

## Product datasheet for **MR210378**

### Meltf (NM\_013900) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Meltf (NM_013900) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Meltf
Synonyms:	CD228; Mfi2; MTF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide  
Sequence:**

>MR210378 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGGCTCTGAGCGTGACTTTTTGGCTACTCCTGTCCCTGCGCACTGTCTGTGTGATGGAGGTGC  
 AGTGGTGTACCATCTCAGACGCAGAGCAGCAGAAGTGCAAAGACATGAGCGAGGCCCTCCAGGGAGCTGG  
 CATTTCGCTCTCCCTTCTCTGCGTCCAGGGCAACTCCGCTGACCACTGTGTCCAGCTCATCAAGGAACAA  
 AAAGCAGATGCCATCACCTGGATGGAGGGGCCATCTATGAGGCAGGGAAGGAGCACGGCCTGAAGCCAG  
 TGGTGGGGAAAGTCTATGACCAAGACATTGGGACTTCTATTATGCCGTGGCTGTGGTCAGGAGGAATTC  
 CAATGTTACCATCAACACCCTGAAGGGCGTCAAGTCTGCCACACAGGCATTAACCGGACTGTGGGCTGG  
 AACGTGCCTGTCGGTTACCTCGTAGAGAGCGGCCATCTGTCAGTGATGGGCTGTGATGTGCTCAAAGCCG  
 TTGGTGATTATTTGGAGGCAGCTGTGCCCTGGAACAGGAGAAACCAGCCATTCGAGTCCCTCTGTCCG  
 CCTCTGCCGTGGCGACTTCTGGGCACAATGTGTGTGACAAGAGTCCCCTAGAGAGATACTACGACTAC  
 AGTGGAGCCTCCGGTGCCTGGCGGAAGGAGCCGGTGACGTGGCCTTCGTGAAGCACAGCACAGTGCCTGG  
 AAAATACTGATGGAAACACCCTGCCTTCTGGGGCAAGTCCCTGATGTCAGAGGACTTCCAGCTACTATG  
 CAGGGATGGCAGCCGAGCCGACATCACTGAGTGGAGACGTTGCCACCTGGCCAAGGTGCCTGCTCATGCT  
 GTGGTGGTCAGGGGTGACATGGATGGCGGTCTCATATTCCAAGTCTCAACGAAGGCCAGCTTCTGTTCA  
 GCCACGAAGACAGCAGCTTCCAGATGTTCAAGTCCAAAGCCTACAGCCAGAAGAAGTGTGTTCAAAGA  
 CTCCACCTTGGAGCTTGTGCCATTGCCACACAGAAGTATGAGGCCTGGCTGGCCAGGAATACCTGCAG  
 CCGATGAAGGGGCTCCTCTGTGATCCCAACCGGCTGCCCACTACCTGCGCTGGTGTGCTGTGCTGTCAGCGC  
 CCGAGATCCAGAAGTGTGGAGATATGGCTGTGGCCTTCAGCCGCCAGAATCTCAAGCCGGAATTCAGTG  
 TGTGTCGGCCGAGTCCCCTGAGCACTGCATGGAGCAGATCCAGGCTGGGCACACTGACGCTGTGACTCTG  
 AGGGGCGAGGACATTTACAGGGCAGGAAAGGTGTACGGCCTGGTTCGGGGCGCCGGGAGCTGTATGCTG  
 AGGAGGACAGGAGCAATTCCTACTTTGTGGTGGCTGTGGCAAGAAGGACAGCTCCTACTCCTTACCCT  
 GGACGAGCTTCGCGGCAAGCGTTCTGCCACCCCTACTTGGGCAGCCAGCGGGCTGGGAGGTGCCCATC  
 GGCTCCCTCATCCAGCGGGGCTTCCCGGCCAAGGACTGTGATGTCCTCACAGCGGTGAGCCAGTTCT  
 TCAATGCCAGTGCCTGTCAACAACCCTAAGAACTACCCTCCGCACTATGTGCGCTCTGCGTGGG  
 AGACGAGAAGGGCCGCAACAAATGTGTGGGGAGCAGCCAGGAGAGATACTACGGCTACAGCGGGCCTTC  
 AGGTGCCTTGTGGAGCATGCAGGGGACGTGGCTTCGTCGAAGCACACGACTGTCTTTGAGAACACAAATG  
 GTCACAACTCTGAGCCTTGGGCTTCTCACTCAGGTGGCAAGACTATGAACTACTGTGCCCAATGGGGC  
 ACGGGCTGAGGTAGACCAGTTCCAAGCTTGCAACCTGGCACAAATGCCATCCCACGCTGTATGGTCCGT  
 CCAGACACCAACATCTTCACTGTGTATGGACTTCTGGACAAGGCCAGGACCTGTTTGGAGACGACCATA  
 ACAAGAACGGTTTCCAAATGTTTACTCCTCCAAATATCACAGCCAAGACCTGCTTTTCAAAGATGCTAC  
 AGTCCGAGCGGTGCCAGTCCGGGAGAAAACCACATACCTGGACTGGCTGGTCTGACTATGTGGTTGCG  
 CTGGAGGGGATGTTGTCTCAGCAGTGTCCGGTGCAGGGGCCGGTGCAGCGAGTCCCCTGCTGGCCC  
 TGCTCTGCTGACCTGGCTGCAGGCCTCCTTCTCGCTTCTC

**ACGCGT**ACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR210378 protein sequence  
 Red=Cloning site Green=Tags(s)

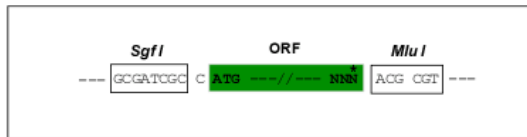
MRLLSVTFWLLLRLTRVVCVMEVQWCTISDAEQQKCKDMSEAFQGAGIRPSLLCVQGNSADHCVQLIKEQ  
 KADAITLDGGAIYEAGKEHGLKPVVGEVYDQDIGTSSYYAVAVRRNSVNTINTLKGVKSCHTGINRTVGV  
 NVPVGYLVESGHL SVMGCDVLKAVGDYFGGSCVPGTGETSHSESLCRLCRGDSSGHNVCDSPLERYDY  
 SGAFRCLAEAGADVAFVKHSTVLENTDGNLTPSWGKSLMSEDFQLLCRDGSRADITEWRRCHLAKVPAHA  
 VVVRGDMDGGLIFQLLNEGQLLFSHEDSSFQMFSSKAYSQKNLLFKDSTLELVPIATQNYEAWLGQEYLQ  
 AMKGLLCDPNRLPHYLRWCVLSAPEIQKCGDMAVAFSRQNLKPEIQCVSAESPEHCMEQIQAGHTDAVTL  
 RGEDIYRAGKVYGLVPAAGELYAEEDRSNSYFVVAVARRDSSYSFTLDELRGKRSCHPYLGSPAGWEVPI  
 GSLIQRGFIRPKDCDVL TAVSQFFNASCVPVNNPKNYPSALCALCVGDEKGRNKC VGSSQERYYGYSGAF  
 RCLVEHAGDVAFVKHTTVFENTNGHNPEPWASHLRWQDYELLCPNGARAEVDQFQACNL AQMPSHAVMVR  
 PDTNIFTVYGLLDKAQDLFGDDHNKNGFQMF DSSKYHSQDLLFKDATVRAVPVREKTTYLDWLGPDYVVA  
 LEGMLSQQCSGAGAAVQRVPLLALLLLTLAAGLLPRVL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_013900

**ORF Size:** 2217 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\\_013900.1](#), [NM\\_013900.2](#), [NP\\_038928.1](#)

**RefSeq Size:** 4133 bp

**RefSeq ORF:** 2217 bp

**Locus ID:** 30060

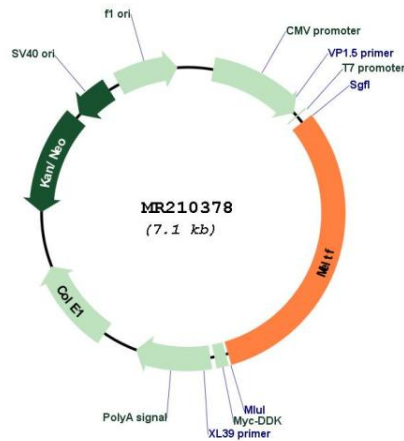
**UniProt ID:** [Q9R0R1](#)

**Cytogenetics:** 16 B2

**MW:** 81.3 kDa

**Gene Summary:** Involved in iron cellular uptake. Seems to be internalized and then recycled back to the cell membrane. Binds a single atom of iron per subunit. Could also bind zinc.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR210378