

Product datasheet for **RR203299**

Mrc1 (NM_001106123) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mrc1 (NM_001106123) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Mrc1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR203299 representing NM_001106123
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGACTCCCCCTGCTCCTGGCTTTTATCTCTGTGATTCCGGTCGCTGTTCAACTCTGGACTCACGGC
AATTTTTAATCTATAATGAGGACCACAAGCGCTGCGTGGACGCTCTAAGCGCCATCTCCGTTCAGACGGC
AACTTGAACCCGGAAGCTGAATCCCAGAAATTCGCTGGGTGTCGGAGTCCGAGATCATGAGTGTGCT
TTCAAATTTGTGTTTGGGGTGCCATCGAAAACGACTGGGCTCCGTCACCTGTATGCCTGCGACTCGA
AAAGTGAATTTAGAAATGGGAGTGTAAAAACGACACTCTTTGGAATCAAGGGCACAGAGCTATATTT
TAAGTATGGCAACAGGCAAGAAAAGAATATCAAGCTTTACAAAGTTCCGGTTTGTGGAGCAGATGGAAG
GTCTACGGGACCACAGATGACCTGTGCTCTAGGGGATATGAAGCCATGTACTCCTTACTGGCAATGCAA
ACGGAGCTGTCTGTGCATTTCCATTCAAGTTTAAAAACAAGTGGTACGACAGACTGCACCTCTGCCGGCG
GTCAGATGGATGGCTCTGGTGTGGAACCACCCTGACTATGACACCGACAAGCTGTTGGATTTGTCCA
CTGCAGTTTGGGGCAGCAAGAGGCTGTGAATACAGACCCACTGACTGGCATTCTTTACCAGATAAACT
CCAAGTCTGCCTAACCTGGCACCAGGCAAGAGCAAGCTGCAAGCAGCAGAAATGCTGAGCTCCTGAGTGT
CACGGAGATTCAGAGCAGATGTACCTCACAGGATTGACCAAGTTCCTTGACCTCTGGACTCTGGATTGGA
CTCAACAGTTTAAAGTTTAAAGCACTGGCTGGCAGTGGGCTGGGGGAAGCCATTCCGGTATCTGAACTGGC
TACCAGGAAGTCCATCATCAGAACCTGGAAAGAGCTGTGTGCTACTAAACCCTGGAAAAAATGCCAAGTG
GGAAATCTGGAATGTGTTTCAAGAACTGGCTACATTTGTAAAAAAGGCAACAATACTTTGAATCCATTT
ATCATTCCCTCGAAAGTGATGTGCTACTGCCTGCCCTAATCAGTGGTGGCCCTATGCAGGCCACTGCT
ACAGGATCTACAGGGAAGAGAAGAATCCAGAAATACGCTTTGCAAGCCTGTAGGAAGGAGGGTGGTGA
CCTGGCAAGTATCCACAGCATTGAGGAGTTTGACTTCACTCTCCAGCTAGGATACGAGCCAAATGAT
GAGCTGTGATTGGTTTAAATGACATCAAGATTCAGATGACTTTGAGTGGAGCGATGGGACCCCGGTGA
CATTTACTAAATGGCTTCCCGGAGAGCCGAGCCATGAGAACAACAGGCAGGAGGACTGCGTGGTGATGAA
AGGGAAGGATGGATACTGGGAGATAGAGCTTGTGAGCAACCCTGGGTTACATCTGTAAGATGGTCTCA
CAAATCCACTGTAATACCAGAGGGTGCAGAAAAAGGCTGCCGAAAGGCTGGAACCGCATGGGTTTT
ACTGCTACTTGATTGGATCCACCCTTCAACGTTTCGCTGATGCAAACCAACATGCACAAATGAGAAGGC
TTATTTGACAACAGTTGAAGACAGATATGAACAAGCATTCTGACTAGTTTGGTTGGATTGAGGCCTGAA



[View online >](#)

AAATATTTTTGGACAGGACTCTCAGATGTTCAAAAACAAAGGGACGTTTTCCGGTGGACTGTGGACGAGCAGG
 TGCAGTTTACACACTGGAACGCTGACATGCCAGGACGAAAGGCAGGATGCGTTGCTATGAAAACCTGGAGT
 GGCAGGTGGTTTATGGGATGTTTTGAGTTGTGAAGAAAAGGCAAAATTTGTGTGCAAACTGGGCAGAA
 GGAGTAACTCGTCCACCAGAGCCCAACAACCTCTGAACCCAAATGTCCAGAAGACTGGGGTACCACCA
 GTAAAACCAGCATGTGTTTCAAGCTGTATGCAAAAAGGAAAACATGAAAAGAAAACGTGGTTTGTAGTCTCG
 AGATTTTTGCAAAGCTATTGGGGGAGAGCTGGCGAGCATCAAGAGTAAAGATGAACAGCAAGTGTCTCG
 AGGCTGATTACGAGCAGTGAAGCTACCATGAGCTGTTTTGGCTGGGACTGACCTATGGAAGTCCTTCAG
 AGGGGTTACCTGGAGTGATGGTTCTCCTGTTTCTATGAAAATGGGCTTATGGAGAGCCAAATAATTA
 CCAAAACGTTGAATATTGTGGTGAAGTTGAAAGGTGACCCCGCATGTCCTGGAATGATATTAAGTGTGAA
 CACCTCAACAACCTGGATCTGTCAGATCCAAAAGGAAAAACTACTACCCGAGCCTACACCCGCTCCTC
 AAGACAATCCACCAGTACTGCAGATGGTGGTTATTTACAAAGACTACCAGTACTATTTAGCAAGGA
 GAAGGAAACCATGGACAACGCGCGGCCCTTCTGCAAGAAGATTTTGGTGTCTTGTACCATTAAGC
 GAAAGTAAAAGAAGTTCTGTGAAAATATAAACAAGAATGGTGGCAGTACCAGTATTTTATTGGCC
 TGTGATCAGCTTGATAAAGAATTCAATTTGGATGGACGGAAGCAAAGTCGATTTTGTAGCTTGGGCTAC
 GGGGAAACCAACTTTGCAAATGATGATGAAAACCTGTGTAAATGTACAAAATTCAGGGTTCTGGAAT
 GATATCAACTGCGGTTATCCAAATAACTTCATCTGCCAGCGACATAATAGCAGCATCAATGCCACTGCCA
 TGCCCTACCACACCCCAACTCCAGGTGGCTGCAAGGAAGTTGGCATTGTACAACAACAAGTGCTTTAA
 AATTTTTGGGTTTGTGAAGAAGAGAAAAGACCTGGAAGAGGCACGGAAGCTTGCATAGGATTGAAA
 GGAAACCTGGTGTCCATAGAGAAATGCAAAAAGCAAGCATTGTCACTTATCACATGAGAGACTCCACTT
 TCAACGCTGGACTGGACTGAATGACGTCAACTCAGAGCACACGTTTCTTTGGACAGACGGACGAGGAGT
 TCATTATACAACTGGGGAAAGGCTATCCCGCGGAAGGAGAAGCAGTCTGTCGTACGAAGATGTTGAC
 TGTGTTGTGATTGGTGGCAATTCACGAGAGGCAGGGACCTGGATGGATAGCAGCTGTGACAGTAAAC
 AAGGCTATATGCCAAAACACAGACCCACTTCTGTGCCTATCTCCAACACGCGCAAAAAGATGG
 CTTTGTAAAGTATGGTAAAAGCAGCTATGCCCTTATGAAATTGAAGTCGCCATGGCACGAAAGCAGAGAAA
 TACTGCAAGGATCGTACTTCCCTGCTTGCAGCATTCTTGACCCCTATAGTAATGCATTTGCATGGATGA
 AAATGCACCCATTAATGTACCCATATGGATTGCCCTGAACAGCAACTTGACCAACAATGAGTACTTGTG
 GACAGATAAATGGAGGTGCGGTACTAACTGGGAACTGATGAACCAAGCTTAAGTCAGCATGCGTT
 TACATGGATGTCGATGGCTACTGGAAGACATCATACTGCAATGAAAGCTTTTACTTTCTGTCAAAAAAT
 CAGACGAAATCCCGCTACGGAACCCACAGCTGCCTGGCAAATGTCCAGAGTCAGAGCAAACCTGCGTG
 GATCCCTTCCACGGCCACTGTTACTACATTGAATCTTCTTTACAAGGAGTTGGGGTCAAGCCTCCCTG
 GAGTGCCTTCGAATGGTGCCTCCCTGGTTCCATCGAGACTGCTGCCGAATCCAGTTTTCTGTACATACC
 GTGTTGAACCTCTTAAAAGTAAAACCAATTTTTGGATAGGCATGTTCCGAAATGTTGAAGGAAAGTGGCT
 TTGGTTGAATGACAATCCTGTGTCTTTGTCAACTGGAACCGGGTGACCCTTCGGGTGAACGGAATGAT
 TGTGTAGTTCTATCTTACTTCTGGCCTTTGGAATAATATCCACTGTACTTCAACAAAGGATTTATTT
 GTAAAAAGCAAAAATTATTGATCCTGTAACACTACATTCATCTATTACAACCAAGCTGACCAAAAGGAA
 GATGGATCCTCAACCAAGGGCTCTTCAAAGCAGCGGGAGTGGTCATCGTGGTCTTCTGATTGTGATA
 GGTGCCGTGTTGCGGCCTATTTCTTTTACAAGAAAAGGCGTGTACTGCACATACCTCAAGAGGCCACCT
 TTGAAAACACTCTACTTCAACAGTAATCCAAGTCTGGAACAAGTGACACGAAAGATCTCGTGGGCAA
 CATCGAACAGAATGAGCATGCGGTCATT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR203299 representing NM_001106123
 Red=Cloning site Green=Tags(s)

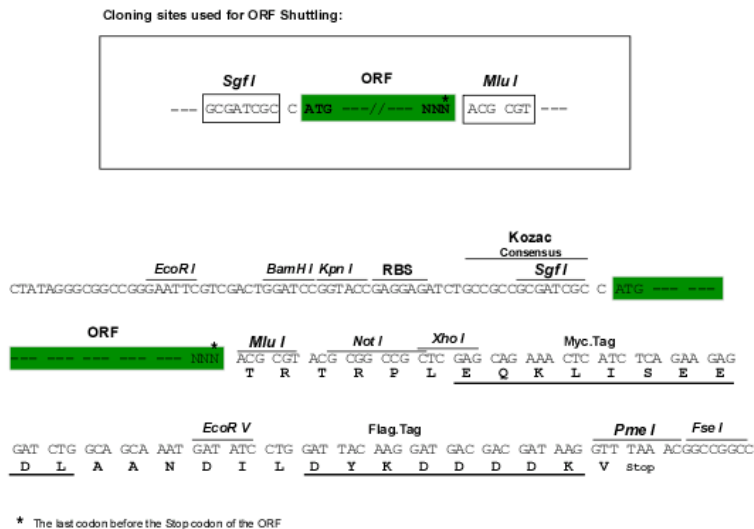
MRLPLLLAFISVIPVAVQLLDSRQFLIYNEDHKRCVDALSAISVQTATCNPEAESQKFRWVSESQIMSVA
 FKLCLGVPSKTDWASVTLYACDSKSEFQKWECKNDTLFGIKGTELYFNNGNRQEKNIKLYKGSGLWSRWK
 VYGTDDDLCSRGEAMYSLLGNANGAVCAFPFKFENKWAYADCTSAGRSDGWLWCGTTTDDYDTKLFGFCP
 LQFEGSKRLWNTDPLTGILYQINSKSLTWHQARASCKQQNAELLSVTEIHEQMYLTGLTSSLTSGLWIG
 LNSLSLSTGWQWAGGSPFRYLNWLPGPSSEPGKSCVSLNPGKNAKWENLECVQKLG YICKGNNTLNPF
 IIPSESDVPTACPNQWVPYAGHCYRIYREEKKIQKALQACRKEGGDLASIHSEIEFDFIFSQLGYPEPND
 ELWIGLNDIKIQMYFEWSDGTPVFTFKWLPGEPSHENNRQEDCVVMKGDGYWADRACEQLGYICKMVS
 QIHTVIPEGAEKGCRKGWKRHGFYCYLIGSTLSTFADANQCTNEKAYLTTVEDRYEQALFTSLVGLRPE
 KYFWTGLSDVQNKGTFRWTVDEQVQFTHWNADMPGRKAGCVAMKTGVAGGLWDVLSCEEKAKFVCKHWAE
 GVTRPPEPTTTPPKCPEDWGTTSKTSKCFKLYAKGHEKKTWFESRDFCKAIGGELASIKSKDEQQVIW
 RLITSSGSYHELFWLGLTYGSPSEGFTWSDGSPVSYENWAYGEPNNYQNVVEYCGELKGDPGMSWINDINCE
 HLNWVICQIQKGTLLPEPTPAPQDNPPVTADGWVIYKDYQYYFSKEKETMDNARAFCKNFGDLATIKS
 ESEKFLWKYINKNGGQSPYF IGLLLISLKKFIWMDGSKVDFVAWATGEPNFANDDENCVTMYTNSGFWN
 DINCGYPNNFICQRHSSINATAMPTTPTPGGCKEGWHLNKKCFKIFGFAEEKKTWKEARKACIGLK
 GNLVSIENAKEQAFVYHMRDSTFNAWTGLNDVNSEHTFLWTDGRGVHYTNWKGYPGRRSSLSYEDVD
 CVVVIIGNSREAGTWMDDSTCDKQGYICQTQTDPSVIPSPPTAPKDGFKYKGSYALMKLSPWHEAEK
 YCKDRTSLLASILDYPYNAFAWMKMPFNVPWIWIALNSNLTNNEYTWTDKWRVRYTNWGTDEPKLSACV
 YMDVDGYWKTSYCNESFYFLCKKSDIPEPPQLPGKPESEQTAWIPFHGHCYIIESSFTRSWGQASL
 ECLRMGASLVSIETAESSFLSYRVEPLKSKTNFWMFRNVEGKWLWLNNDNVPVFNWKTGDPGSRERND
 CVVLSSSSGLWNNIHCTSYKGFICKMPKIIDPVTTSSITTKADQRKMDPQPKGSSKAAGVVIVLLI
 VIGAGVAAYFFYKRRVLIHPQEATFENTLYFNSNPSPGTSDTKDLVGNIEQNEHAVI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

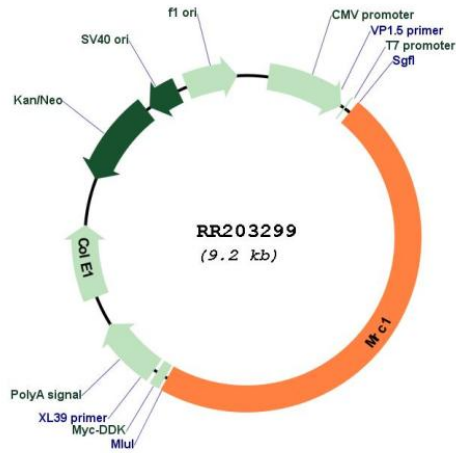
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001106123

ORF Size: 4368 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_001106123.2](#), [NP_001099593.2](#)

RefSeq Size: 5233 bp

RefSeq ORF: 4371 bp

Locus ID: 291327

Cytogenetics: 17q12.3

MW: 165 kDa