

## Product datasheet for **RC206820**

### ME1 (NM\_002395) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ME1 (NM_002395) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ME1
Synonyms:	HUMNDME; MES
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC206820 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGCCCGAAGCCCCCGTCGCCCCACACCCATCAGCGCGGCTACCTGCTGACACGGAACCCTCACC  
 TCAACAAGGACTTGGCCTTTACCCTGGAAGAGAGACAGCAATTGAACATTCATGGATTGTTGCCACCTTC  
 CTTCAACAGTCAGGAGATCCAGGTTCTTAGAGTAGTAAAAAATTCGAGCATCTGAACTCTGACTTTGAC  
 AGGTATCTTCTTAATGGATCTCCAAGATAGAAATGAAAACTCTTTATAGAGTGCTGACATCTGACA  
 TTGAGAAATTCATGCCTATTGTTTATACTCCCACTGTGGGTCTGGCTTGCCAACAATATAGTTTGGTGT  
 TCGGAAGCCAAGAGGTCTCTTTACTATCCACGATCGAGGCGCATATTGCTTCAGTTCTCAATGCATGG  
 CCAGAAGATGTCATCAAGGCCATTGGTACTGATGGAGAGCGTATTCTGGCTGGGAGACCTGGCT  
 GTAATGGAATGGGCATCCCTGTGGTAAATTGGCTCTATACAGCTTGGGAGGGATGAATCCTCAAGA  
 ATGCTGCCTGTCATTCTGGATGTGGGAACCGAAAATGAGGAGTACTTAAAGATCCACTCTACATTGGA  
 CTACGGCAGAGAAGAGTAAAGAGTTCTGAATATGATGATTTTTGGACGAATTCATGGAGGCAGTTCTT  
 CCAAGTATGGCATGAATTGCCTTATTCAGTTTGAAGATTTTGCCAATGTGAATGCATTTCTGCTCCTGAA  
 CAAGTATCGAAACCAGTATTGCACATTCATGATGATTTCAAGGAACAGCATCTGTTGCAGTTGCAGGT  
 CTCCTTGACGCTCTTGAATAACCAAGAACAACCTGTCTGATCAAACAATACTATTCGAAGGAGCTGGAG  
 AGGCTGCCTAGGGATTGCACACCTGATTGTGATGGCCTTGAAAAAGAAGGTTTACCAAAAGAGAAAGC  
 CATCAAAAAGATATGGCTGGTTGATTCAAAGGATTAATAGTTAAGGGACGTGCTTCCTTAACACAAGAG  
 AAAGAGAAGTTTGCCCATGAACATGAAGAAATGAAGAACCTAGAAGCCATTGTTCAAGAAATAAAACCAA  
 CTGCCCTCATAGGAGTTGCTGCAATTGGTGGTGCATTCTCAGAACAATCTCAAAGATATGGCTGCCTT  
 CAATGAACGCGCTATTATTTTTGCTTTGAGTAATCCAACCTAGCAAAAGCAGAATGTTCTGCAGAGCAGTGC  
 TACAAAATAACCAAGGGACGTGCAATTTTTGCCAGTGGCAGTCCTTTTGATCCAGTCACTCTTCAAATG  
 GACAGACCCTATATCCTGGCCAAGGCAACAATTCCTATGTGTTCCCTGGAGTTGCTCTTGGTGTGTTGGC  
 GTGTGGATTGAGGCAGATCACAGATAATTTTTCTCACTACTGCTGAGGTTATAGCTCAGCAAGTGCA  
 GATAAACACTTGAAGAGGGTCGGCTTTATCCTCCTTTGAATACCATTAGAGATGTTTCTGAAAATTG  
 CAGAAAAGATTGTAAAGATGCATACCAAGAAAAGACAGCCACAGTTTATCCTGAACCGCAAAACAAAGA  
 AGCATTGTCCGCTCCAGATGTATAGTACTGATTATGACCAGATTCTACCTGATTGTTATCTTGGCCT  
 GAAGAGGTGCAGAAAATACAGACCAAAGTTGACCAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC206820 protein sequence  
 Red=Cloning site Green=Tags(s)

MEPEAPRRRHTHQRYLLTRNPHLNKDLAFTLEERQQLNIHGLLPPSFNSQEIQVLRVVKNFHLSDFD  
 RYLLMLDQDRNEKLFYRVLTSDIEKFMPVYVTPVGLACQQYSLVFRKPRGLFITIHDRGHIASVLNAW  
 PEDVIKAIIVVTDGERILGLDLCNGMIPVGLALYTACGMNPQECLPVILDVGTENEELLKDPLYIG  
 LRQRRVRGSEYDDFLDEFMEAVSSKYGMNCLIQFEDFANVNAFRLLNKYRNQYCTFNDDIQGTASVAVAG  
 LLAALRITKNKLSQITILFQAGEAALGIAHLIVMALEKEGLPKEKAIKKIWLVDKGLIVKGRASLTQE  
 KEKFAHEHEEMKNLEAIVQEIKPTALIGVAAIGGAFSEQILKDMAAFNERPIIFALSNTSKAECSAQC  
 YKITKGRAIFASGSPFDPVTLPNGQTLYPGQGNNSYVFPGVALGVVACGLRQITDNIPLTTAEVIAQQVS  
 DKHLEEGRLYPPLNTIRDVSLKIAEKIVKDAYQEKTATVPEPQNKEAFVRSQMYSTDYDQILPDCYSWP  
 EEVQKIQTQVDQ

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6162\\_d01.zip](https://cdn.origene.com/chromatograms/mk6162_d01.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**

**ACCN:** NM\_002395

**ORF Size:** 1716 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

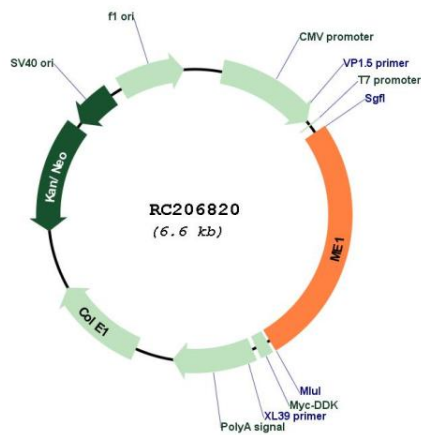
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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.

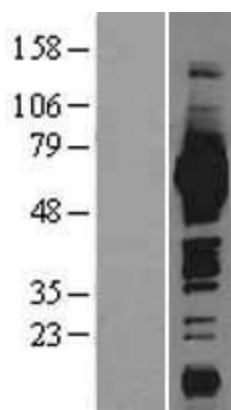
**RefSeq:** [NM\\_002395.6](#)  
**RefSeq Size:** 3519 bp  
**RefSeq ORF:** 1719 bp  
**Locus ID:** 4199  
**UniProt ID:** [P48163](#)  
**Cytogenetics:** 6q14.2  
**Domains:** malic  
**Protein Pathways:** Metabolic pathways, PPAR signaling pathway, Pyruvate metabolism  
**MW:** 64.1 kDa

**Gene Summary:** This gene encodes a cytosolic, NADP-dependent enzyme that generates NADPH for fatty acid biosynthesis. The activity of this enzyme, the reversible oxidative decarboxylation of malate, links the glycolytic and citric acid cycles. The regulation of expression for this gene is complex. Increased expression can result from elevated levels of thyroid hormones or by higher proportions of carbohydrates in the diet. [provided by RefSeq, Jul 2008]

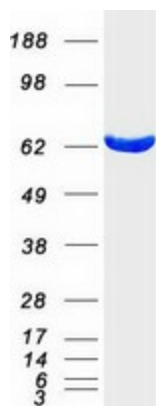
### Product images:



Circular map for RC206820



Western blot validation of overexpression lysate (Cat# [LY400854]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206820 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ME1 protein (Cat# [TP306820]). The protein was produced from HEK293T cells transfected with ME1 cDNA clone (Cat# RC206820) using MegaTran 2.0 (Cat# [TT210002]).