

Product datasheet for **SC101283**

MMAA (NM_172250) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MMAA (NM_172250) Human Untagged Clone
Tag:	Tag Free
Symbol:	MMAA
Synonyms:	cbIA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_172250, the custom clone sequence may differ by one or more nucleotides

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ATGCCCATGCTGCTACCACATCCTCACCAGCATTTCCTAAAAGGCCTTTTAAGAGCACCTTTCCGATGTT
ACCACTTCATCTTTCACTCAAGTACTCATCTCGGATCAGGAATCCCATGTGCTCAGCCGTTTAATTCTCT
TGGACTCCATTGTACAAAGTGGATGCTGCTGTCAGATGGCTTAAAGAGAAAATTATGTGTACAAACAACC
TTAAAGGACCACACAGAAGGACTTTCTGATAAAGAGCAAAGATTTGTGGATAAACTTTATACTGGTTAA
TCCAAGGGCAAAGGGCCTGTTTAGCAGAGGCCATAACTCTGTAGAATCAACTCACAGCAGGAAAAAGGA
GTTAGCCCAGGTGCTTCTCAGAAAGTATTACTTTACCACAGAGAACAAGAACAATAAAAGGAAAA
CCACTAGCATTTTCGAGTAGGATTGTCTGGGCCCTGGTCTGGAAAATCAACATTTATAGAATATTTTG
GAAAAATGCTTACTGAGAGAGGGCACAATTATCTGTGCTAGCTGTGGACCCTTCTTCTGTACTAGTGG
TGGATCACTCTTAGGTGATAAAACCCGAATGACTGAGTTATCAAGAGATATGAATGCATACATCAGGCCA
TCTCCTACTAGAGGAACCTTAGGAGGCGTGACAAGGACCACAAATGAAGCTATTCTGTTGTGTGAAGGAG
CGGGATATGACATAAATTCTTATTGAAACCGTTGGTGTGGGTGTCAGTCGGAGTTTGTGTTGCTGACATGGT
TGACATGTTTGTCTTACTACTGCCACCAGCAGGAGGAGATGAGCTGCAGGGTATCAAAGGGGTATAATC
GAGATGGCAGATCTGGTAGCTGTAATAAATCTGATGGAGACTTGATTGTGCCAGCTCGAAGGATACAAG
CGGAATATGTGAGTGCCTGAAATTAATCCGCAACGTTTCAAGTCTGGAAACCAAAGGTAATTCGTAT
TTCTGCCCGAAGTGGAGAGGGGATCTCTGAAATGTGGGATAAAATGAAAGATTTCCAGGACCTAATGCTT
GCCAGTGGGAGCTGACTGCCAAACGACGGAAGCAACAGAAAGTTTGGATGTGGAATCTCATTAGGAAA
GTGTGTTAGAGCATTTCAGGACCCACCCACAGTCCGGGAACAGATTCCACTTCTGGAACAAAAGTTCT
CATTGGGGCCCTGTCCCCAGGACTAGCAGCAGACTTCTTGTAAAAGCTTTAAAAGCAGAGACTAA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_172250 unedited
 TGTATACGACTCATATAGGCGGCCGNAATTCGCACGAGGTGGCACTTCCGTGGCTTCG
 GGCGGGGAGGTCAACAATCACATTGAGCCAAAACGCATCCAGTGTTCCTCCAGTTACAAA
 TAAAACGAATATGCCATGCTGTACCACATCCTCACCAGCATTTCTAAAAGGCCTTTT
 AAGAGCACCTTTCCGATGTTACCACTTCATCTTCACTCAAGTACTCATCTCGGATCAGG
 AATCCCATGTGCTCAGCCGTTTAAATCTCTTGGACTCCATTGTACAAAAGTGGATGCTGCT
 GTCAGATGGCTTAAAGAGAAAATTATGTGTACAAACAACCTTAAAGGACCACACAGAAGG
 ACTTTCTGATAAAGAGCAAAGATTTGTGGATAAACTTTATACTGGTTTAAATCCAAGGCA
 AAGGGCCTGTTTAGCAGAGGCCATAACTCTTGTAGAATCAACTCACAGCAGGAAAAAGGA
 GTTAGCCAGGTGCTTCTCAGAAAATTACTTTACCACAGAGAACAAGAAACAATCAAA
 TAAAGGAAAACCACTAGCATTTTCGAGTAGGATTGTCTGGGCCCTTGGTCTGAAAAATC
 AACATTTATAGAATATTTGGAAAAATGCTTACTGAGAGAGGGCACAATATCTGTGCT
 AGCTGTGGACCCTTCTTGTACTAGTGGTGGATCACTTTAGGTGATAAAACCCGAAT
 GACTGAGTTATCAAGAGATGAATGCATACATCAGGCCATCTCCTACTAGAGGAACTTN
 TAGAGCGGTGACAGGGACCACAAATGAAGCTATTCTGTTGTGTGAAGGAGCGGGATATGA
 CATAATCTTATTGAAACCGTTGGGTGTGGTCACTCGGGAGTTGC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_172250 unedited
 TATGGGATGGCAACTTCCAGGTCCAGNAAAGCACTGGGGNAGGGTCACAGGGATGCCAC
 CCGTTATCTGTTCCAGGAAACAGCTATGACCGGGGGCGCAATCTAAAGTCGAGTTTTTTTT
 TTTTTTTTTTTTTTTTTTTTTTTTGGCGTAGAGGTTCAACTACATAAATTATCACCCGTAT
 GTTGTTTCGTTAGCTGTTGCTTTCAGTGTACTGGCAATAGCTATAAAAGCTTAAAGGAA
 ATGGCCGGGTGATCGAGTGATTCTTAAAAAAAATGCCTTGTTAGGTTGTATTGGGATAG
 CTACTGGCAACTATTGAAATAACTGCCCTATTTAATGAGATTTGATATTGTTTTAGCA
 AAATGTCTGTGAGTTTTGGAGCTCAACACATTTTTTCTATCTACAGAAGTTAATGGGA
 ATCATATTCTTGACAAGGCAAAGTGAACCTATGAGATTTTTTTCAAAATTATCTTTTTAA
 AATGGACTGTGACTCGTTTAACTCCTCATAACAGTTCTAAGAGATAACTCCCCTTCT
 GGAAAATATATTTACCACCCGGGATCAGCCCCAATTCGCAAAAACACCCCCACC
 CGGCCCTTAAAATTTCCCAACAAAAACCCCCATTACGCGCACGGGCCCGAACCCCC
 AAACAAACCACGGGGCCCTCCCCCGCAAAAACCCCCAGGGCACGCCCCCCCCCTAC
 AAAACCCCCAGAACCCCCCATAAAACCCCTATCAAAATCCCCGACTCCCCCCCCAA
 ATTAGACCCCCCGCCCCAGCTCCATAAAAATTCGGAATAAACCCCCAACCCCAACC
 CCCCAGCAATATATACCCATTAGCCCCCCCCCCCCCCCCCCCCCATT

Restriction Sites:

NotI-NotI

ACCN:

NM_172250

Insert Size:

4700 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_172250.1 , NP_758454.1
RefSeq Size:	1473 bp
RefSeq ORF:	1257 bp
Locus ID:	166785
UniProt ID:	Q8IVH4
Cytogenetics:	4q31.21
Protein Families:	Druggable Genome
Gene Summary:	<p>The protein encoded by this gene is involved in the translocation of cobalamin into the mitochondrion, where it is used in the final steps of adenosylcobalamin synthesis. Adenosylcobalamin is a coenzyme required for the activity of methylmalonyl-CoA mutase. Defects in this gene are a cause of methylmalonic aciduria. [provided by RefSeq, Jul 2008]</p>