

Product datasheet for **RR201997**

Mtf1 (NM_001108677) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mtf1 (NM_001108677) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mtf1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR201997 representing NM_001108677
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGGAACACAGTCCAGACGACAACATCATCTTCTTTAAGGGAGAGGAAGATGACCTAACCCCGCATG
 ACAAGATGCTCAGTTTTGTGGATGACAACGGACTGGTGCCTTCCTCATCTGGAAGTGTATGATAGGAC
 CACTGTTCTCATAGAACAGGACCCCTGGCACTTTGGAGGATGATGAAGACGATGTACAGTGTGGAGAACAC
 TTGCCTTTTCTGGTGAAGGTGAAGAGGGCTTCTAATAGATCAGGAAGCAATGTCCAGGGTTACGTAC
 AACACATTATCTCACCAGATCAGATTCAATTTGACTATAAACCTGGTTCCAGCCATGCCAAGAAACAT
 TGAAGGTGCGACTCTTACTCTGCAGTCGGAATGTCCTGAAACGAAACGGAAAGAAGTAAAGCGGTACCG
 TGCACCTTTGAGGGATGCCCGCGCACCTACAGCACAGCAGGCAACCTACGCACCCACCAGAAGACTCAC
 GAGGAGAGTACACCTTTGTCTGTAAATCAGGAGGGCTGTGGCAAGGCCCTTCTCACCTCTACAGCCTCAG
 GATCCATGTGCGAGTGCACACAAAGGAGAAGCCATTTGAGTGTGACGTGCAGGGCTGTGAGAAGGCATTC
 AACACACTGTACAGGTTGAAAGCACATCAGAGGCTTCACACAGGAAAAGGTTTAACTGTGAATCTCAAG
 GCTGCAGCAAGTACTTACCACACTCAGTGATCTGCGGAAGCACATTCGAACCCATACAGGAGAAAAGCC
 ATTTTCATGTGATCATGACGGCTGTGAAAAGCATTTCGAGCAAGCCACCACCTTAAACTCACGTCCTGT
 ACACACTGGCGAAAGACCTTCTTCTGCCCCAGTAACGGCTGTGAGAAGACATTTAGCACTCAGTACA
 GTCTCAAAGTCACATGAAAGGTACGATAACAAAGGCACCGCTACAGTGCCTTCTCAACACAATGG
 ATCAGAGGATACAAATCACTCACTTTATCTGAGTGAGTTGGGCCTTCTGTCCACGGATTCTGAATTGCA
 GAAAATCCAGTTCGACACAGGACCAGGACCTCAGCACAATTTACCAGCAATCATCTTTGAATCAATGT
 TCCAGAATCCTGACGACCCTGCGATTGAGGATGACCCTTGACACAGCTGCCTTGATTGACAGCTTCAA
 CGGAGATGCAGAATCTGTCAGTGATGTCCACCGCTGCAGGAAATTCAGCGTCTTTATCTCTTCCACTT
 GTACTGCAGCCTGGCATCTCCGAGCCACCCAGCCTCTGCTGCCAGCCTCAACTCCGTCCGCTCCTCCAC
 CTGCTCCCTCCCTAGGACCTGGTCCCAGCCAGCTGCATTTGGCAGCCCCCTGTCTCTTACAACCTCC
 AGAAGTGCCTGTTCCCCACAGCACACAGTTTGTGCTAATCATCAAGAGTTTCTCCGACCCCCAGGCG
 CCACCCAGACCATCGTACCAGGACTCTCTGTTGTGCTGGGGCTCCTGCATCAGCAGCAACAGTGGCAT
 CAGCCGTGGCAGCACCAGCCCCACCACAAAGTACTACTGAGCCCCTGCCTGCTATGGTCCAGACTCTGCC
 CCTGGGTGCCAACTCTGTCTAACTAATAATCCCACCATAACCATCACCCCAACTCTAACACGGCAATC
 CTGCAGTCCAGCCTAGTCATGGGAGAGCAGAATTACAGTGGATATTGAACGGTGCCACCAGTTCACCAC
 AAAACCAAGAACAATTCAGCAAGCATCGAAAGTGGAGCAGGTGACTTTACCACCGCAGTACCAGTAGC
 CAGTAGCACAGGGAGCTCTGTTACAGAGATTGGCCTCAGTGTTCCTGTGATCATCATAAACAAGAGGAG
 GCCTGTCAGTGTCAGTGTGCGTGCCGGGACTCTGCGAAGGAGCGGGCGGCCGGGAGAAAAGGGATGTT
 CTTCCCCACCCCTCCAGAGCCGAACCCACAGCCTCTGATGGGCCAGCCTGCAACTGCCACCC

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR201997 representing NM_001108677
 Red=Cloning site Green=Tags(s)

MGEHSPDDNIIFFKGEEDDLTPHDKMLRFVDDNGLVPSSSGTVYDRRTTVLIEQDPGTLEDDDDVQCGEHL
 LPFLVEGEEGFLIDQEAMSOQYVQHIIISPDQIHLTINPGSTPMPRNIEGATLTLQSECPETKRKEVKRYQ
 CTFEGCPRTYSTAGNLRTHQKTHRGEYTFVCNQEGCGKAF L TSYSLRIHVRVHTKEKPFECVQCEKAF
 NTLYRLKAHQRLHTGKTFNCESQGC SKYFTT LSDLRKHIRTHTGEKPFRCDDHGGCKAFAASHHLKTHVR
 THTGERPFFCPSNGCEKTFSTQYSLKSHMKGHDNKGTAYSALPQHNGSEDTNHSLYLSELGLLSTDSELQ
 ENSSSTQDQLSTISP A IIFESMFQNPDDPAIQDDPLHTAALIDSFNGDAESVSDVPPPAGNSASLSLPL
 VLQPGISEPPQPLL PASTPSAPPPAPSLGPGSQPAAFSGSPPALLQPPEVPVPHSTQFAANHQEFLPHPQA
 PPQTIVPGLSVVAGAPASAATVASAVAAPAPPQSTTEPLPAMVQTLPLGANSVL TNNPTITITPTPNTAI
 LQSSLVMGEQNLQWILNGATSSPQNQEIQQASKVEQVYFTTAVPVASSTGSSVQQIGLSVPVIIKQEE
 ACQCQCACRDSA KERAAGRRKGCSSPPPPEPNPQPPDGP SLQLPP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001108677

ORF Size: 2025 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_001108677.1](#), [NP_001102147.1](#)

RefSeq Size: 5300 bp

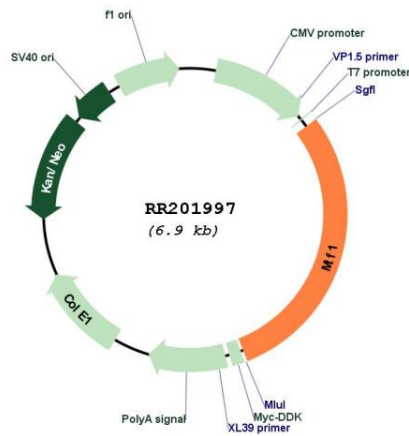
RefSeq ORF: 2028 bp

Locus ID: 362591

Cytogenetics: 5q36

MW: 72.8 kDa

Product images:



Circular map for RR201997