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Product datasheet for RG209297

TEX19 (NM_207459) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TEX19 (NM_207459) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TEX19
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209297 representing NM_207459 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTGCCCTCCGGTCAGCATGCGGTATGAGGAAGAGGGCATGTCCTACCTGTACGCCTCCTGGATGTATC AGCTTCAACATGGAGATCAGCTAAGCATTTGCTTCACCTGCTTCAAGGCTGCCTTTCTAGACTTTAAAGA CTTGCTGGAGTCAGAGGACTGGGAAGAAGACAACTGGGACCCTGAGCTGATGGAGCACACTGAGGCAGAG TCAGAGCAGGAGGGGTCCTCAGGGATGGAGCTGAGCTGGGGGCAGAGCCCAGGACAGCCTGTGCAGGGGG GCTCTGAGGCATGGGGGCCAGGGACCCTGGCAGCAGCCCCAGAAGGGTTGGAAGATGCAGGTCTGGACCC CCACTTTGTCCCCACTGAACTATGGCCTCAGGAGGCTGTGCCCCTGGGCCTGGGCCTTGAGGATGCTGAC TGGACCCAGGGTCTTCCCTGGAGATTTGAGGAGCTTCTTACCTGCTCACACTGGCCAAGCTTCTTTCCTT CA ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA
Protein Sequence:	>RG209297 representing NM_207459 Red=Cloning site Green=Tags(s) MCPPVSMRYEEEGMSYLYASWMYQLQHGDQLSICFTCFKAAFLDFKDLLESEDWEEDNWDPELMEHTEAE SEQEGSSGMELSWGQSPGQPVQGGSEAWGPGTLAAAPEGLEDAGLDPHFVPTELWPQEAVPLGLGLEDAD WTQGLPWRFEELLTCSHWPSFFPS TRTRPLE - GFP Tag - V
Restriction Sites:	SgfI-MluI

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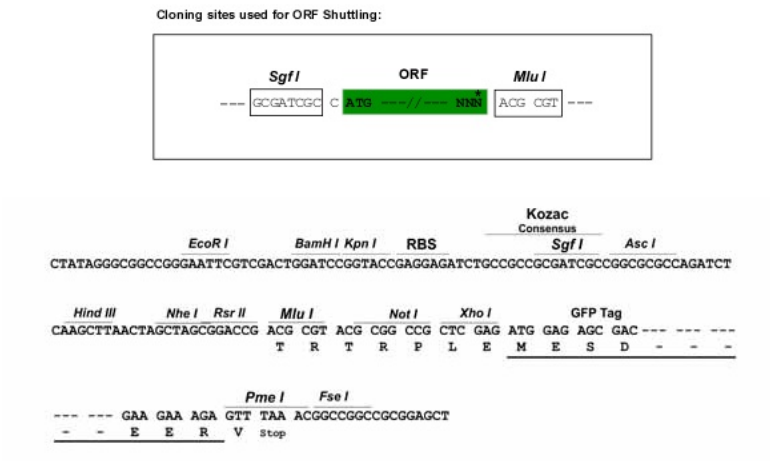
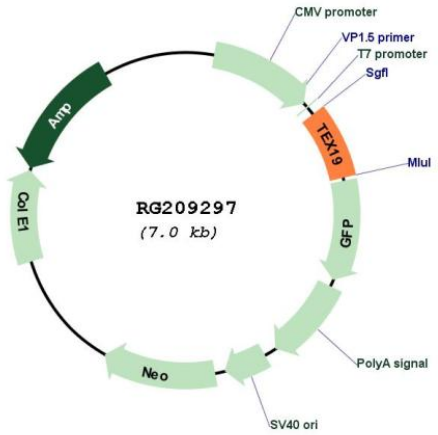
Cloning Scheme:



Plasmid Map:



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_207459.1, NP_997342.1
RefSeq Size:	1907 bp
RefSeq ORF:	495 bp
Locus ID:	400629
UniProt ID:	Q8NA77
Cytogenetics:	17q25.3
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 (By similarity). 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]