

Product datasheet for MR202551

Mmachc (NM_025962) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mmachc (NM_025962) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mmachc
Synonyms:	1810037K07Rik; Cb1C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR202551 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTTGACAGAGCCCTCAAACCCTTCTTAAAGAGCTGCCACTTCCAACACTGAGAGACCCGGTGGATC
AATGTGTGTCCTACCACCTGAGGAGTGTTACAGAGAAGTTCCAGAAGTGCATATGGAAGTCATTGCTGA
CTATGAGGTACCCCCAATCGGCGACCTAAGATTCTCGCCGACAGCAGCCCATGTGGCAGGTGCTGCT
TATTACTACCAACGACAAGATGTGGATGCAGACCCATGGGGACCCAGCACATAGCAGGTGTGTGCATAC
ACCCCGATTTGGGGCTGGTTTGCCATCCGAGGGTTATGTTGCTGCCAGGGATTGAAGTGCCAAATTT
GCCACCCAGAAAGCCCCCTGACTGTGTGCTACAAGAGCTGGCCGCATCACTCTGCTTGAAGTTTCAAT
TTCCATTGGCGGGACTGGACTTACCGTGATGCTGTGACTCCTGAAGAACGGTACTCCGAAGAACAGAAGA
TCTACTTTCCACCCACCTGCCAACGCTTGGCCCTATTAGGCTTAGCCCAACCCTCAGAACACCCCTAG
CACTACATCTGAGCTTCTTCTTTCTTGTCTACTAAACCTCAGAATTCAGGAGAGCTCGAAGCTGGCTG
AGTCCAAGTGTCTACCACCTGTATCCCCAGGCCCT

ACGCGTACGCGGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR202551 protein sequence
 Red=Cloning site Green=Tags(s)

MFDRALKPFLKSCHFQTLRDPVDQCVSYHLRSVTEKFPEVHMEVIADYEVHPNRRPKILAQTAAHVAGAA
 YYYQRQDVPDADPWGTQHIAGVCIHPRFGGWFAIRGVMLLPGIEVNLPPRKPPDCVPTRAGRITLLEGFN
 FHWRDWTYRDVAVTPEERYSEEQKIYFSTPPAQRLLALLGLAQPSEHPSTTSELPLSLLTKQPNSRRARSWL
 SPSVSPPVSPGP

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_025962

ORF Size: 669 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_025962.2](#)

RefSeq Size: 1950 bp

RefSeq ORF: 840 bp

Locus ID: 67096

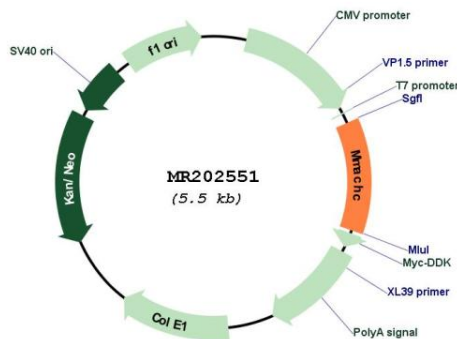
UniProt ID: [Q9CZD0](#)

Cytogenetics: 4 D1

MW: 25.2 kDa

Gene Summary: Catalyzes the reductive dealkylation of cyanocobalamin to cob(II)alamin, using FAD or FMN as cofactor and NADPH as cosubstrate. Can also catalyze the glutathione-dependent reductive demethylation of methylcobalamin, and, with much lower efficiency, the glutathione-dependent reductive demethylation of adenosylcobalamin. Under anaerobic conditions cob(I)alamin is the first product; it is highly reactive and is converted to aquocob(II)alamin in the presence of oxygen. Binds cyanocobalamin, adenosylcobalamin, methylcobalamin and other, related vitamin B12 derivatives.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR202551