

# Recombinant Full Length Human MMACHC Protein, GST-tagged

**Cat. No.** MMACHC-6386HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| <b>Product Overview</b> | Human MMACHC full-length ORF ( AAH06122.3, 1 a.a. - 225 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>ProteinLength</b>    | 225 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | 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] |
| <b>Molecular Mass</b>   | 51.7 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>AA Sequence</b>      | MFDRALKPFLQSCHLRMLTDPVDQCVAYHLGRVRESLPQLQIEIIADYEVHPNRRPKI<br>LAQTAAHVAGAAYYYQRQDVEADPWGNQRISGVCIHPRFGGWFAIRGVVLLPGIEV<br>PDLPPRKPHDCVPTRADRIALLEGFNFHWRDWTYRDAVTPQERYSEEQKAYFSTPP<br>AQRLALLGLAQPSEKPSSPSPDLPFTTPAPKKPGNPSRARSWLSPRVSPASP GP                                                                                                                                                                                                                             |
| <b>Applications</b>     | Antibody Production                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                         | Functional Study<br>Compound Screening                                                                                                                                                                     |
| <b>Notes</b>            | Best use within three months from the date of receipt of this protein.                                                                                                                                     |
| <b>Storage</b>          | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.                                                                                                                                   |
| <b>Storage Buffer</b>   | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                                                                                   |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                            |
| <b>Gene Name</b>        | MMACHC methylmalonic aciduria (cobalamin deficiency) cblC type, with homocystinuria [ Homo sapiens ]                                                                                                       |
| <b>Official Symbol</b>  | MMACHC                                                                                                                                                                                                     |
| <b>Synonyms</b>         | MMACHC; methylmalonic aciduria (cobalamin deficiency) cblC type, with homocystinuria; methylmalonic aciduria and homocystinuria type C protein; cblC; DKFZP564I122; FLJ25671; RP11-291L19.3; DKFZp564I122; |
| <b>Gene ID</b>          | 25974                                                                                                                                                                                                      |
| <b>mRNA Refseq</b>      | NM_015506                                                                                                                                                                                                  |
| <b>Protein Refseq</b>   | NP_056321                                                                                                                                                                                                  |
| <b>MIM</b>              | 609831                                                                                                                                                                                                     |
| <b>UniProt ID</b>       | Q9Y4U1                                                                                                                                                                                                     |

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