

Product datasheet for **RR210572**

Mier1 (NM_001131012) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mier1 (NM_001131012) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mier1
Synonyms:	RGD1562337
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR210572 representing NM_001131012
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGAGCCATCTGTTGAGTCTTCAAGTCCAGGGGCTCAGCAGCGTCAGAGGACCATGAGTTTGATC
 CGTCAGCTGACATGCTGGTTCATGATTTTGATGATGAGCGAACATTAGAAGAAGAAGAAATGATGGAAGG
 AGAGACAAACTTCAGTTCTGAAATAGAGGATCTTGCGAGGGAAGGCGACATGCCAATCGACGAGCTTCTC
 AGCCTCTATGGTTATGGCAGCACTGTTCAAGTACCTGAAGAGGAGGAGGAGGAGGAAGAAGAGGAGGAAG
 AAGGTGAAGATGATGAAGATGCGGACAATGATGACAACAGTGGCTGCAGTGGGAAAAATAAAGAAGAGAA
 TATAAAGGATTCATCGGGTCAGGAGGATGAAACTCAGTCTTCCAATGATGATCCCTCACAGTCTGTTACT
 TCCAAGATGCTCAGGAAATAATCCGCCACGTCGATGTAATATTTTGATACAAATAGTAAATAGAAG
 AAGAATCTGAAGAAGATGAAGATTATATCCCTCAGAAGACTGGAAAAAGGAAATCATGGTAGGCTCCAT
 GTTTCAGCTGAGATCCAGTTGGCGTTTGTAGATACAAAGAAAATGAAAAAGTGTATGAAAATGATGAT
 CAGCTTCTGTGGGATCCAGAATATTTACAGAAGATAAAGTGATTGTCTTTCTTAAGGATGCATCTAGAA
 GAACAGGGGATGAGAAAGGTGTAGAAGCAATTCCTGAAGGATCTCATATAAAAGACAATGAACAGGCTTT
 ATATGAATTGGTTAAATGCAGTTTTGATACAGAAGAAGCCTTGAGAAGACTGAGATTTAATGTCAAAGCA
 GCTCGAGAGGAATTATCTGTGTGGACAGAGGAAGAATGTAGAAAATTTGAAACAAGGGCTGAAGGCCATG
 GGAAAGATTTTCATCTGATTCAGGCTAATAAAGTCCGAACAAGATCAGTTGGTGAATGTGTAGCATTCTA
 TTACATGTGAAAAAGTCTGAGCGTTATGATTTCTTTGCTCAGCAACAAGGTTTGGAAAAAGAAATAT
 AATCTTCATCCTGGTGTAAACGGATTACATGGATCGTCTTTGGATGAAAGTGAAGTGTCTGCTTCTAGCC
 GAGCACCATCCCTCCTCCACCGCCTCAAACAGTAGTACCAGCCAGTCGGAGAAAAGACGGCAGTGTCT
 CAGCAATAGCAATCAGAATGGTGTGTCTAATGGACCAGGAGAAATACTAAACAAGAAGAAGTAAAA
 GTTGAAGGCTTACATGTTAATGGACCAACAGGTGGAATAAGAAACCACTTCTTACAGATGTGGACACTA
 ATGTTTACGAAGAAAATAACCTTGCCACTGACCAAAAACCTGCCCATATGACTGCAAGAAATGAAAATGA
 TTTTGTGAAAAAATGAGAGACCTGCCAAAAGGCGCGGATAAACAGCAGTGGGAAAGAAGTCCGGGT
 TCGTCTGAGTTTTCCAGGAAGCAGTCTCATGGAAGTTTGGGAACATGAAAACACAATGAC

ACCGGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR210572 representing NM_001131012
 Red=Cloning site Green=Tags(s)

MAEPSVESSSPGGSAAASEDHEFDPSADMLVHDFDDERTLEEEEMMEGETNFSSEIEDLAREGDMPIDELL
 SLYGYGSTVQLPEEEEEEEEEEGEDDEDADNDDNSGCSGENKEENIKDSSGQEDETQSSNDPDSQSVT
 SQDAQEIIRPRRCKYFDTNSEIEEESEDEDYIPSEDWKEIMVGSFMQAEIPVGVCRYKENEKVYENDD
 QLLWDPEYLPEDKVIVFLKASRRRTGDEKGVFAIPEGSHIKDNEQALYELVKCSFDTEELRRLRFNVKA
 AREELSVWTEEECRNFEQGLKAYGKDFHLIQANKVRTRSVGECVAFYMWKKSERYDFFAQQTRFGKKKY
 NLHPGVTDYMDRLLDESESAASSRAPSPPTASNSSTSQSEKEDGMLSNSNQNGVSSNGPGEILNKEEVK
 VEGLHVNGPTGGNKPLLLTDVDTNGYEENLATDPKLAHMTARNENDFDEKNERPAKRRRINSSGKESPG
 SSEFFQEAVSHGKFEHENTND

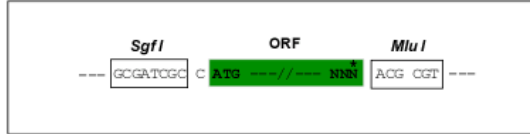
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

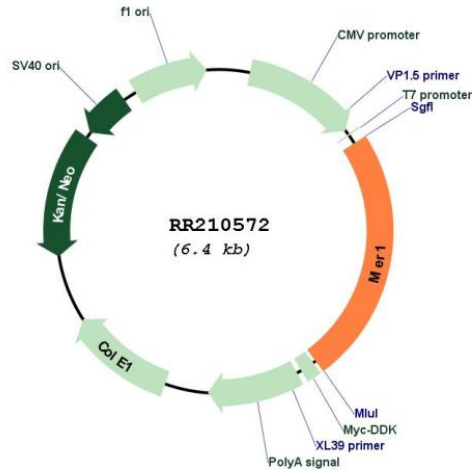
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001131012

ORF Size: 1536 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_001131012.1](#), [NP_001124484.1](#)

RefSeq Size: 4586 bp

RefSeq ORF: 1539 bp

Locus ID: 313418

Cytogenetics: 5q33

MW: 58 kDa