

Product datasheet for **MG222451**

Tex19.2 (NM_027622) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tex19.2 (NM_027622) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tex19.2
Synonyms:	4921530G04Rik; Tex19b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG222451 representing NM_027622 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGTCCCCAGTCAGCGTTTCGCCATGGGGCCAAGGGCATGTCCTGCCTCTATGGGGCGTGGCTGTACC
ATCTTGTCCATGGGGAACAGATGAAGATCTGCTTTGCTTGCTTCAAGGCAGCTTTCCTCGTCGTTAAGAA
CATGCTGGAGATGGGAGACTGGGAAGAAGGAGTGTGGGATGCTGAGCCCATGGAAGCTCTCAGAGGCATCG
TCTGAGCCCGAGGAATGGCCCGGCTTAGTGGGGAGAGGGCCAAGGTCATCTGCCACATGGCATCTCTG
TCTCTGCAGGCTCTGGGCTCAGGGACCCAGCCTGTGCCACTGAGCTGGGGCCTCAGGAAGCTGTACC
CCTGGATCTGGGTCCTGAGGATGCTGAGTGGACCCAGGCCCTTCCTGGAGATTTGATGGGCTTTCACCC
TGCTCCCACTGGCTCATCCCTCCTTTGTCTGGTGGGAGATTTTCAATGTAAGCCCATCTCCTGGGCAAC
CTGTATTGTTGGAGTTGAGCCCCACCTGGCCATGGACCCGTTGGAAGCAGAAGCATGGTTGGTAGGCCCT
GAAGTTCGTTTTCTTCTGGGTGGCTTTGACGCCATTTGCTACATGCTGTCAATGACTCCCTGTTGGGCC
GTGAGAACCCGTGTCCAGCGCTGGCAGGTGTGCTGGACCCTGGTACGCTGAGAGTGGCCAGCTGCAGA
ATGCACCTGAACAGCAAGACCTGCACCGCTGGAAGCTAAGCGTCTGGAGTCTCAGAGCTGGGGATGGA
GCTGGTGCCTGCTGACTGCAGCCTACAAAAGGGAGGCTTCAAGGTGCATTTCGATTTGCCCTGGCACAAT
AGCACCCAGAGTCTGGAGCAGGGAGCCAGGGAGAGGCTCCTTGTGGTAGAAGTTGTATCTCTGAGGG
AGTTGCCCTGCTCCGTTCCCTCCCTCCCTGATCCACACAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG222451 representing NM_027622
 Red=Cloning site Green=Tags(s)

MCPPVSVRHGAKGMSCLYGAWLYHLVHGEQMKICFACFKAAFLVVKNMLEMGDWEEGVWDAEPMELSEAS
 SEPEEWPLSGGEGQGHLPHGIVSAGSGAQGPVPTLGPQEAVPLDLGPEDAETQALPWRFDGLSP
 CSHWLIPPLSWWEIFNVSPSPGQPVLEL SPTWPMPLAEAWLVGLKFVLLGGFDAICYMLSMTPCWA
 VRTRVQRWQVLLDPGDVRAQLQNAPEQQDLHRWKL SVLESSELGMELVPADCSLQKGGFKVHSYLPWHN
 STPESWSREPPERLLVVEVVSLELPCFRSPSPDPHN

TRTRPLE - GFP Tag - V

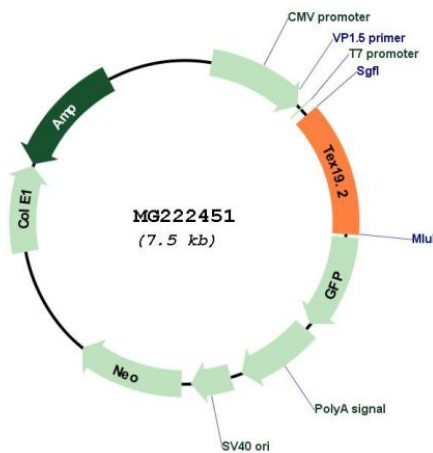
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_027622

ORF Size: 951 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_027622.3 , NP_081898.1
RefSeq Size:	2046 bp
RefSeq ORF:	954 bp
Locus ID:	70956
UniProt ID:	Q9D5S1
Cytogenetics:	11 E2
Gene Summary:	May be required during spermatogenesis, probably by participating in the repression of retrotransposable elements and prevent their mobilization (Probable). With its paralog, Tex19.1, 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).[UniProtKB/Swiss-Prot Function]