

## Recombinant Human ME2 Protein, GST-tagged

Cat. No. ME2-4488H Lot. No. (See product label)

### SPECIFICATION

|                         |  |
|-------------------------|--|
| <b>Product Overview</b> | Human ME2 full-length ORF (BAG36189.1, 1 a.a. - 584 a.a.) recombinant protein with GST-tag at N-terminal.  |
| <b>Species</b>          | Human  |
| <b>Source</b>           | Wheat Germ   |
| <b>Description</b>      | This gene encodes a mitochondrial NAD-dependent malic enzyme, a homotetrameric protein, that catalyzes the oxidative decarboxylation of malate to pyruvate. It had previously been weakly linked to a syndrome known as Friedreich ataxia that has since been shown to be the result of mutation in a completely different gene.<br>[provided by RefSeq]   |
| <b>Molecular Mass</b>   | 90.64 kDa  |
| <b>AA Sequence</b>      | <pre> MLSRLRVVSTTCTLACRHLHIKEKKGKPLMLNPRTNKGMAFTLQERQMLGLQGLLPP KIETQDIQALRFHRNLKMTSPLEKYIYIMGIQERNEKLFYRILQDDIESLMPIVYTPTV GLACSQYGHIFRRPKGLFISISDRGHVRSIVDNWPENHVKAVVVTGGERILGLGDLG VYGMGIPVVKLCLYTACAGIRPDRCLPVCIDVGTDNIALLKDPFYMGLYQKRDRTQQ YDDLIDEFMKAITDRYGRNTLIQFEDFGNHNAYRFLRKYREKYCTFNDDIQGTAVAL AGLLAAQKVISKPISEHKILFLGAGEAALGIANLIVMSMVENGLSEQEAQKKIWMFDKY GLLVKGRKAKIDSYQEPFTHSAPESIPDTFEDAVNILKPSTIIGVAGAGRLFTPDVIRA MASINERPVIFALSNPTAQAECTAEEAYTLTEGRCLFASGSPFGPVKLTGDRVFTPG QGNNVYIFPGVALAVILCNTRHISDSVFLEAAKALTSQTLDEELAQGRLYPPLANIQEV           </pre> |

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|                       |   |
|-----------------------|---|
|                       | SINIAIKVTEYLYANKMAFRYPEPEDKAKYVKERTWRSEYDSLPLDVPYEWPEASASP<br>PVITE   |
| <b>Applications</b>   | Enzyme-linked Immunoabsorbent Assay<br>Western Blot (Recombinant protein)<br>Antibody Production<br>Protein Array |
| <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.  |

## GENE INFORMATION

|                        |   |
|------------------------|---|
| <b>Gene Name</b>       | ME2 malic enzyme 2, NAD(+)-dependent, mitochondrial [ Homo sapiens ]  |
| <b>Official Symbol</b> | ME2   |
| <b>Synonyms</b>        | ME2; malic enzyme 2, NAD(+)-dependent, mitochondrial; NAD-dependent malic enzyme, mitochondrial; NAD-ME; malate dehydrogenase; pyruvic-malic carboxylase; ODS1; |
| <b>Gene ID</b>         | 4200  |
| <b>mRNA Refseq</b>     | NM_001168335  |
| <b>Protein Refseq</b>  | NP_001161807  |
| <b>MIM</b>             | 154270  |

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