

## Product datasheet for **RC209297**

### TEX19 (NM\_207459) Human Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
Product Name: TEX19 (NM\_207459) Human Tagged ORF Clone  
Tag: Myc-DDK  
Symbol: TEX19  
Mammalian Cell Selection: Neomycin  
Vector: pCMV6-Entry (PS100001)  
E. coli Selection: Kanamycin (25 ug/mL)  
ORF Nucleotide Sequence: >RC209297 representing NM\_207459  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTGCCCTCCGGTCAGCATGCGGTATGAGGAAGAGGGCATGTCCTACCTGTACGCCTCCTGGATGTATC  
AGCTTCAACATGGAGATCAGCTAAGCATTTGCTTCACTGCTTCAAGGCTGCCTTTCTAGACTTTAAAGA  
CTTGCTGGAGTCAGAGGACTGGGAAGAAGACAAGTGGGACCTGAGCTGATGGAGCACACTGAGGCAGAG  
TCAGAGCAGGAGGGTCTCAGGGATGGAGCTGAGCTGGGGCAGAGCCAGGACAGCCTGTGCAGGGGG  
GCTCTGAGGCATGGGGGCCAGGGACCTGGCAGCAGCCCAAGGGTTGAAGATGCAGGTCTGGACCC  
CCACTTTGTCCCACTGAACATATGGCCTCAGGAGGCTGTGCCCTGGGCCTGGGCCTTGAGGATGCTGAC  
TGGACCCAGGGTCTTCCCTGGAGATTTGAGGAGCTTCTACCTGCTCACACTGGCCAAGCTTCTTCCTT  
CA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC209297 representing NM\_207459  
Red=Cloning site Green=Tags(s)

MCPVSMRYEEEGMSYL YASWMYQLQHGDQLSICFTCFKAAFLDFKDLLESEDWEEDNWDPELMEHTEAE  
SEQEGSSGMELSWGQSPGPVQGGSEAWGPGTLAAPEGLEADGLDPHFVPTLWPQEA VPLGLGLEAD  
WTQGLPWRFEELLTCSHWPSFFPS

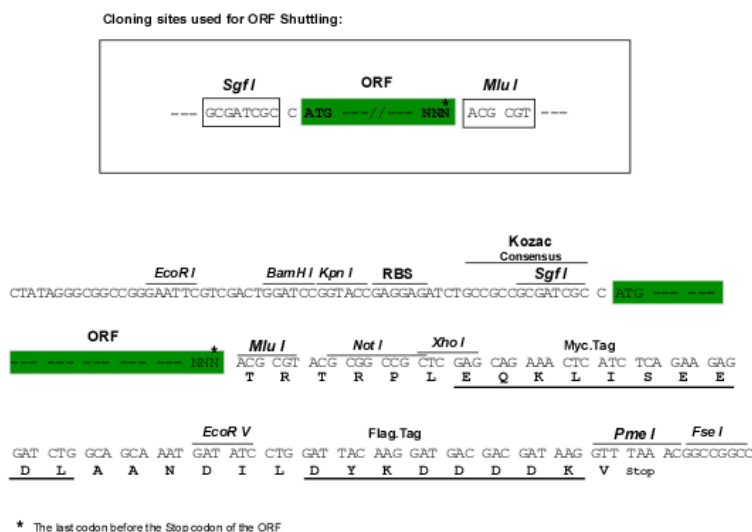
**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/ja1434\\_a07.zip](https://cdn.origene.com/chromatograms/ja1434_a07.zip)

Restriction Sites: SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_207459

**ORF Size:** 492 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:**

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\\_207459.4](#)

**RefSeq Size:** 1907 bp

**RefSeq ORF:** 495 bp

**Locus ID:** 400629

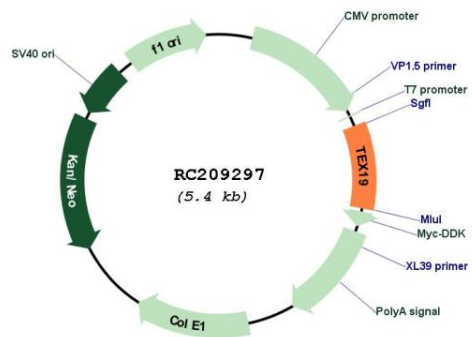
**UniProt ID:** [Q8NA77](#)

**Cytogenetics:** 17q25.3

**MW:** 18.3 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 (By similarity). 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]

**Product images:**



Circular map for RC209297