

Product datasheet for MR205325

Tex19.1 (NM_028602) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tex19.1 (NM_028602) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tex19.1
Synonyms:	2410081M02Rik; mTex19.1; Tex19; Tex19a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205325 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGTGTCCCCAGTCAGCGTTTCGCCATGGGGCCAGGGGCATGTCCTGCCTCTATGGGGCATGGCTGTACC
ATCTTGTCCATGGGGAACAGACGAAGATCTGCTTTGCTTGCTTCAAGGCAGCTTTCCTATTGAATAAACT
CTACCTGGAGATGGGAGACTGGCAAGAGGAAGAAGAGGAGGAAGAGGAAGAGGAAGATGCCGATCTCCTG
GAATACTTGTGAGTCAAGTCAAGTCTGAGCAGGAGCCAGGGCCTGAGCAGGATGCATGGCGGGGAT
TGGGGTCCCTTTATGTGCCACAGAGTGTCTCTGAAGGGTCTGGGGTCTGCTGCCAACCCCTGTGTGGAC
ACAGGGCATACTATTCTCCATTTTTGTGCCACTGAGCTCTTCCCTCAGGAAGCTGTACCCCTGGATCTG
GGTCTGAGGATGCTGAGTGGACCCAGGCCCTTCCCTGGAGACTTGATGGGCTTTTTCCCTGCTCGCACC
AGCTCATCCCTCCTCTGACTTGGTGGGATATTTTTGATGTGATGCCATCTCCTGGCAACCTGTGTTGTT
GGAGTTGAGATGCCACTGGCCCTTGACCAGACAGTAGCACAATCCTGGTTGCAAGACCAGAAGTTTGTG
CTCCTGTTGGATGGCGTCCAATCTAGGTGCCACCTGCTGTCAATGCGTGTCCGCTGGGTCGTAAGGACTC
AGGTCCAGCACTGGCAGGTGTTGCTGGACCCTGGTGGAGATGTGGGTGGCCATTTTCGAAAGAAGTTGG
GCAGCACGGCCTGTACCATCAGAGCCTGAATCCCTGGAGGCTGAGCATCCTGACAGCTTCAGAATTAGGG
ATGGAGTTATTGCCTGCCACCTGCTACCTGTGGAATAAAGGCTTCTGGGTAGGTTCCCTTGGCCCTGGC
ACATTAACATGCCAGAGACCCGGAGCTGGGAGCCAGGAGAGAGGCTGTTTATCACAGATGCTACTATTTG
TGGTACTGACTACCACCTTGCTCAGTCTTTCCTTGATTCCCACCCACCCCCACCCCTCCTGACCCTT
ACTCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR205325 protein sequence
 Red=Cloning site Green=Tags(s)

MCPPVSVRHGARGMSCLYGAWLYHLVHGEQTKICFACFKAAFLNKLYLEMGDWQEEEEEEEEEDADLL
 EYLSESESDSEQEPGPEQDAWRGLGSLYVQSVSESGVLLPTPVWTQGILFSIFVPTLFPQEAVPLDL
 GPEDAEWTAQALPWRLDGLFPCSHQLIPPLTWWDIFDVMPSPGQPVLLELRCHWPLDQTVASWLQDQKFV
 LLLLDGVQSRCHLLSMRVRWVVRTQVQHWQVLLDPGEMWVAHFRKEVGHGLYHQSLNPWRLSILTASELG
 MELLPATCYLWNGKFWGVSFLPWHINMPETRSWEPGERLFITDATICGTDYHLAQSF LDSHPTPHPLLLT
 TP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfi-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_028602

ORF Size: 1059 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_028602.2](#), [NP_082878.2](#)

RefSeq Size: 1754 bp

RefSeq ORF: 1056 bp

Locus ID: 73679

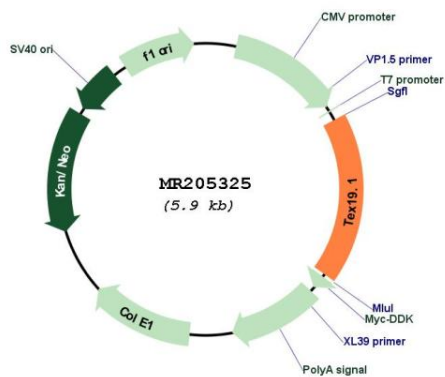
UniProt ID: [Q99MV2](#)

Cytogenetics: 11 E2

MW: 40.4 kDa

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]

Product images:



Circular map for MR205325