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Product datasheet for MG203782

Tmem119 (NM_146162) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmem119 (NM_146162) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tmem119
Synonyms:	AW208946; BC025600; obif
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG203782 representing NM_146162
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTCCCCTGGTTCCTCCTGTCTCTGCTGCTACTTGCGAGGCCTGTGCCTGGGGTGGCCTACTCTGTGT
CACTCCCGGCCTCCTTCCTGGAGGATGTAGCCGGCAGCGGGGAAGCTGAGGGTTCTTCAGCCTCTTCCCC
GAGCCTGCCGCCGCCTGGGACTCCAGCCTTCAGTCCCACACCGGAGAGACCCCAGCCCACAGCTCTGGAC
GGCCCCGTGCCACCCACCAACCTCCTGGAAGGGATCATGGATTTCTTCCGGCAGTACGTGATGCTCATCG
CGGTGGTGGGCTCGCTGACCTTCCTCATCATGTTCATAGTCTGCGCCGCCCTCATCACGCGCCAGAAGCA
CAAGGCCACAGCCTACTACCCATCCTCGTTCCCTGAAAAGAAGTATGTGGACCAGAGAGACCGGGCTGGG
GGACCCCGTACCTTCAGCGAGGTCCCTGACAGGGCACCTGACAGCCGGCATGAAGAAGGCCTGGACACCT
CCCATCAGCTCCAGGCTGACATTCTGGCTGCTACCCAGAACCTCCGGTCTCCAGCTAGAGCCCTGCCAGG
CAATGGGGAGGGAGCAAAGCCTGTGAAGGGTGGGTCGGAGGAGGAGGAGGAAGAGGTGCTCAGCGGTCAG
GAGGAGGCCCAGGAAGCCCCAGTATGTGGGGTCACTGAAGAGAAGCTGGGGGTCCCAGAGGAGTCGGTCT
CAGCAGAGGCTGAAGGGGTTCCTGCCACCAGTGAGGGCCAAGGGGAAGCAGAAGGGTCTTTCTCCTTAGC
CCAGGAATCCCAGGGAGCAACTGGTCCTCCTGAAAGTCCCTGTGCCTGCAACAGAGTCTCCCCCAGTGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

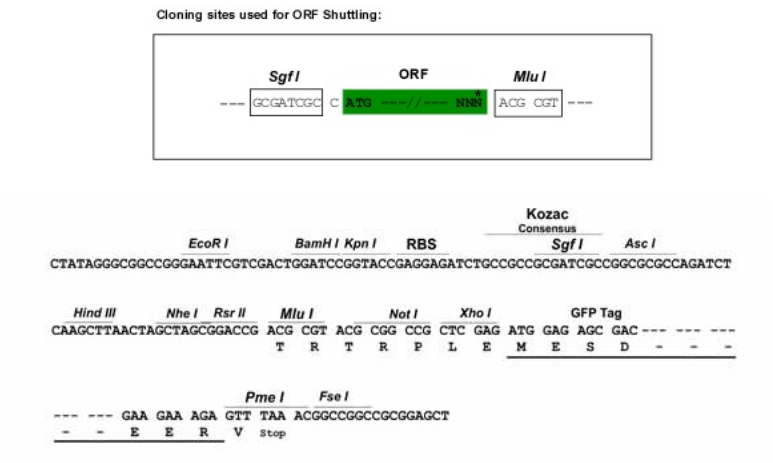
>MG203782 representing NM_146162
Red=Cloning site Green=Tags(s)

MVPWFLLSLLLLARPVPGVAYSVSLPASFLEDVAGSGEAEGSSASSPSLPPPGTPAFSPTPERPQPTALD
GPVPPTNLLEGIMDFFRQYVMLIAVVGSLTFLIMFIVCAALITRQKHKATAYYPSSFPEKKYVDQRDRAG
GPRTFSEVPDRAPDSRHEEGLDTSHQLQADILAATQNLRSPARALPGNGEGAKPVKGGSEEEEEEVLSGQ
EEAQEAPVCGVTEEKLGVPEESVSAEAEGVPATSEGQGEAEGSFSLAQESQGATGPPESPCACNRVSPSV

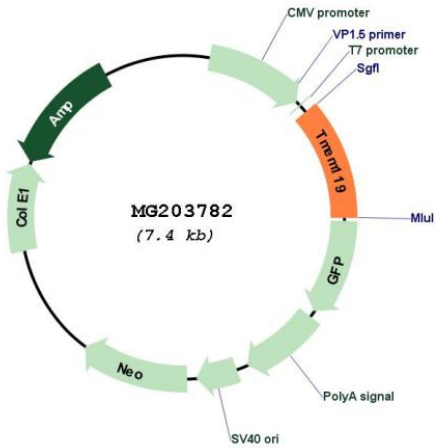
TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_146162

ORF Size: 840 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_146162.3
RefSeq Size:	2137 bp
RefSeq ORF:	843 bp
Locus ID:	231633
UniProt ID:	Q8R138
Cytogenetics:	5 F
Gene Summary:	Plays an important role in bone formation and normal bone mineralization (PubMed:26207632, PubMed:22416756, PubMed:20025746). Promotes the differentiation of myoblasts into osteoblasts (PubMed:22416756, PubMed:20025746, PubMed:22579779). May induce the commitment and differentiation of myoblasts into osteoblasts through an enhancement of BMP2 production and interaction with the BMP-RUNX2 pathway (PubMed:21239498, PubMed:22579779). Upregulates the expression of ATF4 which plays a central role in osteoblast differentiation (PubMed:24362451). Essential for normal spermatogenesis and late testicular differentiation (PubMed:26207632).[UniProtKB/Swiss-Prot Function]