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Product datasheet for SC316303

MMACHC (NM_015506) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MMACHC (NM_015506) Human Untagged Clone
Tag:	Tag Free
Symbol:	MMACHC
Synonyms:	cblC
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene sequence for NM_015506 edited
ATGGAGCCGAAAGTCGCAGAGCTGAAGCAGAAGATCGAGGACACGCTATGTCCTTTTGGC
TTCGAGGTTTACCCCTTCCAGGTGGCATGGTACAATGAACTCTTGCCTCCAGCCTTCCAC
CTACCGCTGCCAGGACCTACCCTGGCCTTCCTGGTACTCAGCACGCCTGCCATGTTTGAC
CGGGCCCTCAAGCCCTTCTTGCAGAGCTGCCACCTCCGAATGCTGACTGACCCAGTGGAC
CAGTGTGTGGCCTACCATCTGGGCCGTGTTAGAGAGAGCCTCCCAGAGCTGCAGATAGAA
ATCATTGCTGACTACGAGGTGCACCCCAACCGACGCCCCAAGATCCTGGCCCAGACAGCA
GCCCATGTAGCTGGGGCTGCTTACTACTACCAACGACAAGATGTGGAGGCTGACCCATGG
GGGAACCAGCGCATATCAGGTGTGTGCATACACCCCCGATTTGGGGGCTGGTTTGCCATC
CGAGGGGTAGTGCTGCTGCCAGGGATAGAGGTGCCAGATCTGCCACCCAGAAAACCTCAT
GACTGTGTACCTACAAGAGCTGACCGTATCGCCCTACTCGAAGGCTTCAATTTCCACTGG
CGTGATTGGACTTACCGGGATGCTGTGACACCCCAGGAGCGCTACTCAGAAGAGCAGAAG
GCCTACTTCTCCACTCCACCTGCCCAACGATTGGCCCTATTGGGCTTGGCTCAGCCCTCA
GAGAAGCCTAGTTCTCCCTCCCCGGACCTTCCCTTTACCACACCCGCCCCCAAGAAGCCT
GGGAATCCCAGCAGAGCCCGGAGCTGGCTCAGCCCCAGGGTCTCACCACCTGCATCCCCT
GGCCCTTGATTTTCTCCCATGTGGACCCTGATTTATGGTGGTACTTGCTAGGACTTAATT
GGCTTTGGCAAAGCAAAAGGTTTTGAGTACAAGATTACTATTTTTGATAATATAGTAGAG
ATCTTCCATGAAGATAACAAGACTATCTCTAATCAAGGCTAGAACCAAGGGAAGGCTAAG
AATTGCCCAGTACTGTGCAACTACGAAAGCCCTACCCAAGGCCACCAGCCTTGTCTTCCT
CTTTCCTCTGTCAGTTCAAAAAGAACAGAAACCTCCAGCTCTTTTACATAGCAGGTACCA
GGCATTTATCAGAAGAGGCCAAGCTTCTGGTTCCCATGCAGCCCTTTGAATAGTGTGTCT
AAACAAAAATAGGTGTCCAAGTAGTCACACTGAGACTTTAACTGGTAACCCAGCCTGTGG
CGTCAGTCGCAGTGCTCTGGCCAACACTATAGCAGGGCTTATTCTTCTCCCTCATGTGTA
GTGAAACAAAATGTAACACCTTGGGTTCATTCAGTTCCATTCCCTATATCTACCTGTGTC
AATATAATTCCCTGATTTGGAGGCAGCTCTCCTCATTTTCCCCAAAACAGGGAAAGCAAG
GAGTAAATTCCTCTTAAAATCAAAAGCTAATAATATGCTTCCTAAAATAAAGACTCATCA
AGGTCTCAGTTCAAGTTTAAAAAAAAAAAAAAAAAA

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_015506 unedited
GTGCACTTGTATACGACTCCTATAGGGCGGCCGCGAATTCGGCACGAGGATGGAGCCGAA
AGTCGCAGAGCTGAAGCAGAAGATCGAGGACACGCTATGTCCTTTTGGCTTCGAGGTTTA
CCCCTTCCAGGTGGCATGGTACAATGAACTCTTGCCTCCAGCCTTCCACCTACCGCTGCC
AGGACCTACCCTGGCCTTCCTGGTACTCAGCACGCCTGCCATGTTTGACCGGGCCCTCAA
GCCCTTCTTGCAGAGCTGCCACCTCCGAATGCTGACTGACCCAGTGGACCAGTGTGTGGC
CTACCATCTGGGCCGTGTTAGAGAGAGCCTCCCAGAGCTGCAGATAGAAATCATTGCTGA
CTACGAGGTGCACCCCAACCGACGCCCCAAGATCCTGGCCCAGACAGCAGCCCATGTAGC
TGGGGCTGCTTACTACTACCAACGACAAGATGTGGAGGCTGACCCATGGGGGAACCAGCG
CATATCAGGTGTGTGCATACACCCCCGATTTGGGGGCTGGTTTGCCATCCGAGGGGTAGT
GCTGCTGCCAGGGATAGAGGTGCCAGATCTGCCACCCAGAAAACCTCATGACTGTGTACC
TACAAGAGCTGACCGTATCGCCCTACTCGAAGGCTTCAATTTCCACTGGCGTGATTGGAC
TTACCGGGATGCTGTGACACCCCAGGAGCGCTACTCAGAAGAGCAGAACGCCTACTTCTC
CACTCCACCTGCCCAACGATTGGCCCTATTGGGCTTGGCTCAGCCCTCAGAGAAGCCTAG
TTCTCCCTCCCCGACCTTCCCTTTACCACACCCGCCCCCAGAAGCCTGGGAATCCCAGCA
GAGCCCGGAGCTGGCTCAGCCCCAGGGTCTCACCACCTGCATCCCCTGGCCCTTGATTTT
TCTCCCATGTG

3' Read Nucleotide Sequence:

>Forward primer walk for NM_015506 unedited
CCCCGTACAGGGGGCCGGTTTGCCTCCGGGGGTAGCGCTTGCTTGCCAGGGATAGAGGTG
CCAGACTCTGCCACCCAGAAAACCTCATGACTGTGTACCTACAAGAGCTGACCGTATCGC
CCTACTCGAAGGCTTCAATTTCCACTGGCGTGATTGGACTTACCGGGATGCTGTGACACC
CCAGGAGCGCTACTCAGAAGAGCAGAAGGCCTACTTCTCCACTCCACCTGCCCAACGATT
GGCCCTATTGGGCTTGGCTCAGCCCTCAGAGAAGCCTAGTTCTCCCTCCCCGGACCTTCC
CTTTACCACACCCGCCCCCAAGAAGCCTGGGAATCCCAGCAGAGCCCGGAGCTGGCTCAG
CCCCAGGGTCTCACCACCTGCATCCCCTGGCCCTTGATTTTCTCCCATGTGGACCCTGAT
TTATGGTGGTACTTGCTAGGACTTAATTGGCTTTGGCAAAGCAAAAGGTTTTGAGTACAA
GATTACTATTTTTGATAATATAGTAGAGATCTTCCATGAAGATAACAAGACTATCTCTAA
TCAAGGCTAGAACCAAGGGAAGGCTAAGAATTGCCCAGTACTGTGCAACTACGAAAGCCC
TACCCAAGGCCACCAGCCTTGTCTTCCTCTTTCCTCTGTCAGTTCAAAAAGAACAGAAAC
CTCCAGCTCTTTTACATAGCAGTACCAGGCATTTATCAGAAGAGGCCAAGCTTCTGGTTC
CCATGCAGCCCTTTGAATAGTGTGTCTAAACAAAAATAGGTGTCCAAGTAGTCACACTGA
GACTTTAACTGGTAACCCAGCCTGTGGCGTCAGTCGCAGTGCTCTGGCCAACACTATAGC
AGGCTTATTCTTCTCCCTCATGTGTAGTGAAACAAAAT

Restriction Sites: Please inquire

ACCN: NM_015506

Insert Size: 1500 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).

OTI Annotation: The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.NA

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_015506.1, NP_056321.1
RefSeq Size:	2247 bp
RefSeq ORF:	849 bp
Locus ID:	25974
UniProt ID:	Q9Y4U1
Cytogenetics:	1p34.1
Gene Summary:	The exact function of the protein encoded by this gene is not known, however, its C-terminal region shows similarity to TonB, a bacterial protein involved in energy transduction for cobalamin (vitamin B12) uptake. Hence, it is postulated that this protein may have a role in the binding and intracellular trafficking of cobalamin. Mutations in this gene are associated with methylmalonic aciduria and homocystinuria type cblC. [provided by RefSeq, Oct 2009] Transcript Variant: This variant (1) encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The extent of this transcript is supported by transcript alignments.