

Product datasheet for **RN206124**

Tex19.1 (NM_001017482) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tex19.1 (NM_001017482) Rat Untagged Clone
Tag: Tag Free
Symbol: Tex19.1
Synonyms: Tex19; Tex19a
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN206124 representing NM_001017482
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTGTCCCCAGTCAGTGTTCCGCATGGGGCCAGGGGTATGTCCTGCCTCTATGGAGCCTGGCTGTACC
AGCTTGTCCATGGAGAACAATGAAAATGTGCTTTGCTTGCTTCAAGGCAGCTTTCCTGTTGAATAAATT
CTACCTGGAGATGGGATACTGGGAACAGGAAGAACTTTCAGAGGAAGAGGAGGAAGAGGAAGTGTGGGAT
GCCGAGCCCATGGAACACTTGTTCAGAGTCAGAGTCCTTGGAGTCAGATTCTAAGCAGGATGCAGGGTCTG
AGCAGGATGCAGGGTCTGAGCCGAATACAAGGTCTGAGCAGGATGCATGGCAGGGTGTGGGGTCCCTTTA
TGTGCCTCAGAGTGTCTCTGAATATGGAGGGCCTGGGGCCCTGGTACCAACCCCTTCATGGACACAGTGG
GTAGTATTCTCCATTTCTGTGCCACTGAGCTTTTGCCTCAGGAAGCCGTACCCCTGGATCTGGGCCCTG
AGGATGTTGAGTGGACCCAGGCCCTTCCCTGGAGATTAGATGTCCTTTTCCCTGTTTCGACCCGGCTCAT
CCCTCCTCTGTCTTGGTGGGATATTTAGATGTGATGCCATCTCTGGGCAACCTGTATTGTTGGAGTTG
AGATCCCTCTGGCCTTTGGACCAGTCAGTAGCACAAACCTGGTTGCAAGACCAGAAGTTTGCCTCTTGT
TGGATAGCATACACTTTATGTGCCACCTGCTGTCAATGCATGCTGCTGGGCTGTAAAGACCCAGGTCCA
GCACTGGCAGGTGTTGCTGAACCTGGTGAAGTGTGGGTGGCCATTTGAAGAGATATTATTTAGACCG
CGTGGCCTGTACCCTGGAGCCTGAGCATCCTGAAGAGTTCGGATTTGGGAATGGAGTTAGTCCCTGCTG
CTTTCTACCTGCGGAAGAAAGGCTTCTGGGTAGGCTCCTTCTTGCCTGGAAACAGTAGCATACCAGAGAC
CTGGAGCTGGGATCCAGGGGAGAGGCTGTTTATCACAGATGCTACTATTTGTGCTACTAACTACCACTTT
GCTCGATCCTTCTCCCT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001017482



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Insert Size:	1071 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_001017482.1</u> , <u>NP_001017482.1</u>
RefSeq Size:	1755 bp
RefSeq ORF:	1071 bp
Locus ID:	498033
UniProt ID:	<u>Q5XHY3</u>
Cytogenetics:	10q32.3
Gene Summary:	Required during spermatogenesis and placenta development, participating in the repression of retrotransposable elements and prevent their mobilization. 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. Also during spermatogenesis, promotes, with UBR2, SPO11-dependent recombination foci to accumulate and drive robust homologous chromosome synapsis. Interacts with LINE-1 retrotransposon encoded LIRE1, stimulates LIRE1 polyubiquitination, mediated by UBR2, and degradation, inhibiting LINE-1 retransposon mobilization.[UniProtKB/Swiss-Prot Function]