

## Product datasheet for **RR209143**

### Mre11a (NM\_022279) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mre11a (NM_022279) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mre11a
Synonyms:	Mre11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide  
Sequence:**

>RR209143 representing NM\_022279  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAGCCCCACAGATCCGCTTGATGATGAAGACACATTTAAAATCCTGGTTGCCACTGATATTCATCTTG  
 GATTTATGAAAAAGATGCAGTTAGAGGAAATGACACATTTGTGACATTTGATGAAATTTAAGACTTGC  
 CCTGAAAAATGAAGTGGATTTTATTTTGTAGGTGGTATCTTTTCCATGAAAAACAAGCCCTCAAGGAAA  
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 CATCTCCATTCCAGTGTTTAGTATCCACGGCAACCATGATGATCCACAGGGGCAGATGCCCTCTGTGCC  
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 AAAGGCCACTGCGTCAACATCTAGAAATATGTCCATTATAGATGCTTTCAGATCTACCCGACAGCAGCCT  
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 TTCCTACCAGCTCCAGGGCTGATCAAAGGTGGTCGGGCACAGCACCTAGCAAACGGATGTCCCAGAGCCA  
 GACAGCCAAAGGGGTGGACTTTGAATCAGACGAGGACGATGACGACGACCCTTTCATGAGTGGTAGTTGC  
 CCAAGAAGAAACCGAAGA

AG**GCGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR209143 representing NM\_022279  
Red=Cloning site Green=Tags(s)

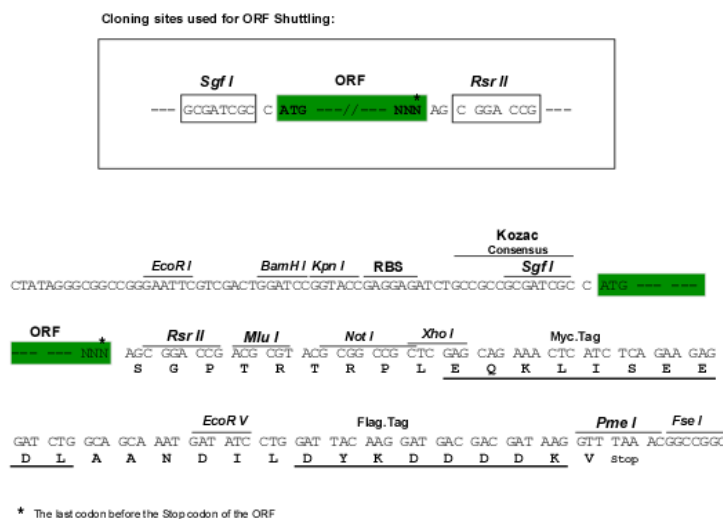
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MSPTDPLDDEDTFKILVATDIHLGFMEKDAVRGNDTFVTFDEILRLALENEVDFILLGGDLFHENKPSRK
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LDVLS CAGFVNHFGRSMSVEKVDISPVLLQKGSTKLALYGLGSIPDERLYRMFVNKKVTMLRPKEDENSW
FNLFVIHQNRSKHGSTNFIPEQFLDDFIDLVIWGHEHECKIGPTRNEQQLFYVVSQPGSSVVTALSPGETV
KKHVGLLRVKGRKMNMQKLP LRTVRQFFMEDVVL ANHPSLFNPDNPKVTQAIQSFCLEKIEEMLDSAERE
RLGNPQQPEKPLIRLRVDYSGGFEPFNVLRFSSQKFVDRVANPKDVIHFFRHREQKGTGEEINFGKLI IK
PASEGTTLRVEDLVKQYFQTAENKVL SLLTERGMGEAVQEFVDKEEKDAIEELVKYQLEKTQRFLKERH
IDALEDKIDEEVRRFRESRQRNTNEEDDEVREAMSRARALRSQSENAASAFSADDLSFDITEQTADDSDD
SQSAVPSRGRGRGRRRGRGQSTAPRGGSQRGRDTGLGISTRGRSSKATASTRNMSIIDAFRSTRQQP
SRNVATKNYSETIEVDESDDDDSFPTSSRADQRWSGTAPSKRMSQSQTAKGVDFE SDEDDDDDPFMSGSC
PRRNR
    
```

SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-RsrII

**Cloning Scheme:**



**ACCN:** NM\_022279

**ORF Size:** 2118 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\\_022279.1](#), [NP\\_071615.1](#)

**RefSeq Size:** 2133 bp

**RefSeq ORF:** 2121 bp

**Locus ID:** 64046

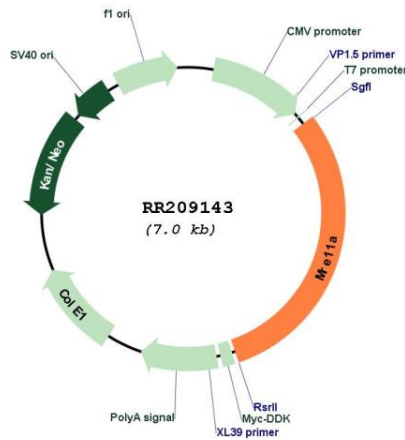
**UniProt ID:** [Q9JIM0](#)

**Cytogenetics:** 8q12

**MW:** 80.1 kDa

**Gene Summary:** may play a role in regulation of cardiomyocyte proliferation [RGD, Feb 2006]

**Product images:**



Circular map for RR209143