

Product datasheet for **RR206124**

Tex19.1 (NM_001017482) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tex19.1 (NM_001017482) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Tex19.1
Synonyms: Tex19; Tex19a
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR206124 representing NM_001017482
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTGTCCCCAGTCAGTGTTCCGCATGGGGCCAGGGGTATGTCCTGCCTCTATGGAGCCTGGCTGTACC
AGCTTGTCCATGGAGAACAATGAAAATGTGCTTTGCTTGCTTCAAGGCAGCTTTCCTGTTGAATAAATT
CTACCTGGAGATGGGATACTGGGAACAGGAAGAACTTTCAGAGGAAGAGGAGGAAGAGGAAGTGTGGGAT
GCCGAGCCATGGAACACTTGTCAAGTCAAGTCTTGGAGTCAGATTCTAAGCAGGATGCAGGGTCTG
AGCAGGATGCAGGGTCTGAGCCGAATACAAGGTCTGAGCAGGATGCATGGCAGGGTGTGGGGTCCCTTTA
TGTGCCTCAGAGTGTCTGAATATGGAGGGCCTGGGGCCTGGTACCAACCCCTTCATGGACACAGTGG
GTAGTATTCTCCATTTCTGTGCCACTGAGCTTTTGCCTCAGGAAGCCGTACCCCTGGATCTGGGCCCTG
AGGATGTTGAGTGGACCCAGGCCCTCCCTGGAGATTAGATGTCCTTTCCCTGTTCCGACCCGGCTCAT
CCCTCCTCTGTCTTGGTGGGATATTTAGATGTGATGCCATCTCTGGGCAACCTGTATTGTTGGAGTTG
AGATCCCTCTGGCCTTTGGACCAGTCAGTAGCACAACTGGTTGCAAGACCAGAAGTTTGCCTCTTGT
TGGATAGCATACACTTTATGTGCCACTGCTGTCAATGCATGCTGCTGGGCTGTAAAGACCCAGGTCCA
GCACTGGCAGGTGTTGCTGAACCTGGTGAAGTGTGGGTGGCCATTTGAAGAGAGTATTATTTAGACCG
CGTGGCCTGTACCCTGGAGCCTGAGCATCCTGAAGAGTTCGGATTTGGGAATGGAGTTAGTCCCTGCTG
CTTTCTACCTGCGGAAGAAAGGCTTCTGGGTAGGCTCCTTCTTGCCTGGAACAGTAGCATACCAGAGAC
CTGGAGCTGGGATCCAGGGGAGAGGCTGTTTATCACAGATGCTACTATTTGTGCTACTAACTACCACTTT
GCTCGATCCTTCTCCCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR206124 representing NM_001017482
 Red=Cloning site Green=Tags(s)

MCPPVSVRHGARGMSCLYGAWLYQLVHGEQMKMCFACFKAAFLLNKFYLEMGYWEQEELSEEEEEVWD
 AEPMEHLSESELESQDAGSEQDAGSEPNTRESDAWQGVGSLYVPSVSEYGGPGALVPTPSWTQW
 VVFSISVPTPELLPQEAVPLDLGPEDVEWTQALPWRLDVLFPCHRLIPPLSWWDILDVMPSLGQPVLLEL
 RSLWPLDQSVAQTLQDQKFVLLLDLSDIHFMCHELLSMHVCWAVRTQVQHWQVLLNPGEMWVAHLKRVLFRP
 RGLYPWLSILKSSDLGMELVPAAFYLRKKGFVWGSFPLWNSSIPETWSWDPGERLIFITDATICATNYHF
 ARSFFP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

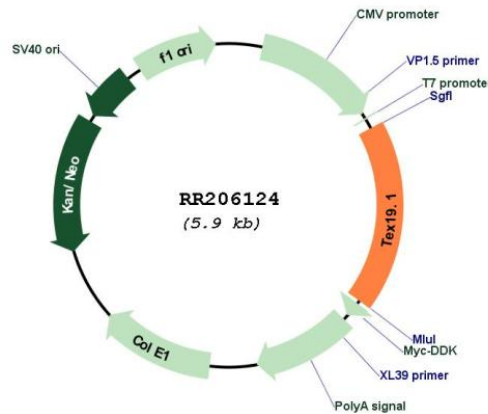
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001017482

ORF Size:	1068 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	NM_001017482.1 , NP_001017482.1
RefSeq Size:	1755 bp
RefSeq ORF:	1071 bp
Locus ID:	498033
UniProt ID:	Q5XHY3
Cytogenetics:	10q32.3
MW:	40.9 kDa
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]