

Product datasheet for **MR209138**

Mtpap (NM_026157) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mtpap (NM_026157) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mtpap
Synonyms:	0610027A18Rik; AW551379; Papd1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209138 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTGCTCGCGCGTGGGGTTATTGACCCGTTTGCCTGTGTGCCAGAGACGGAACCGAATCCCGC
 GCTCTATTTCCAGGCTCCTCAGTTGTCCAGGGACTATTGCGGCGAGCATCGGGAGCGAAGAACAGTCTTC
 GGTGGTTGCGGAAACAGGCATTGAAGACAAGACCTCCAAAAGAAATTCTCTGAGGTGCAGAAAGAGAGA
 AGAGAACAGGCCAGCGACTGTTTTGATACATTGTCCAAATAATATCAATGAGAAAAAATTTCTCAAGT
 ATTTATCCAGCATGGACCAGTCAATAATCATTCTTCTACGAGAGCTTTGGTCTCTTGTGTTGTAGA
 ATTTTGCCAAAAGACAGTATAAAGTATTGCAGAATGGAACACATACTCCAACCCAGAGCACAGAGGCT
 GCAATTCATTTAAGTACGGTCTTGAACCTAAGGCTGAAGAATCCGTCTAGCCAAGTATCTGGACAGC
 CATTTGTACAGACAACCAACCAGTACCTCCTCAAGCAAAAAGCTCTTTGAATTACTGAGTTATGCAGA
 AAGCATAGAGGAGCAGCTGAACACTCTCCTGAAGCCCTCCAGCTCACAGAAGAGAATATCAGGCTCCGC
 CATCTCACCTGCTCTGATTGAGGACATTGCTGCTGCATATTTCCAGCTGTGTATCCGGCCCTTTG
 GCTCCTCAGTGAACACATTTGGCAAATTAGGATGTGATTTGGACATGTTTTAGATCTAGATGAAACTGG
 AAAACTTGATGTTACAAGAATACAGGGAATTTTTTATGGAATTTCAAGTGA AAAACGTTCTTTCAGAA
 AGAATTGCAACCCAGAAGATCCTATCTGTAATAGGAGAGTGCCTTGACAATTTGGCCCTGGCTGTGTGG
 GTGTTCCAGAAGATACTCAATGCTCGATGTCACCTGGTGAGATTCTCCCATCAGGGCTCTGGATTCCAGTG
 TGATCTGACTGCTAACAATAGTATTGCTTTGAAAAGTTCCGAACCTTTATATATATGGCTCCCTGGAT
 TCGAGAGTAAGAGCTTTGGTGTTCAGTGTGCGATGCTGGGCTCGGGCACATTCATTAACAAGCAGTATTC
 CTGGTGTGGATTACAAACTTCTCTTAACAGTGTGTCATCTTTTTCTCCAGAGAAGATCACCTCC
 CATTCTTCCAACCTAGATTCCCTAAAGTCCATAGCAGATGCTGAAGATAGATGTATTCTAGAGGGGAAC
 AATTGTACATTCTGTCAGGATGTGAATAAAATTC AACCTTCTGGAACACAGAAACATTAGAATTAATA
 TAAAGGAATTTTTGAGTATTTGGCAATTTGCTTTCAATAAAAATTCATAAACATTCGACAGGGAAG
 GGAACAAAACAAGCCTGATTCTCTCTCTATACATCCAGAATCCTTTTGAACATCTCTCAACATAAGC
 AAAATGTCAGTCAGAGCCAGCTACAAAATTTGTGGAAGTGGCAAGAGACAGTGCCTGGATTTTGAAC
 AGGAAGATAAGAATCAGCCTTTTCTCGAGTAGGCAACCCTGGGACTGGCTGCCCTCTGCTGCCACC
 GGGGTGAGCCACACATCTCTCCCGAAGAAGAAGAAAAGCCGATGAGTAAAAAGTCAAAGGCTTG
 TTAGCATCCATAAAAAGTAAACAGCCCTGACAGTCCACAGATACCAGTGGAAAGAGAACAATTAGTACAC
 AGGCA

ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209138 protein sequence
 Red=Cloning site Green=Tags(s)

MAARGVLLTRLPVCSQRRNRIPRSISRLLSCPRTIAASIGSEEQSSVVAETGIEDKTLQKKFSEVQKER
 REQAQRTVLIHCPNNINEKFLKYLSQLGHPVNNHFFYESFGLFAYVEFCQKDSIKSLQNGHTPTQSTEA
 AIPFKSRFLNLRKLPSSQVSGQPFVQTTNQSPSSKKLFELLSYAESIEEQLNTLLKAFQLTEENIRLR
 HLTCSLIEDIAAAYFPSCVIRPFGSSVNTFGKLGCDLDMFLDLDETGLDVHKNTGNFFMEFQVKNVPSE
 RIATQKILSVIGECLDNFGPGCVGVQKILNARCPLVRFHQSGFQCDLTANNSIALKSSELLIYIGSLD
 SRVRALVFSVRCWARAHSLTSSIPGAWITNFSLTVMVIFFLQRRSPPILPTLDSLKSIADAEDRCILEGN
 NCTFVQDVNKIQPSGNTETLELLIKEFFEYFGNFAFNKNSINIRQGREQNKPDSSPLYIQNPFETSLNIS
 KNVSQSQLQKFVELARDSAWILEQEDKNQPFSSSRQPWGLAALLLPPGSGHTSLSRKPKKPKMSEKVKGL
 LASIKNSPDSSTDTSGKRTISTQA

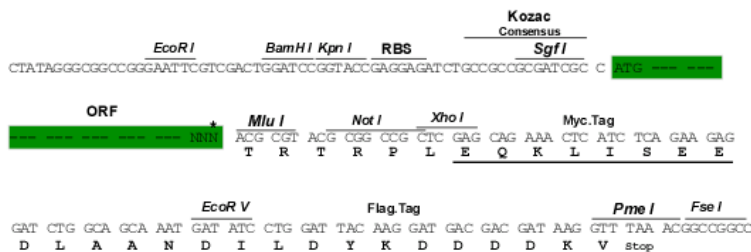
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_026157

ORF Size: 1758 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_026157.3](#)
RefSeq Size: 2651 bp

RefSeq ORF: 1758 bp

Locus ID: 67440

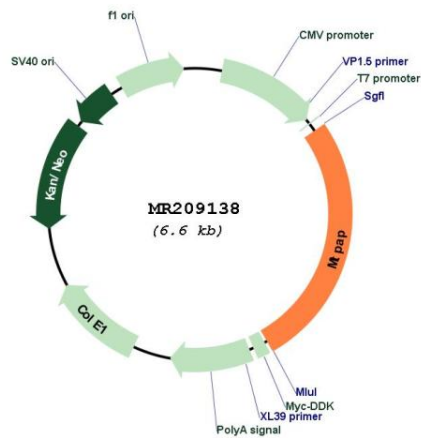
UniProt ID: [Q9D0D3](#)

Cytogenetics: 18 A1

MW: 65.2 kDa

Gene Summary: Polymerase that creates the 3' poly(A) tail of mitochondrial transcripts. Can use all four nucleotides, but has higher activity with ATP and UTP (in vitro). Plays a role in replication-dependent histone mRNA degradation. May be involved in the terminal uridylation of mature histone mRNAs before their degradation is initiated. Might be responsible for the creation of some UAA stop codons which are not encoded in mtDNA (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209138