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Product datasheet for MG205325

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:	TurboGFP
Symbol:	Tex19.1
Synonyms:	2410081M02Rik; mTex19.1; Tex19; Tex19a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG205325 representing NM_028602
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTGTCCCCCAGTCAGCGTTCGCCATGGGGCCAGGGGCATGTCCTGCCTCTATGGGGCATGGCTGTACC
ATCTTGTCCATGGGGAACAGACGAAGATCTGCTTTGCTTGCTTCAAGGCAGCTTTCCTATTGAATAAACT
CTACCTGGAGATGGGAGACTGGCAAGAGGAAGAAGAGGAGGAAGAGGAAGAGGAAGATGCCGATCTCCTG
GAATACTTGTCAGAGTCAGAGTCAGATTCTGAGCAGGAGCCAGGGCCTGAGCAGGATGCATGGCGGGGAT
TGGGGTCCCTTTATGTGCCACAGAGTGTCTCTGAAGGGTCTGGGGTCCTGCTGCCAACCCCTGTGTGGAC
ACAGGGCATACTATTCTCCATTTTTGTGCCCACTGAGCTCTTTCCTCAGGAAGCTGTACCCCTGGATCTG
GGTCCTGAGGATGCTGAGTGGACCCAGGCCCTTCCCTGGAGACTTGATGGGCTTTTTCCCTGCTCGCACC
AGCTCATCCCTCCTCTGACTTGGTGGGATATTTTTGATGTGATGCCATCTCCTGGGCAACCTGTGTTGTT
GGAGTTGAGATGCCACTGGCCCTTGGACCAGACAGTAGCACAATCCTGGTTGCAAGACCAGAAGTTTGTC
CTCCTGTTGGATGGCGTCCAATCTAGGTGCCACCTGCTGTCAATGCGTGTCCGCTGGGTCGTAAGGACTC
AGGTCCAGCACTGGCAGGTGTTGCTGGACCCTGGTGAGATGTGGGTGGCCCATTTTCGGAAAGAAGTTGG
GCAGCACGGCCTGTACCATCAGAGCCTGAATCCCTGGAGGCTGAGCATCCTGACAGCTTCAGAATTAGGG
ATGGAGTTATTGCCTGCCACCTGCTACCTGTGGAATAAAGGCTTCTGGGTAGGTTCCTTCTTGCCCTGGC
ACATTAACATGCCAGAGACCCGGAGCTGGGAGCCAGGAGAGAGGCTGTTTATCACAGATGCTACTATTTG
TGGTACTGACTACCACCTTGCTCAGTCTTTCCTTGATTCCCACCCCACCCCCCACCCCCTCCTGACCCTT
ACTCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

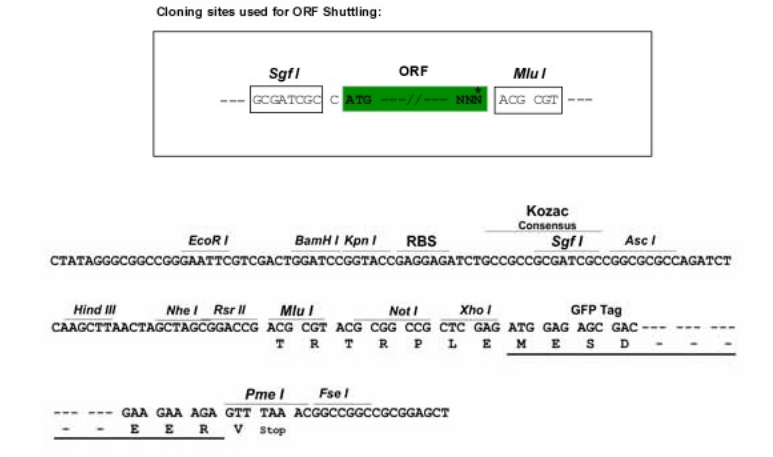
>MG205325 representing NM_028602
Red=Cloning site Green=Tags(s)

MCPPVSVRHGARGMSCLYGAWLYHLVHGEQTKICFACFKAAFLLNKLYLEMGDWQEEEEEEEEEEDADLL
EYLSESESDSEQEPGPEQDAWRGLGSLYVPQSVSEGSGVLLPTPVWTQGILFSIFVPTELFPQEAVPLDL
GPEDAEWTQALPWRLDGLFPCSHQLIPPLTWWDIFDVMPSPGQPVLLELRCHWPLDQTVAQSWLQDQKFV
LLLDGVQSRCHLLSMRVRWVVRTQVQHWQVLLDPGEMWVAHFRKEVGQHGLYHQSLNPWRLSILTASELG
MELLPATCYLWNKGFWVGSFLPWHINMPETRSWEPGERLFITDATICGTDYHLAQSFLDSHPTPHPLLTL
TP

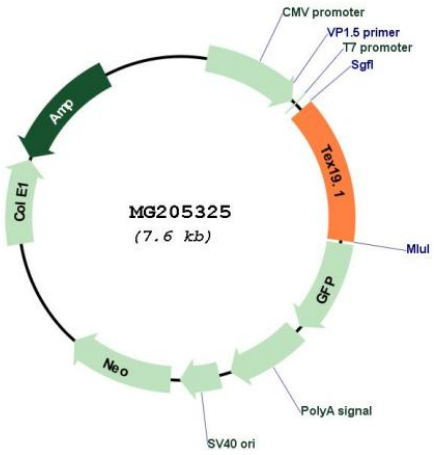
TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_028602

ORF Size:	1053 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
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 retranstoposon mobilization (PubMed:28806172).[UniProtKB/Swiss-Prot Function]