

Product datasheet for **MG206557**

Mmaa (NM_133823) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mmaa (NM_133823) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Mmaa
Synonyms: 2810018E08Rik; A1840684
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG206557 representing NM_133823
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACTATTTCCACGCTGCTACTTTCTCCTAATCGGCGTTTACTAACCTGCCTCTCAAGAGTGCCTTCCC
 CATGGCTCCTTCACTCAAGTCCCCCTGCACCGGGACCCCAAGGTGCTCTGCCAACTGTTTTGGACACCA
 TTGTACTAAGAGGGTGTACTGTCTGACGGCTCAGGAGAACATTATGTGTCCAGGCAACCTTGAAGGAC
 CACACAGAAGGACTTTCTGATAAAGAACAAGATTTGTGGATAGACTTTATACGGGTTTAGTGAAAGGAC
 AGAGAGCTTGCCTAGCGGAGGCCATAACTCTCGTGAATCAACCCATACAAGGAAGAGGGAGCTGGCTCA
 GGTGCTTCTGCAGAGAGTCTTAGCCCTCCAGCGGAGCAGGAGCTGCGGAACCAAGGAAAGCCCTCACA
 TTTTCGAGTAGGACTGTCCGGGCCCTGGTGCAGGAAAATCAACATTCATAGAATGTTTTGGGAAAATGC
 TGACTGAGCAAGGGCACAGGTTATCTGTGTAGCTGTGGATCCATCTTCTTGACCAGTGGTGGTCCCT
 CTTAGGTGATAAAACCCGGATGATTGAGCTGTCAAGAGATATGAATGCCTACATCAGGCCCTCTCTACC
 AGTGGGACTCTAGGAGGAGTGACAAGGACCACAAATGAAGCCATTGTGTTGTGTGAAGGAGGGGGCATG
 ACATCATTCTTATTGAAACCGTCGGTGTAGGGCAGTCGGAGTTTGTCTGTGGCTGACATGGTCGATATGT
 TGTTTTATTGCTGCCACCAGCAGGAGGGGATGAAGTGCAGGGCATCAAAGGGGCATCATTGAAATGGCA
 GATTTGGTTGTTAACTAAATCTGATGGAGACTTGATTGTGCCAGCCCGCAGGATCCAAGCAGAGTACG
 TGAGCGCACTCAAGTTGCTCCGTAGCGCTCGGAAGTCTGGAGGCCAAAGGTGATTTCGATTTCTGCCAG
 AAGTGGAGAGGGCATCACTGAGATGTGGGACACAATGAGAGAGTTTCAGCACAAATGCTGGCCAGTGGG
 GAGCTGGCTGCCAAGAGACAGACACAGCACAAAGTCTGGATGTGGAATCTCATTGAGAAAACGTCCTAG
 AACACTTCAAGACCCACCCAGCATCCGAGAACAGATCCCCCTGATGGAGAGAAAGGTCCTCAGTGGAGC
 CCTCTCCCAGGACGAGCAGCAGACTTGTGCTAAAAGCTTTTAAAAGCAGACAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206557 representing NM_133823
 Red=Cloning site Green=Tags(s)

MTISTLLLSPNRRLLTCLSRVSPWLLHSSPPAGPPGALPNCFGHHCTKRVLSDGFRRTL CVQATLKD
 HTEGLSDKEQRFVDRLYTGLVKGQRACLAEAITLVESTHTRKRELAQVLLQRVLALQREQLRNQKPLT
 FRVGLSGPPGAGKSTFIECFGKMLTEQGHRLSVLAVDPSSTSGGSLGDKTRMIELSRDMNAYIRPST
 SGTLLGGVTRTTNEAIVLCEGGGYDIIIL IETVGVGQSEF AVADMVDMFVLLLPAGGDELQGIKRGIIEMA
 DLVVITKSDGDLIVPARRIQAEYVSALKLLRRRSEVWRPKVIRISARSGEGITEMWDTMREFQHQLASG
 ELAAKRQTQHKVWMWNLIQENVLEHFKTHPSIREQIPLMERKVL SGALSPGRAADLLLKAFKSRH

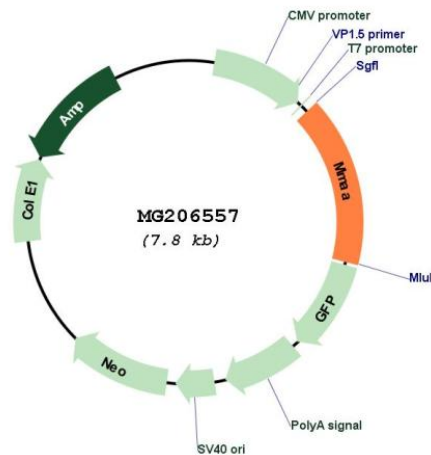
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_133823

ORF Size:	1245 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:	<ol style="list-style-type: none">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:	2824 bp
RefSeq ORF:	1248 bp
Locus ID:	109136
UniProt ID:	Q8C7H1
Cytogenetics:	8 C1
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]