

Product datasheet for MR213346

Tmem178 (NM_026516) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmem178 (NM_026516) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tmem178
Synonyms:	2810417M05Rik; Tmem178a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR213346 representing NM_026516 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGAGCCACGGGCGCTCGTCACGGCGCTAAGCCTCGGCCTCAGCCTTTGCTCCCTGGGGCTGCTCGTCA
 CGGCCATCTTCACCGACCACTGGTACGAGACCGACCCCGGCCCAAGGAGAGCTGCGAGCGCAGCCG
 CGCGGGCGCCGACCCCGGATCAGAAGAACCCTGATGCCGCTGTCGACCTGCCGCTGCGGGACTCG
 CCTCCCCTGGGGCGCGGCTGCTCCCGCGGCCCGGGCGCTCAGACCCTGAGTCCTGGCGCTCGCTTC
 TGGGGCTTGGCGGTTGGACGCTGAGTGTGGCCGCCACTGTTGCCACCTACTCGGGCCTCTGGAGGAA
 GTGCTACTTTCTGGGCATCGACCGGACATCGACACCCTCATCCTGAAAGGTATTGCACAGCGATGCACA
 GCAATCAAGTACCACTTTTCTCAGCCAATCCGCTTAAGAAACATTCTTTCAATTTAACCAAGACAATCC
 AGCAAGATGAATGGCACCTGCTTCATCTAAGAAGAATAACAGCTGGCTTCTGGGCATGGCGGTGGCTGT
 CCTGCTGTGTGGCTGCATTGTGGCCACGGTCAGCTTCTTCTGGGAGGAAAGCCTGACCCAGCAGTGCGC
 GGACTCCTATTCTCATGACAGGGATATTTGCACCATCTCGCTGACGTACGCCGCCAGTGTCTCCT
 ATGACTTGAACCGGGTCCCGAAGCTAATTTACAGCCTGCCTCATGATGTGGAACATGGCTACAGCTGGTC
 CATCTTTTGTGCTGGTGCAGTTTAGGTTTTATCGTGGCAGCTGGAGGTCTCTGCATCGCTTATCCGTTT
 ATTAGCGGACGAAGATTGCACATCTAAGTCTGGCAGGGACTCCACGGTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >MR213346 representing NM_026516
 Red=Cloning site Green=Tags(s)

MEPRALVTALSLGLSLCSLGLLVTAIFTDHWYETDPRRHKESCERSRAGADPPDQKNRLMPLSHLPLRDS
 PPLGRRLLPGGPGRSDPESWRSLGLGLDAECGRPLFATYSGLWRKCYFLGIDRDIDTLILKGIAQRCT
 AIKYHFSQPIRLRNIPFNLT KTIIQQDEWHLLHLRRITAGFLGMVAVLLCGCIVATVSFFWEESLTQHVA
 GLLFLMTGIFCTISLCTYAASVSYDLNRVPKLIYSLPHDVEHGYSWIFCAWCSLGFIVAAGGLCIAYPF
 ISRTKIAHLKSGRDSTV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9023_g03.zip

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

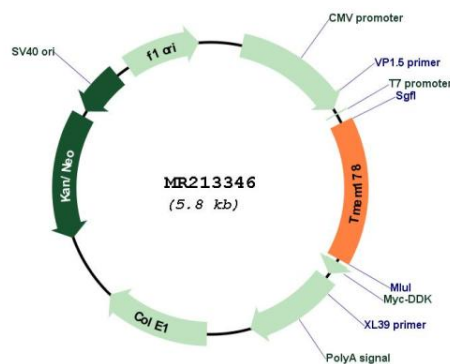
UniProt ID: [Q9CZ16](#)

Cytogenetics: 17 E3

MW: 33.5 kDa

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 MR213346