

Product datasheet for **MG213346**

Tmem178 (NM_026516) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmem178 (NM_026516) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tmem178
Synonyms:	2810417M05Rik; Tmem178a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG213346 representing NM_026516 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGCCACGGGCGCTCGTCACGGCGCTAAGCCTCGGCCTCAGCCTTTGCTCCCTGGGGCTGCTCGTCA
 CGGCCATCTTCACCGACCACTGGTACGAGACCGACCCCGGCCACAAGGAGAGCTGCGAGCGCAGCCG
 CGCGGGCGCCGACCCCGGATCAGAAGAACCCTGATGCCGCTGTCGACCTGCCGCTGCGGGACTCG
 CCTCCCTGGGGCGCGGCTGCTCCCGCGGCCCGGGCGCTCAGACCCTGAGTCCTGGCGCTCGCTTC
 TGGGGCTTGGCGGTTGGACGCTGAGTGTGGCCGCCACTGTTGCCACCTACTCGGGCCTCTGGAGGAA
 GTGCTACTTTCTGGGCATCGACCGGACATCGACACCCTCATCCTGAAAGGTATTGCACAGCGATGCACA
 GCAATCAAGTACCACTTTTCTCAGCCAATCCGCTTAAGAAACATTCTTTCAATTTAACCAAGACAATCC
 AGCAAGATGAATGGCACCTGCTTCATCTAAGAAGAATAACAGCTGGCTTCCTGGGCATGGCGGTGGCTGT
 CCTGCTGTGTGGCTGCATTGTGGCCACGGTCAGCTTCTTCTGGGAGGAAAGCCTGACCCAGCAGTGCGCC
 GGACTCCTATTCTCATGACAGGGATATTTGCACCATCTCGCTCTGCACGTACGCCGCCAGTGTCTCCT
 ATGACTTGAACCGGGTCCCGAAGCTAATTTACAGCCTGCCTCATGATGTGGAACATGGCTACAGCTGGTC
 CATCTTTTGTGCCTGGTGCAGTTTAGGTTTTATCGTGGCAGCTGGAGGTCTCTGCATCGCTTATCCGTTT
 ATTAGCGGACGAAGATTGCACATCTAAAGTCTGGCAGGGACTCCACGGTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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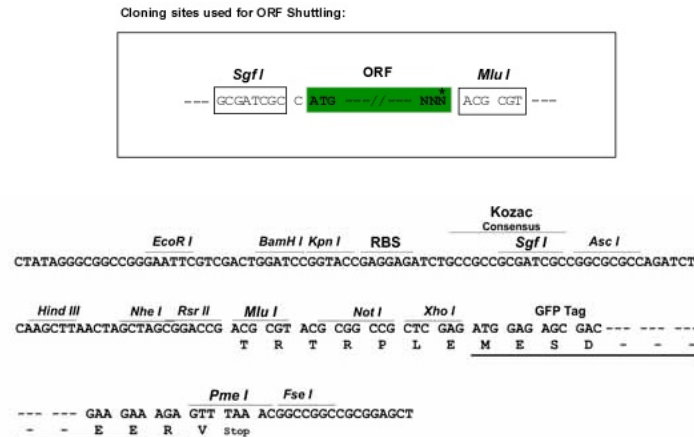
Protein Sequence: >MG213346 representing NM_026516
 Red=Cloning site Green=Tags(s)

MEPRALVTALSLGLSLCSLGLLVTAIFTDHWYETDPRRHKESCERSRAGADPPDQKNRLMPLSHLPLRDS
 PPLGRRLLPGGPGRSDPESWRSLGLGLDAECGRPLFATYSGLWRKCYFLGIDRDIDTLILKGIAQRCT
 AIKYHFSQPIRLRNIPFNLTKTIQQDEWHLLHLRRITAGFLGMAVAVLLCGCIVATVSFFWEESLTQHVA
 GLLFLMTGIFCTISLCTYAASVSYDLNRVPKLIYSLPHDVEHGYSWIFCAWCSLGFIVAAGGLCIAYPF
 ISRTKIAHLKSGRDSTV

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_026516

ORF Size: 891 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_026516.2](#), [NP_080792.2](#)

RefSeq Size: 1696 bp

RefSeq ORF: 894 bp

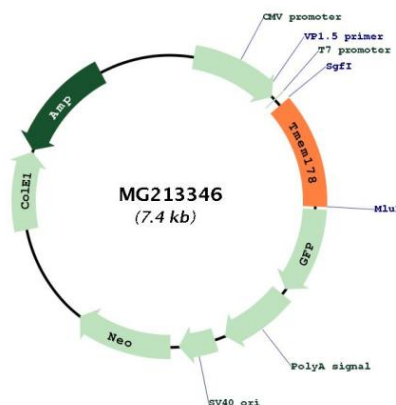
Locus ID: 68027

UniProt ID: [Q9CZ16](#)

Cytogenetics: 17 E3

Gene Summary: Acts as a negative regulator of osteoclast differentiation in basal and inflammatory conditions by regulating TNFSF11-induced Ca (2+) fluxes, thereby controlling the induction of NFATC1 (PubMed:26644563).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG213346