

## Product datasheet for **RG224151**

### ME3 (NM\_006680) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ME3 (NM_006680) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ME3
Synonyms:	NADP-ME
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG224151 representing NM\_006680  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGTGCCGCGCTGGGACAGGCACGGCTGGCTCCCTGGCCGGCCGGCCCTGCGGCGCCCTCCCGC  
 GCTGGACACCCACGCGCCCGCCAAGGCTGCCACTCCAAGCCTGGCCCGCGCGCCCTGTGCCCTGAA  
 GAAGCGCGGATACGATGTCAACAGGAACCTCATCTCAACAAGGGGATGGCCTTTACCCTTGAAGAAAGG  
 CTGCAGCTTGAATCCACGGCCTAATCCCGCCCTGCTTTCTGAGCCAGGACGTCCAGCTCCTCCGAATCA  
 TGAGATATTACGAGCGGCAGCAGAGTGACCTGGACAAGTACATATTCTCATGACTCCAAGACCGGAA  
 CGAGAAGCTTTCTACCGAGTGTGACTTCGGACGTGGAGAAGTTCATGCCAATCGTGTACACGCCTACC  
 GTGGGGCTGGCCTGTGAGCACTATGGCCTGACTTCCGACGGCCCGTGGACTGTTTCATCACCATTTCATG  
 ACAAAGGTCATCTTGAACAATGCTGAATTCTTGGCCAGAAGACAATATTAAGGCCGTGGTGGTACTGA  
 TGGGGAGCGCATCTGGGCTGGGAGACCTGGGCTGCTACGGCATGGGCATCCCTGTGGCAAGCTGGCC  
 CTGTACACGGCATGCGGAGGGGTGAACCCGACAGTGCCTCCCTGTGCTGCTGGACGTCCGCACCAACA  
 ATGAGGAGCTGCTCAGAGACCCTCTGTACATCGGCCTGAAACACCAGCGGTGCACGGGAAGGCATACGA  
 TGACTTGTGGATGAGTTCATGCAGGCTGTGACAGACAAGTTTGAATAAATTGCCTCATCAATTTGAA  
 GACTTCGCAATGCCAATGCCTTCCGCCTGCTCAACAAATACCGTAACAAGTACTGCATGTTCAATGATG  
 ACATCCAAGGCACAGCCTCCGTTGCTGTGGCAGGGATCTTGGCTGCTCTGCGAATCACCAAGAACAAGCT  
 TTCCAATCACGTGTTTGTTCCTCAAGGTGCAGGCGAGGCAGCTATGGGCATTGCCACCTCCTTGTGATG  
 GCCCTAGAGAAAGAAGGTGTACCGAAGGCAGAGGCCACAAGAAAGATCTGGATGGTGGACTCTAAGGGC  
 TCATTGTCAAGGGGAGGAGCCACTGAACCATGAAAAGGAGATGTTTGCCCAAGACCATCCTGAAGTCAA  
 CTCCTTGAGGAGGTGGTGAAGCTGGTGAAGCCACAGCCATCATAGGTGTTGCTGCCATCGCAGGAGCC  
 TTCACGGAGCAGATTCTGAGGGACATGGCCTCCTTCCACGAGCGCCCTATCATCTTTGCCCTGAGCAACC  
 CCACCAGCAAGGCCGAGTGCACGGCTGAGAAGTGTACCGGGTACCGAGGGCCGAGGGATTTTGGCCAG  
 TGGAAAGTCTTTAAGAGTGTGACTCTGGAAGATGGCAAGACCTTCATTCTGGCAGGGAAACAATGCT  
 TACGTGTTCCCGGGGTGGCACTGGGAGTCATCGCCGGCGGGATCCGGCACATCCAGATGAGATCTTCC  
 TCCTGACAGCAGAGCAAATTGCCAGGAAGTCTCTGAGCAGCATCTGTCCAGGGGAGACTTACCCACC  
 ACTCAGCACCATCCGAGACGTGCTTTGAGAATTGCCATCAAAGTTCTCGACTACGCGTACAAACACAAC  
 CTGGCTTCTACTACCCAGAGCCTAAGGACAAGGAGGCTTTTGTAAAGATCCCTGGTCTACTACTCCAGACT  
 ATGACTCCTTTACTGAGACAGTACACTTGGCCCAAGGAAGCCATGAATGTTTCAGACGGTC

AG**CGGACCG**ACGCGT**ACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Restriction Sites:**

Sgfl-RsrII

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:


**ACCN:** NM\_006680

**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\\_006680.2](#), [NP\\_006671.2](#)
**RefSeq Size:** 2090 bp

**RefSeq ORF:** 1815 bp

**Locus ID:** 10873

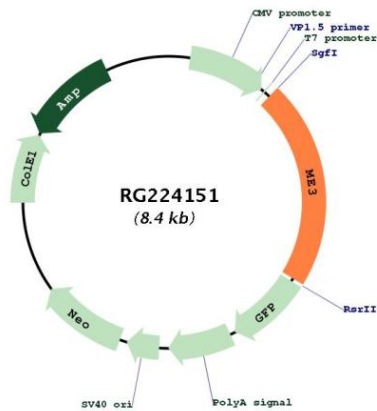
**UniProt ID:** [Q16798](#)
**Cytogenetics:** 11q14.2

**Domains:** malic

**Protein Pathways:** Metabolic pathways, Pyruvate metabolism

**Gene Summary:** Malic enzyme catalyzes the oxidative decarboxylation of malate to pyruvate using either NAD<sup>+</sup> or NADP<sup>+</sup> 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 RG224151