTTACCCAGGATCTCTTCCAGTCATTGGAGAGAAGG
 AAGTGGTCCAGGCTGATGATGAGCCACCTTCTTTCTTTCAGTGGCCCTACATGGTCATGACTAACCT
 CGTGTGGAATAGGAGCAGAGTCACAGTAAAGGAGCTGAACCTTCCACCGTCCCACTGTAGCAGGCTG
 AGGTTGGCCGACTTGCTGATTGCTGAGCAGGAGCACAGCAGCAACCTGCGGCATCCTAACCTGCTGCAAC
 TGATGGCTGTATGTTGTCGCGGACCTGGAGAAAATTCGCTGGTTTACGAGCGTATCACAGTCGGCAC
 ACTGTTCAAGTGTCTCCATGAACGAAGTCCCAGTCCCAGTGTGCACATGGAGGTGATTGTGCACCTG
 TTGCTCCAGGTTGCTGATGCCTTGATATACCTGCATTCCCGGGGTTTCCACCGCTCCCTCAGCTCCT
 ACGCTGTCCACATCGTCTCTGCAGGAGAAGCAAGGCTGACTAACCTGGAATACCTGACGGAAGCCAGGA
 CAGTGGTGCACACAGGAACGTGACTCGAATGCCCTCCCACCCAGCTGTACAACGGGCTGCACCAGAA
 GTGGTCTTGCAGAAGGCACCCACGGTGAAGTCAGACATATACAGCTTTTCCGTGATCATAAAGAGATCT
 TAACAGACAGTATACCCTGGAATGGCTTGATGGCTCACTTGTTAAAGAAACCATAGCCTTGGGAAATTA
 TTTAGAAGCTGATGTCAGGCTTCCGGAACCTTACTATGATATTGTTAAGTCAGGAATCCATGCCAAGCAG
 AAGAACCAGCAATGAACCTTCAAGATATTCGTTATTTCTGAAGAATGACTTAAAGGAATTTATTGGAG



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CTCAGAAAACCTCAGCCAACCGAGAGCCCCAGAGGGCAGAGCTATGAACCCCATCCTGATGTTAATATCTG
 CCTAGGCTAACTTCAGAATATCAAAGGACCCTCCAGACTTGGACATCAAGGAACTAAAGGAAATGGGT
 AGTCAGCCCCATTACCTACAGATCACTCCTTTCTCACTGTAACCAACTAGCTCCTCAGACCCTAG
 ATTCAAGTCTGTGAGCCAGAAACCTGACAATGCAAAATGTTCTTCTCCTCTGTCATGTCTGGCAGA
 AGAGGTGAGGAGCCCACTGCAAGTCAGGACAGCCTCTGCAGCTTTGAAATCAATGAGATCTACTCAGGC
 TGCTTGACACTGGGAACGACAAGGAGGAAGAGTGTCTGGGACTGCTGCTTACCTGAGGGGATAGAC
 CAAACCAGGGAGATGAGCTGCCATCCCTGGAAGAAGAGCTCGATAAGATGGAGAGAGAATTGCACGTGTTT
 TTGTGAAGAGGACAAAAGCATTTCAGAAGTTGACACAGACCTTCTTTTTGAGGATGATGACTGGCAAAGT
 GATTCTCTTGTTCACTCAACCTGCCGAACCAACCAGAGAAGCCAAGGGCAAACGAGCAGCTGGTCCA
 AGACTGATGAGTATGTCAGTAAGTGTGTCTGAATCTGAAGATTTACAGGTGATGATGCAGCAGAGCGC
 TGAGTGGCTGAGGAAGCTTGAGCAGGAGGTAGAGGAGCTCGAGTGGGCACAGAAGGAGCTGGACAGTCAG
 TGCAGCAGTTTGCGGATGCTTCATTAAGTTTGCAAATGCCAAGTTCAGCCGGCTGTAGGCCCTCCAT
 CTTTGGCCTATCTTCTCCTGTTATGCAATTACCAGGGCTCAAGCAGCCTGAAAATGGTGGCACCTGGTT
 AACCTAGCAAGTCTCCAGGAAATGAGAGAGAGTTCCAAGAGGGACATTTTAGCAAAAACCTGAGAAA
 CTAAGTGCTGTGGCTGGAAGCCTTTACACAAGTGTCTGAAGAAAGCAGAGGGGACTGCTCAGAGCTAA
 ACAATCAGCTGCCGACTTTCGTGGTCTGGGAAGCAGAGCACAGGTGAGCAGTTACCATCACTCAAGA
 AGCAAGGGAGAGTTTGGAAAAAATACAAACAAAATAGTAGGAGTATGGCGTCTGTGCTTCTGAAATC
 TATGCTACTAAGTCAAGAAATAATGAGGATAATGGAGAGGCACACTTGAAATGGAGATTGGCAGTAAAAG
 AAATGGCAGAGAAAGCAGTTTCCGGACAGCTCTTATTACCTCCTTGGAATCCTCAGAGTAGTGCCCTTT
 TGAGAGTAAGGTTGAAAATGAGAGCACTCCTTTGCCACGGCCCCCAATTAGAGGTCTGAGAGCACAGAA
 TGGCAGCACATTTAGAATACCAGAGGGAAAATGATGAGCCAAAGGAAATACGAAGTTTGGCAAATGG
 ACAACAGTGAAGTGTGACAAGAACAAGCACAGCAGATGGACAGGCCTCCAGCGCTTCACTGGTATTAGATA
 CCCATTCTCAGAAACCAGGACAGCCAGAGCAGAATGAAGCCTCTCAAGCAAGCTGTGACACGTCTGTG
 GGCACTGAGAAGTCTACAGCACCTCAAGTCCCATAGGAGACGACTTTGAAAGATTCCAAGATTCTTTTG
 CCCAACGTCAAGGCTATGTTGAAGAAAATTTCCAAATAAGAGAAAATTTTGAAGAAGTGTGAGATTTT
 GACCAAGCCTCAGTTTCAAGCTATTCAATGTGCTGAAGACAAACAAGACGAAACATTAGGGGAGAGGCCA
 AAGGAACTGAAAGAGAAAAACACATCACTGACAGACATTCAAGACTTGTCCAGCATCACCTATGATCAAG
 ACGGCTATTTTAAAGAAACCTCATAAAAAACCCAAATTAACACAGCACCAACTAGTGCCAGTACCCC
 GCTAAGCCAGAGTCGATTTCTCAGCTGCTAGTCACTATGAAGACTGCCTTGAAAATACCACATTTTCA
 GTTAAAAGAGGATCTACATTTTGTGGAATGGCCAAGAAGCTATGAGAACTTTGTCTGCCAAATTTACAA
 CTGTCCGAGAGAGCTAAGAGCCTGGAATCACTTCTCGTCTTCTCTAAAAGCCTACCTGCCAAGCTGAC
 TGACTCCAAGAGATTGTGTATGTTGAGTGAGACTGGCTCTTCTAACGTTTCTGCGCATTTGTAACATCA
 ACTCATGCTACCAAGAGGAAGAGCCTACCCAGAGAAGTGGCAGAAGCCACCTCTCAACAGCATCTTGATG
 AGCTTCCACCACCAGCTCAGGAGCTACTTGATGAAATTGAGCAACTGAAGCAGCAGCAGGTCTCATCCCT
 GGCGTCACATGAGAACACGGCAGTGATCTGAGTGTCACTAACAAGGATAAGAAGCATTTGGAAGAACA
 GAAACCAACAGTAGTAAAGACAGCAGTTTTCTTCCAGCAGAGAAATTCAGGATCTGGAAGATACAGAGA
 GAGCTCATTCTTCTTTGATGAGGACCTGGAAGATTCTGCAGTCACCTGAGGAGAACACGGCACTGCT
 GGACCCTACCAAGGGCTCTACAAGGGAGAAAAAACAAGATCAAGACGTTGTTGAGCAGAAGAGAAAA
 AAGAAAGAAAGCATCAAGCCAGAGAGAAGGGAGTCAGACAGCTCCCTAGGGACCTTGAAGAAGATGAAC
 TAAAACCCTGTTTTTGAAGCAGCTGGGTTGGTCCGAACCTTCCAGGATAATTTGTGCTGGATCAGAGCGA
 CTTGTCAGACTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
 ACCN: NM_031386
 Insert Size: 4353 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:	<ol style="list-style-type: none">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:	<u>NM_031386.2</u> , <u>NP_113563.2</u>
RefSeq Size:	4776 bp
RefSeq ORF:	4353 bp
Locus ID:	83560
UniProt ID:	<u>Q7M6U3</u>
Cytogenetics:	11 C
Gene Summary:	<p>Required both for the formation of intercellular bridges during meiosis and for kinetochore-microtubule attachment during mitosis. Intercellular bridges are evolutionarily conserved structures that connect differentiating germ cells and are required for spermatogenesis and male fertility. Acts by promoting the conversion of midbodies into intercellular bridges via its interaction with CEP55: interaction with CEP55 inhibits the interaction between CEP55 and PDCD6IP/ALIX and TSG101, blocking cell abscission and leading to transform midbodies into intercellular bridges. Also plays a role during mitosis: recruited to kinetochores by PLK1 during early mitosis and regulates the maturation of the outer kinetochores and microtubule attachment. Has no protein kinase activity in vitro.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) uses a different first exon which results in the use of a downstream start codon, compared to variant 1. The resulting protein (isoform b) has a shorter N-terminus when it is compared to isoform a.</p>