

Product datasheet for **RR203845**

Me1 (NM_012600) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Me1 (NM_012600) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Me1
Synonyms:	MOD1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR203845 representing NM_012600
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGATCCCCGAGCCCCCGACGCCGACACGCCACCAGCGGGCTACCTGCTGACGCGGGACCCGCATC
 TCAACAAGGACTTGGCTTTACTCTGGAAGAGAGGCAACAGCTGAACATTCATGGCTTGTGCCACCCTG
 CATTGTCAACCAGGAGATCCAGGTCCTTAGAGTAATTAAGAATTCGAGCGTCTGAACTCTGACTTCGAC
 AGGTATCTTCTGTTAATGGATCTGCAAGATAGGAATGAGAAGCTTTCTACAGTGTCTTATGTCTAATG
 TTGAAAAGTTCATGCCTATCGTTTACACTCCACCCTGGGTCTTGCATGCCAACAATACAGTTTGGCATT
 CCGGAAGCCAAGAGCCCTTTATCAGTATCCACGACAAAGGCCATATTGCTTCAGTTCTTAACGCATGG
 CCAGAAGATGTTGCAAGGCTATTGTGGTACTGATGGAGAGCGAATCCTCGGCTGGGCGACCTTGGTT
 GTAACGGGATGGGCATCCCTGTGGTAACTGGCCCTGTACACAGCGTCCGGAGGGGTGAATCCACAACA
 GTGTCTACCCATCACTTTGGACGTGGGCACAGAAAATGAGGAGTACTTAAAGATCCCTTGTATATTGGG
 CTGCGGCACAGGCGAGTGAGAGGCCCTGAATATGATGCGTTTTTGGATGAATTCATGGAGGCAGCGTCTT
 CCAAAATATGGCATGAATTGCCTTATTCAGTTTGAAGATTTTGCCAATCTGAATGCATTTCTGCTCCTGAA
 CAAGTATCGAAACAAGTATTGCACATTTAACGATGATATTCAAGGAACAGCGTCTGTGGCAGTTGCCGGC
 CTTCTTGTCTCTTCGGATAACCAAGAACAAGCTCTCTGATCAGACAGTGTCTTCCAGGGAGCCGGCG
 AGGCTGCCTTGGGGATTGCTCATCTGATTGTTATGGCCATGGAGAAGGAAGGTTTATCAAAGGAGAAAGC
 TAGACAAAAGATATGTTGGTTGACTCAAAGGATTAATAGTTAAGGGCGTGTCTCTCACAGAAGAG
 AAAGAGGTGTTTGGCCATGAACATGAAGAAATGAAGAACCTAGAAGCCATTGTTTCAGAAGATAAAACCAA
 CCGCTCTCATAGGAGTTGCTGCAATTGGTGGTCTTTTACAGAACAATTTCTCAAGGATATGGCTGCCTT
 CAACGAGCGGCCCATCATCTTTGCTTTGAGTAATCCGACCAGCAAAGCTGAGTGTCTGCAGAGGAGTGC
 TATAAAGTGACCAAGGGCCGTGCGATCTTTGCCAGCGGAGTCCCTTTGATCCAGTCACTCTTCCAGATG
 GACGGACTCTGTTTCTGGCCAAGGCAACAACCTATGTGTTCCCTGGAGTTGCTCTTGGGGTAGTGGC
 CTGTGGACTGAGACACATCAATGATTCGGTCTTCTCACCACGGCTGAGGTCATATCCAGCAAGTGTCA
 GATAAACACCTAGAAGAAGGCGGCTCTATCCTCCTTTGAACACCATCCGAGATGTTTCTTGAAAATCG
 CAGTAAAGATTGTCAAGATGCATACAAAGAAAAGATGGCCACTGTTTATCCTGAACCCCAAAACAAGA
 AGAATTTGTCTCCTCCAGATGTACAGCACTAATTATGACCAGATCCTACCTGATTGTTATTCGTGGCCT
 GAAGAAGTCCAGAAAATACAGACCAAAGTCAATCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR203845 representing NM_012600
 Red=Cloning site Green=Tags(s)

MDPRAPRRRHAHQRYGLLTRDPHLNKDLAFTLEERQQLNIHGLLPPCIVNQEIQVLRVIKNFERLNSDFD
 RYLLMLDQDRNEKLFYSVLMSNVEKFMPIVYTPVGLACQQYSLAFRKPRGLFISIHDKGHIASVLNAW
 PEDVVKAIYVTDGERILGLGDLGCNGMGIPVGKLALYACGGVNPQQCLPITLDVGTENEELLKDPYIG
 LRHRRVRGPEYDAFLDEFMEAASSKYGMNCLIQFEDFANLNAFRLLNKYRNKYCTFNDDIQGTASVAVAG
 LLAALRITKNKLSQTVLFQGAGEAALGIAHLIVMAMEKEGLSKEKARQKIWLVDKGLIVKGRASLTEE
 KEVFAHEHEEMKNLEAIVQKIKPTALIGVAAIGGAFTEQILKDMAAFNERPIIFALSNPTSKAECSAEEC
 YKVTKGRAIFASGSPFDPVTLPDGRTLFPQGNNYSVFPGVALGVVACGLRHINDSVFLTTAEVISQQVS
 DKHLEEGRLYPPLNTIRDVSLKIAVKIVQDAYKEKMATVYPEPQNKEEFVSSQMYSTNYDQILPDCYSWP
 EEVQKIQTQVNVQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

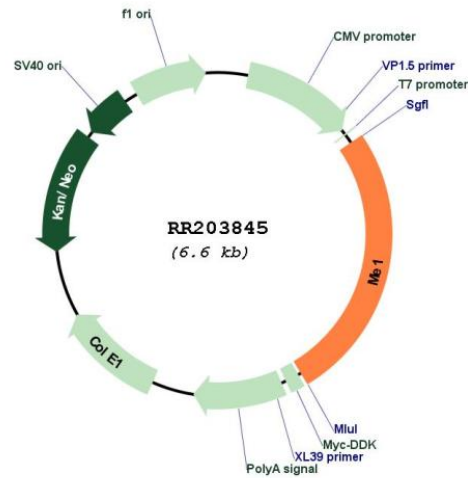
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_012600
 ORF Size: 1716 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:	<ol style="list-style-type: none">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_012600.2 , NP_036732.2
RefSeq Size:	3075 bp
RefSeq ORF:	1719 bp
Locus ID:	24552
Cytogenetics:	8q31
MW:	64 kDa
Gene Summary:	catalyzes the NADP+ dependent conversion of S-malate to pyruvate [RGD, Feb 2006]