

Product datasheet for **RC228973**

ME3 (NM_001161586) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ME3 (NM_001161586) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ME3
Synonyms:	NADP-ME
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC228973 representing NM_001161586
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGTGCCGCTGGGGACAGGCACGGCTGGCTCCCTGGCCGGCCGGCCCTGCGGCGCCCTCCCGC
 GCTGGACACCCACGCGCCCGCCAAGGCTGCCACTCCAAGCCTGGCCCGCGCCCTGTGCCCTGAA
 GAAGCGGGATACGATGTCACCAGGAACCTCATCTCAACAAGGGATGGCCTTTACCCTTGAAGAAAGG
 CTGACGCTTGGAAATCCACGGCCTAATCCCGCCCTGCTTTCTGGGCCAGGACGCTCCAGCTCCTCCGAATCA
 TGGGATATTACGAGCGGCAGCAGAGTGACCTGGACAAGTACATCATTCTCATGACACTCCAAGACCGGAA
 CGAGAAGCTTTCTACCGAGTGTGACTTCGGATGTGGAGAAGTTCATGCCAATCGTGTACACGCCTACC
 GTGGGGCTGGCCTGTGACACTATGGCCTGACTTTCCGACGGCCCGTGGACTGTTTCATCACCATTTCATG
 ACAAGGTTCATTTGCAACAATGCTGAATTCCTGGCCAGAAGACAATATTAAGGCCGTGGTGGTACTGA
 TGGGGAGCGCATCCTGGGCTGGGAGACCTGGGCTGCTACGGCATGGGCATCCCTGTGGGCAAGCTGGCC
 CTGTACACGGCATGCGGAGGGGTGAACCCGACAGTGCCTCCCTGTGCTGTGGACGTGGCACCACA
 ATGAGGAGCTGCTCAGAGACCCTCTGTACATCGGCCTGAAACACCAGCGCGTGCACGGGAAGGCATACGA
 TGACTTGTGGATGAGTTCATGCAGGCTGTGACAGACAAGTTTGAATAAATTGCCTCATCCAATTTGAA
 GACTTCGCAATGCCAATGCCTTCCGCCTGCTCAACAAATACCGTAACAAGTACTGCATGTTCAATGATG
 ACATCCAAGGCACAGCCTCCGTTGTGTGGCAGGGATCTGGCTGCTCTGCGAATCACCACAACAAGCT
 TTCCAATCACGTGTTTGTTCCTCAAGGTGCAGGCGAGGACGCTATGGCATTGCCACCTCCTGTGATG
 GCCCTAGAGAAAGAAGGTGTACGAAGGCAGAGGCCACAAGAAAGATCTGGATGGTGGACTCTAAAGGGC
 TCATTGTCAAGGGGAGGAGCCACTGAACCATGAAAAGGAGATGTTTGCCCAAGACCCTCTGAAGTCAA
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 TTCACGGAGCAGATTCTGAGGGACATGGCCTCCTTCCACGAGCGCCATCATCTTTGCCCTGAGCAACC
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 TGGAAGTCTTTTAAAGAGTGTGACTCTGGAAGATGGCAAGACCTTCATTCTGGGAGGGAAACAATGCT
 TACGTGTTCCCGGGGTGGCACTGGGAGTATCGCCGGCGGGATCCGGCACATCCAGATGAGATCTTCC
 TCCTGACAGCAGACAAATTGCCAGGAAGTCTCTGAGCAGCATCTGTCCAGGGGAGACTCTATCCACC
 ACTCAGCACCATCCGAGACGTGCTTTGAGAATTGCCATCAAAGTTCTCGACTACGCGTACAACACAAC
 CTGGCTTCTACTACCCAGAGCCTAAGGACAAGGAGGCTTTTGTAAAGTCCCTGGTCTACTACTCCAGACT
 ATGACTCTTTACTACTGGACAGTACACTTGGCCCAAGGAAGCCATGAATGTTTCAGACGGTC

AG**GCGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

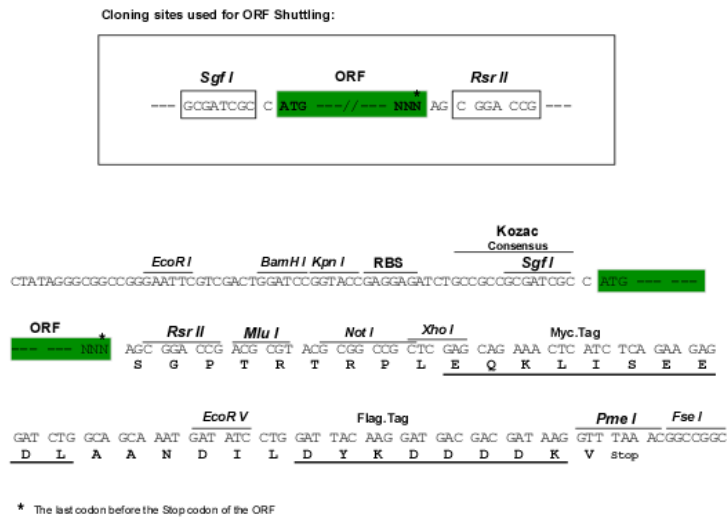
>RC228973 representing NM_001161586
 Red=Cloning site Green=Tags(s)

MGAALGTGTRLAPWPGRACGALPRWTPTAPAQGCHSKPGPARPVPLKKRGYDVTRNPHLNKGMAFTLEER
 LQLGIHGLIPPCFLGQDVQLLRIMGYERQQSDLDKYIILMTLQDRNEKLFYRVLTSDEKFMPIVYTP
 VGLACQHYGLTFRRPRGLFITIHDKGHLATMLNSWPEDNIKAVVVDGERILGLGDLGCGYMGIPVGKLA
 LYTACGGVNPQQCLPVLLDVGTNNEELLRDPLYIGLKHQRVHGKAYDDLDEFMQAVTDKFGINCLIQFE
 DFANANAFRLLNKYRNKCMFNDDIQGTASVAVAGILALRITNKNLSNHVVFVQGAGEAAMGIAHLLVM
 ALEKEGVPKAEATRKIWMVDSKGLIVKGRSHLNHEKEMFAQDHPEVNSLEEVVRLVKPTAIGVAAIAGA
 FTEQILRDMASFHERPIIFALSNPTSKAECTAEKCYRVTEGRGIFASGSPFKSVTLEDGKTFIPGQGNNA
 YVFPGVALGVIAGGIRHIPDEIFLLTAEQIAQEYSEQLHSQGRLYPPLSTIRDVSLRIAIAIKVLDYAYKHN
 LASYYPEPKDKEAFVRSLVYTPDYDSFTLDSYWPKEAMNVQTV

SGP**TRRRLEQKLI**SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-RsrII

Cloning Scheme:

ACCN: NM_001161586

ORF Size: 1812 bp

OTI Disclaimer: 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.

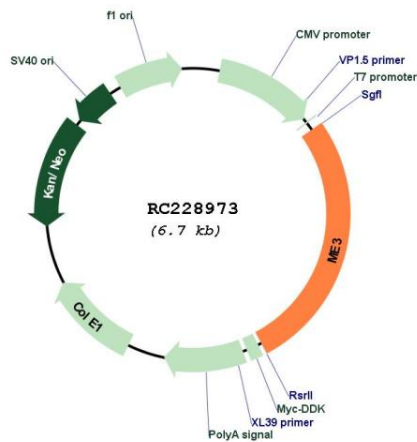
RefSeq: [NM_001161586.1](#), [NP_001155058.1](#)
RefSeq ORF: 1815 bp

Locus ID: 10873

UniProt ID: [Q16798](#)
Cytogenetics: 11q14.2

Protein Pathways:	Metabolic pathways, Pyruvate metabolism
MW:	66.9 kDa
Gene Summary:	Malic enzyme catalyzes the oxidative decarboxylation of malate to pyruvate using either NAD ⁺ or NADP ⁺ as a cofactor. Mammalian tissues contain 3 distinct isoforms of malic enzyme: a cytosolic NADP(+)-dependent isoform, a mitochondrial NADP(+)-dependent isoform, and a mitochondrial NAD(+)-dependent isoform. This gene encodes a mitochondrial NADP(+)-dependent isoform. Multiple alternatively spliced transcript variants have been found for this gene, but the biological validity of some variants has not been determined. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC228973