

Product datasheet for MR202216

Cmtm4 (NM_153582) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cmtm4 (NM_153582) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Cmtm4
Synonyms: Cklfsf4; D19397; ENSMUSG00000051554; Gm9853
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR202216 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATCGGGGCGGCGAGGAGCTGGACGGCTTCGAGGGCGAGGCTCGAGCACCTCCATGATCTCGGGCGCCA
 GCAGCCGTACCAACCCACCACCGAGCCGGTGAAGCAGCGCCGGGCTGGCCGGCTGCGCTGCGACCC
 GGACTACCTGCGGGCGGCTCGCCGCTCAAGGTCGCCAAGTATTCTGGCCTTGATTGATTTATC
 TGCATCGAGACTATCATGGAGTGTCCCGTGCAGGAGGCTCTACTTCTTTGAGTTCGTAAGCTGCAGT
 CATTTGGTGTACTGGGGTCTGCTGATTCTCTCAGCCTCAACCTTCATATGAGGATCCCCAGATCAA
 CTGGAATCTAACAGATTTGGTCAACACTGGACTCAGCACTTTCTTTTCTTTATCGCCTCAATCGTGTG
 GCTGCTCTAAACCATAAAACCGGAGCGGAAATGCTGCCGTGATATTTGGCTTCTTGGCAACAGCAGCCT
 ATGCAGTGAGCACATTCTGGCCATGCAGAAATGGAGAGTCAGCGTCCGCCAGCAGAGCACTAATGACTA
 CATCCGAGCTCGACCGAGTCGAGAGATGTGGACAGCCGCTGAGATCCAGCGCCTGGACACA

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR202216 protein sequence
 Red=Cloning site Green=Tags(s)

MRGGEELDGFEGEASSTSMISGASSPYQPTTEPVSRRLAGLRCDPDYLRGALGRLKVAQVILALIAFI
 CIETIMECSPCEGLYFFEFVSCSAFVVTGVLLILFSLNLHMRIPQINWNLTDLVNTGLSTFFFFIASIVL
 AALNHKTGAIEAAVIFGFLATAAYAVSTFLAMQKWRVSVRQQSTNDYIRARTESRDVDSRPEIQRLDT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_153582

ORF Size: 627 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_153582.5](#)

RefSeq Size: 7734 bp

RefSeq ORF: 627 bp

Locus ID: 97487

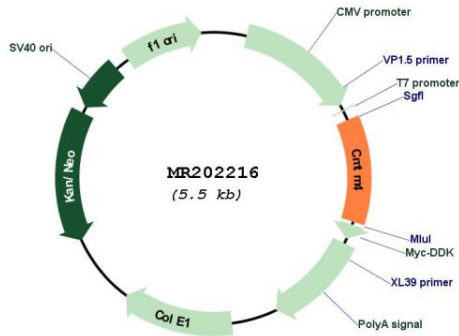
UniProt ID: [Q8CJ61](#)

Cytogenetics: 8 D3

MW: 22.9 kDa

Gene Summary: Acts as a backup for CMTM6 to regulate plasma membrane expression of PD-L1/CD274, an immune inhibitory ligand critical for immune tolerance to self and antitumor immunity. May protect PD-L1/CD274 from being polyubiquitinated and targeted for degradation. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR202216