

Product datasheet for RR212532

Mtrf1l (NM_001025723) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mtrf1l (NM_001025723) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mtrf1l
Synonyms:	MGC116100
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR212532 representing NM_001025723 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGGAGCGGGTTTCTGCGCAGTGCCCGGCGCCTGTGGGCCCGCCGCGCCATCAGCCGCATGCCACCGC
CTTCCGAGGAGCTCCTCGCCCGCGCGGGCCCTGCGAGCCTTCTGGAGCGCCGCTGGGCTCGGAGGC
CGGCGGCTGGACGCTGGGAGTCCCAGCTTCCGCGCGGCCCGGCTGCTGAACGAGAAGGAGCGGGAG
CTACGGGACACTGAATCCTTGTGCACGATGAGAATGAAGATTTGAAGAACTCGCAGAGAGTGAGATAG
CTTTGTGTCAAAAAGAAATAGCCGAGCTGAAGCATCGGATCATCTCCCTTTTGGTTCCTCAGAAGACAT
GGATGGCAGTGACCTGATCCTGGAGGTGACTGCGGGTGTGGGTGGTCAGGAAGCCATGCTTTTCACTTCT
GAGATGTTTGACATGTACCAGCAATACGCTGCATTTAAAAGATGGCATTTTGAACACTGGAATATTTCC
CAAGTGAAGTGGTGGCCTCAGACATGCATCAGCCAGCATCGGAGGTCCAGAAGCCTACAGACACATGAA
ATTTGAAGGAGGAGTACATAGAGTACAGAGAGTACCAAAGACAGAGAGGCAAGGCCGCATCCACACCAGC
ACCATGACGGTGGCAATTCTGCCCCAGCCTACTGAGATTAACCTGGTATTAAACCCTAAAGATTTGAGAA
TTGATACGAAGAGAGCAAGTGGAGCTGGAGGTGAGCAGTAAATACCACAGACAGTGCTGTTCCGATAGT
TCATCTTCCCACAGGTATTATTTCTGAATGCCAGCAAGAAAGATCTCAGCTGAAGAACAGGGAGCTGGCT
ATGAAAAAGTTACGTGCAAGGTTATACAGCATGCGTCTAGAGGAAGAACTGCTAAAAGATACAGCGCTC
GAAAGATCCAGGTTGAACTAAAGGAAGATCAGAGAAAAAAGAACAATACAACCTTTCCACAAAATAGGGT
CACAGATCACAGAATAAACAAATCACTACATGACCTTGAGAGCTTCATGCAAGGAGACTGTCTTCTGGAT
GACCTGATACAGTCACTGAAGACTATTAGATTGAATCTCTAGTAGAAATGATTTCCAGAAAAGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RR212532 representing NM_001025723
Red=Cloning site Green=Tags(s)

MRSGLFSARRLWARRAISRMPPPSEELLARGGPLRAFLERRVGSEAGGLDAGSPQLAAARLLNEKERE
 LRDTESLLHDENEDLKKLAESEIALCQKEIAELKHRIISLLVPSEMDGSDLILEVTAGVGGQEAMLF
 TSEMFDYMQYAAFKRWHFETLEYFPSELGGLRHASASIGGPEAYRHKMFEGGVHRVQRPKTERQGR
 IHTS TMTVAILPQPTTEIKLVINPKDLRIDTKRASGAGGQHVNTTDSAVRIVHLPTGIISECQ
 QERSQLKNRELA MKKLRARLYSMRLEEETAKRYSARKIQVGTGKRSEKIRTYNFPQNRVTDHR
 INKSLHDLESFMQGDCLLD LLIQSLKDYSYDYESLVEMISRKD

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_001025723

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_001025723.1](#), [NP_001020894.1](#)

RefSeq Size: 1264 bp

RefSeq ORF: 1122 bp

Locus ID: 361473

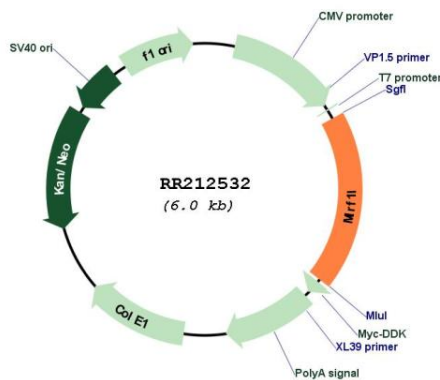
UniProt ID: [Q4V7E5](#)

Cytogenetics: 1q11

MW: 42.3 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 RR212532