

Product datasheet for MR206557

Mmaa (NM_133823) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mmaa (NM_133823) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mmaa
Synonyms:	2810018E08Rik; A1840684
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206557 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACTATTTCCACGCTGCTACTTTCTCCTAATCGGCGTTTACTAACCTGCCTCTCAAGAGTGCCTTCCC
CATGGCTCCTTCACTCAAGTCCCCCTGCACCGGGACCCCCAGGTGCTCTGCCAACTGTTTTGGACACCA
TTGTACTAAGAGGGTGTACTGTCTGACGGCTCAGGAGAACATTATGTGTCCAGGCAACCTTGAAGGAC
CACACAGAAGGACTTTCTGATAAAGAACAAGATTTGTGGATAGACTTTATACGGGTTTGTGAAAGGAC
AGAGAGCTTGCCTAGCGGAGGCCATAACTCTCGTGAATCAACCCATACAAGGAAGAGGGAGCTGGCTCA
GGTGTCTTGCAGAGAGTCTTAGCCCTCCAGCGGAGCAGGAGCTGCGGAACCAAGGAAAGCCCTCACA
TTTCGAGTAGGACTGTCCGGGCCCTGGTGCAGGAAAATCAACATTCATAGAATGTTTTGGGAAAATGC
TGACTGAGCAAGGGCACAGGTTATCTGTGCTAGCTGTGGATCCATCTTCTTGACCAGTGGTGGTCCCT
CTTAGGTGATAAAACCCGGATGATTGAGCTGTCAAGAGATATGAATGCCTACATCAGGCCCTCTCTACC
AGTGGGACTCTAGGAGGAGTGACAAGGACCACAAATGAAGCCATTGTGTTGTGTGAAGGAGGGGGCTATG
ACATCATTCTTATTGAAACCGTCGGTGTAGGGCAGTCGGAGTTTGTCTGTGGCTGACATGGTCGATATGTT
TGTTTTATTGCTGCCACCAGCAGGAGGGGATGAAGTGCAGGGCATCAAAGGGGCATCATTGAAATGGCA
GATTTGGTTGTTAACTAAATCTGATGGAGACTTGATTGTGCCAGCCCGCAGGATCCAAGCAGAGTACG
TGAGCGCACTCAAGTTGCTCCGTAGCGCTCGGAAGTCTGGAGGCCAAAGGTGATTGCGATTTCTGCCAG
AAGTGGAGAGGGCATCACTGAGATGTGGGACACAATGAGAGAGTTTCAGCACAAATGCTGGCCAGTGGG
GAGCTGGCTGCCAAGAGACAGACACAGCACAAAGTCTGGATGTGGAATCTCATTGAGAAAACGTCCTAG
AACACTCAAGACCCACCCAGCATCCGAGAACAGATCCCCCTGATGGAGAGAAAGGTCCTCAGTGGAGC
CCTCTCCCAGGACGAGCAGCAGACTTGTGCTAAAAGCTTTTAAAAGCAGACAC

ACGGTACGGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >MR206557 protein sequence
Red=Cloning site Green=Tags(s)

MTISTLLLSPNRRLLTCLSRVSPWLLHSSPPAPGPPGALPNCFGHHCTKRVLSDGFRRTL CVQATLKD
 HTEGLSDKEQRFVDRLYTGLVKGQRACLAEAITLVESTHTRKRELAQVLLQRVLALQREQLRNQKPLT
 FRVGLSGPPGAGKSTFIECFGKMLTEQGHRLSVLAVDPSSTSGGSLLDGKTRMIELSRDMNAYIRPSPT
 SGTLLGGVTRTTNEAIVLCEGGGYDIIIL IETVGVGQSEF AVADMVDMFVLLLPAGGDELQGIKRGIEMA
 DLVVITKSDGDLIVPARRIQAEYVSALKLLRRRSEVWRPKVIRISARSGEGITEMWDTMREFQHQLASG
 ELAAKRQTQHKVWMWNLIQENVLEHFKTHPSIREQIPLMERKVL SGALSPGRAADLLLKAFKSRH

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_133823

ORF Size: 1248 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_133823.1](#)

RefSeq Size: 2843 bp

RefSeq ORF: 1248 bp

Locus ID: 109136

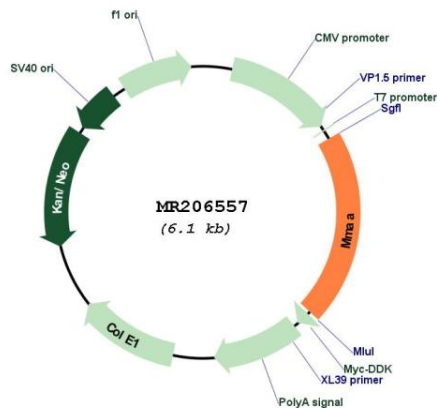
UniProt ID: [Q8C7H1](#)

Cytogenetics: 8 C1

MW: 45.9 kDa

Gene Summary: GTPase, binds and hydrolyzes GTP. Involved in intracellular vitamin B12 metabolism, mediates the transport of cobalamin (Cbl) into mitochondria for the final steps of adenosylcobalamin (AdoCbl) synthesis. Functions as a G-protein chaperone that assists AdoCbl cofactor delivery from MMAB to the methylmalonyl-CoA mutase (MMUT) and reactivation of the enzyme during catalysis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206557