

## Product datasheet for TP319389

### ME2 (NM\_002396) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human malic enzyme 2, NAD(+)-dependent, mitochondrial (ME2), nuclear gene encoding mitochondrial protein, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC219389 representing NM_002396 Red=Cloning site Green=Tags(s)

MLSRLRVSTTCTLACRHLHIKEKGKPLMLNPRTNKGMFTLQERQMLGLQGLLPPKIETQDIQALRFHR  
NLKKMTSPLEKYIYIMGIQERNEKLFYRILQDDIESLMPIVYPTVGLACSYGHIFRRPKGLFISISDR  
GHVRSIVDNWPENHVKAVVVDGERILGLGDLGVYGMGIPVGKLCLYTACAGIRPDRCLPVCIDVGTDNI  
ALLKDPFYMGLYQKRDRRTQQYDDLIDEFMKAITDRYGRNTLIQFEDFGNHNAFRFLRKYREKYCTFNDDI  
QGTAVALAGLLAAQKVISKPISEHKILFLGAGEAALGIANLIVMSMVENGLSEQEAQKKIWMFDKYGLL  
VKGRKAKIDSYPFTHSAPESIPDTFEDAVNILKPSTIIGVAGAGRLFTPDVIRAMASINERPVIFALS  
NPTAQAECTAEEAYLTEGRCLFASGSPFGPVKLT DGRVFTPGQGNVYIFPGVALAVILCNTRHISDSV  
FLEAAKALTSQTLDEELAQGRLYPLANIQEVSINIAIKVTEYLYANKMAFRYPEPEDKAKYVKERTWRS  
EYDSLLPDVYEWPEASSPPVITE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	63.4 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** [NP\\_002387](#)

**Locus ID:** 4200

**UniProt ID:** [P23368](#)

**RefSeq Size:** 2730

**Cytogenetics:** 18q21.2

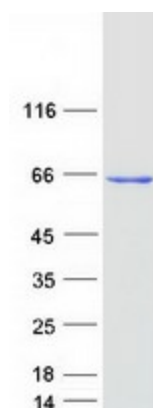
**RefSeq ORF:** 1752

**Synonyms:** ODS1

**Summary:** 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. Certain single-nucleotide polymorphism haplotypes of this gene have been shown to increase the risk for idiopathic generalized epilepsy. Alternatively spliced transcript variants encoding different isoforms found for this gene. [provided by RefSeq, Dec 2009]

**Protein Pathways:** Pyruvate metabolism

### Product images:



Coomassie blue staining of purified ME2 protein (Cat# TP319389). The protein was produced from HEK293T cells transfected with ME2 cDNA clone (Cat# [RC219389]) using MegaTran 2.0 (Cat# [TT210002]).