

Product datasheet for **MR217483**

Mtrf1l (NM_175374) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mtrf1l (NM_175374) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mtrf1l
Synonyms:	9130004K12Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR217483 representing NM_175374, **codon optimized**.
Due to the complexity of NM_175374, the ORF clone is codon optimized for mammalian Expression.
The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGCGCAGCGGATTTCTTAGCGGCGCTCGAAGATTGTGGGCACGAAGGGCCTTCAGCAGGACACCCAC
 CTTCTGAAGAGCTGCTGGCAGGCGGTCCCCTGAGGGCATTTCGGAGAGCGAGTGGGAAGCGAGGC
 TGGTGGCCTGGATGCCGGTACCCACAGTTGGCTGCAGCTGCACGGCTGCTGAGTAAAAAGAAAGAGAG
 CTTCCGCGACAGAAAGCCTCCTCCACGATGAAAACGAGGACCTCAAGAAGTTGGCTGAGCTGAGATCG
 CACTGTGTGAGAAACAGATTACGGAACGAAACATCAGATTATCAGTCTGCTCGTCCGAGCGAAGAGAT
 GGACGGCTCTGATTTGATCCTGGAAGTCACAGCCGGCGTCGGGGGTGAGGAAGCCATGCTGTTTACCAGC
 GAAATGTTGACATGTATCAGCAGTACGCCGCCTTCAAACGCTGGCATTGAGACGCTGGAGTACTTCC
 CCAGCGAGCTTGGTGGTCTGCGCCACGCCTCCGCCTCCGTGGGGGGCCCTGAGGCTTATAGGCACATGAA
 GTTTGAGGGGGCGTGCATCGAGTTCAGAGAGTCCCAAGACAGAGAAGCAGGGTCAATTCATACGAGC
 ACGATGACAGTGGCTATTCTGCCTCAACCTACCGAAATCAAGCTTGTCAAAATCCCAAGGACCTTCGGA
 TAGATACGAAGCGGGCTTCTGGAGCTGGTGGTCAAGCATGTCAACACAACAGACTCCGCTGTGAGGATTGT
 TCATCTGCCAACAGGAATCATCTCCGAGTCCAGCAGGAGCGATCTCAGCTGAAGAACAGGGAGCTCGCC
 ATGAAGAAGCTGAGAGCCGATTGTACTCCATGCACCTGGAGGAAGAAACAGCCAAAAGGTACAACGCTC
 GCAAGATACAGGTAGGCTAAGGGAAGGAGCGAAAAAATTCGCACATATAACTTTCCTCAGAACAGAGT
 GACGGATCACCGGATCAACAAGAGCCTGCACGACCTGGAGTCTTTCATGCAGGGAGATTGCCTCCTGGAT
 GACATGATCCAGAGCCTGAAGGATTGCAGCGACTATGAGGCGCTCGTCGAGATGATCTCTAGACGCGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR217483 representing NM_175374
 Red=Cloning site Green=Tags(s)

MRSGLSGARRLWARRAFSRTPPPSEELLARGGPLRAFLERRVGEAGGLDAGYPQLAAAARLLSEKERE
 LRDTESLLHDENEDLKKLAESEIALCQKQITELKHQIIISLLVPSEEMDGSDLILEVTAGVGGQEAMLFST
 EMFDMYQQYAAFKRWHFETLEYFPSELGGLRHASASVGGPEAYRHMKFEGGVHRVQRPKTEKQGRIHST
 TMTVAILPQPTEIKLVINPKDLRIDTKRASGAGGQHVNTTDSAVRIVHLPPTGIISECQERSQLKNRELA
 MKKLRARLYSMHLEEETAKRYNARKIQVGTGRSEKIRTYNFPQNRVTDHRINKSLHDLESFMQGDCLLD
 DMIQSLKDCSDYEALVEMISRRD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_175374

ORF Size: 1119 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_175374.1](#), [NM_175374.2](#), [NM_175374.3](#), [NP_780583.1](#)

RefSeq Size: 2621 bp

RefSeq ORF: 1122 bp

Locus ID: 108853

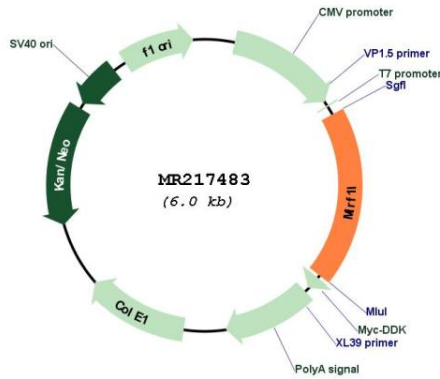
UniProt ID: [Q8BJU9](#)

Cytogenetics: 10 A1

MW: 42.2 kDa

Gene Summary: Mitochondrial peptide chain release factor that directs the termination of translation in response to the peptide chain termination codons UAA and UAG.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR217483