

Product datasheet for **RG206820**

ME1 (NM_002395) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ME1 (NM_002395) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ME1
Synonyms:	HUMNDME; MES
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG206820 representing NM_002395
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGCCCGAAGCCCCCGTCGCCCCACCCATCAGCGCGGCTACCTGCTGACACCGAACCCCTCACC
 TCAACAAGGACTTGGCCTTTACCCTGGAAGAGAGACAGCAATTGAACATTCATGGATTGTTGCCACCTTC
 CTTCAACAGTCAGGAGATCCAGGTTCTTAGAGTAGTAAAAAATTCGAGCATCTGAACTCTGACTTTGAC
 AGGTATCTTCTTAATGGATCTCCAAGATAGAAATGAAAACTCTTTATAGAGTGCTGACATCTGACA
 TTGAGAAATTCATGCCTATTGTTTATACTCCACTGTGGGTCTGGCTTGCCAACAATATAGTTTGGTGTT
 TCGGAAGCCAAGAGGTCTCTTTACTATCCACGATCGAGGGCATATTGCTTCAGTTCTCAATGCATGG
 CCAGAAGATGTCATCAAGGCCATTGTGGTACTGATGGAGAGCGTATTCTGGCTGGGAGACCTGGCT
 GTAATGGAATGGGCATCCCTGTGGTAAATTGGCTCTATACAGCTTGGGAGGGATGAATCCTCAAGA
 ATGCTGCCTGTCATTCTGGATGTGGAAACCGAAAATGAGGAGTACTTAAAGATCCACTCTACATTGGA
 CTACGGCAGAGAAGAGTAAGAGGTTCTGAATATGATGATTTTTGGACGAATTCATGGAGGCAGTTTCTT
 CCAAGTATGGCATGAATTGCCTTATTCAGTTTGAAGATTTTGCCAATGTGAATGCATTCGTCCTCTGAA
 CAAGTATCGAAACCAGTATTGCACATTCATGATGATTTCAAGGAACAGCATCTGTTGCAGTTGCAGGT
 CTCCTTGACGCTCTTGAATAACCAAGAACAACCTGTCTGATCAAACAATACTATTCGAAGGAGCTGGAG
 AGGCTGCCCTAGGATTGCACACCTGATTGTGATGGCCTTGAAAAAGAAGGTTTACCAAAAAGAGAAAGC
 CATCAAAAAGATATGGCTGGTTGATTCAAAAGGATTAATAGTTAAGGGACGTGCTTCCTTAACACAAGAG
 AAAGAGAAGTTTGCCCATGAACATGAAGAAATGAAGAACCTAGAAGCCATTGTTCAAGAAATAAAACCAA
 CTGCCCTCATAGGAGTTGCTGCAATTGGTGGTGCATTCTCAGAACAATCTCAAAGATATGGCTGCCTT
 CAATGAACGGCCTATTATTTTTGCTTTGAGTAATCCAACCTAGCAAAGCAGAATGTTCTGCAGAGCAGTGC
 TACAAAATAACCAAGGGACGTGCAATTTTTGCCAGTGGCAGTCCTTTTGATCCAGTCACTCTTCAAATG
 GACAGACCCTATATCCTGGCCAAGGCAACAATTCCTATGTGTTCCCTGGAGTTGCTCTTGGTGTGTTGGC
 GTGTGGATTGAGGCAGATCACAGATAATTTTTCTCACTACTGCTGAGGTTATAGCTCAGCAAGTGTC
 GATAAACACTTGAAGAGGGTCGGCTTTATCCTCCTTTGAATACCATTAGAGATGTTTCTGAAAATTG
 CAGAAAAGATTGTAAAGATGCATACCAAGAAAAGACAGCCACAGTTTATCCTGAACCGCAAAACAAAGA
 AGCATTGTCCGCTCCAGATGTATAGTACTGATTATGACCAGATTCTACCTGATTGTTATTCTTGGCCT
 GAAGAGGTGCAGAAAATACAGACCAAAGTTGACCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG206820 representing NM_002395
 Red=Cloning site Green=Tags(s)

MEPEAPRRRHHQRGYLLTRNPHLNKDLAFTLEERQQLNIHGLLPPSFNSQEIQVLRVVKNFELNSDFD
 RYLLMLDLQDRNEKLFYRVLTSIEKFMPIVYPTVGLACQQYSLVFRKPRGLFITIHDRGHIASVLNAW
 PEDVIKAIVVTDGERILGLDLCNGMIPVGLALYACGGMNPQECLPVILDVGTENEELLKDPLYIG
 LRQRRVRGSEYDDFLDEFMEAVSSKYGMNLIQFEDFANVNAFRLLNKYRNQYCTFNDDIQGTASVAVAG
 LLAALRITKNKLSQDITLFGAGEAALGIAHLIVMALEKEGLPKEKAIKKIWLVDKGLIVKGRASLTQE
 KEKFAHEHEEMKNLEAIVQEIKPTALIGVAAIGGAFSEQILKDMAAFNERPIIFALSNPSTKAECSAEQC
 YKITKGRAIFASGSPFDPVTLPNGQLYPGQGNSYVFPGVALGVVACGLRQITDNIFLTTAEVIAQQVS
 DKHLEEGRLYPPLNTRDVSLEKIAEKIVKDAYQEKTATVYPEPQNKEAFVRSQMYSTDYDQILPDCYSWP
 EEVQKIQTQVDQ

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

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 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: 3360 bp

RefSeq ORF: 1719 bp

Locus ID: 4199

UniProt ID: [P48163](#)

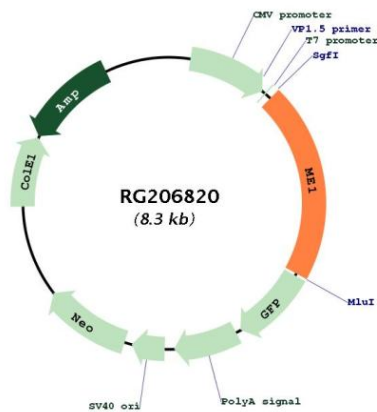
Cytogenetics: 6q14.2

Domains: malic

Protein Pathways: Metabolic pathways, PPAR signaling pathway, Pyruvate metabolism

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 RG206820