

Product datasheet for MC206422

Tex19 (BC053492) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tex19 (BC053492) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tex19
Synonyms:	2410081M02Rik; mTex19.1; Tex19; Tex19a
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC053492

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>BC053492
TGGCTTTGGGGTCCATTAGCTGGCACCTGGGCGCTCAGTCAGGGAGCTCCCCATATATTGGAGCAAGTGT
GAAGCTGAAGAAGCTTCTGGAAGCTCAAGCCTTCTACTTCTCCAGAGAGCCTCTGTGGTCTGTGACC
TGACCTCCTCAGTCCATCGAGCAAGTCTGAATCTGTGTGTCGCTTAGCTGCAGACAGACTTCTTGACCA
TGTGTCCCCCAGTCAGCGTTCGCCATGGGGCCAGGGGCATGTCCTGCCTCTATGGGGCATGGCTGTACCA
TCTTGTCCATGGGGAACAGACGAAGATCTGCTTTGCTTGCTTCAAGGCAGCTTCTTATTGAATAAACTC
TACCTGGAGATGGGAGACTGGCAAGAGGAAGAAGAGGAGGAAGAGGAAGAGGAAGATGCCGATCCTCGG
AATACTTGTGAGAGTCAGAGTCAGATTCTGAGCAGGAGCCAGGGCCTGAGCAGGATGCATGGCGGGGATT
GGGGTCCCTTTATGTGCCACAGAGTGTCTGAAGGGTCTGGGGTCTGTCGCAACCCCTGTGTGGACA
CAGGGCATACTATTCTCCATTTTGTGCCACTGAGCTCTTCCCTCAGGAAGCTGTACCCTGGATCTGG
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GCTCATCCCTCCTGACTTGGTGGGATATTTTGTGATGTGATGCCATCTCCTGGGCAACCTGTGTTGTTG
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TCTGTTGGATGGCGTCCAATCTAGGTGCCACCTGCTGTCAATGCGTGTCCGCTGGGTGCGTAAGGACTCA
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CATTAACATGCCAGAGACCCGGAGCTGGGAGCCAGGAGAGAGGCTGTTTATCACAGATGCTACTATTTGT
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AGATACCTGATTTTAGGGTTCAGTGTGTTTGTGTTGTTTACTTTGTTGTTTACTGTTGTTGTTGTTGTT
TGAGGGCTTTTGTGAATAAAGTTGGTGTGTTTAAATTTTAAAAAAAAAAAAAAAAAAAA

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Restriction Sites:	EcoRI-NotI
ACCN:	BC053492
Insert Size:	1059 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:	BC053492 , AAH53492
RefSeq Size:	1735 bp
RefSeq ORF:	1059 bp
Locus ID:	73679
Cytogenetics:	11 E2
Gene Summary:	Required during spermatogenesis and placenta development, participating in the repression of retrotransposable elements and preventing their mobilization (PubMed:18802469, PubMed:21103378, PubMed:23364048, PubMed:23674551, PubMed:28254886). With its paralog, Tex19.2, collaborates with the Piwi-interacting RNA (piRNA) pathway, which mediates the repression of transposable elements during meiosis by forming complexes composed of piRNAs and Piwi proteins. Interacts with Piwi proteins and directly binds piRNAs, a class of 24 to 30 nucleotide RNAs that are generated by a Dicer-independent mechanism and are primarily derived from transposons and other repeated sequence elements (PubMed:28254886). Also during spermatogenesis, promotes, with UBR2, SPO11-dependent meiotic recombination (PubMed:28708824). Interacts with LINE-1 retrotransposon encoded LIRE1, stimulates LIRE1 polyubiquitination, mediated by UBR2, and degradation, inhibiting LINE-1 retransposon mobilization (PubMed:28806172).[UniProtKB/Swiss-Prot Function]