

## Product datasheet for **RC223015**

### **MIER1 (NM\_001077701) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MIER1 (NM_001077701) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MIER1
Synonyms:	ER1; MI-ER1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC223015 representing NM\_001077701  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGGAGCCATCTGTTGAATCTTCAAGTCCAGGAGTTTCAGCAACATCAGATGACCATGAATTTGATC  
 CATCAGCTGACATGCTGGTTCATGATTTTGGATGATGAACGAACATTAGAAGAGGAAGAAATGATGGAAGG  
 AGAAACAAACTTCAGCTCTGAAATAGAAGATCTTGAAGGGAAGGCGACATGCCAATTCATGAACCTTCTC  
 AGCCTTTATGGTTATGGTAGTACTGTTGACTACCTGAAGAAGATGAGGAAGAGGAAGAAGGAAGAAG  
 AAGGTGAAGATGATGAAGATGCTGATAATGATGACAACAGTGGCTGTAGTGGGAAAAATAAAGAGGAGAA  
 TATAAAGGATTCATCAGGTCAGGAGGATGAACTCAGTCTTCCAATGATGATCCATCACAATCTGTTGCT  
 TCTCAAGATGCCAGGAAATAATCCGCCACGTCGATGTAATATTTTGATACAAATAGTGAAGTAGAAG  
 AAGAATCTGAAGAAGATGAAGATTATATCCATCAGAAGACTGGAAAAAGGAGATTATGGTGGGCTCCAT  
 GTTTCAAGCAGAAATCCAGTTGGCATTGTAGATACAAAGAAAATGAAAAAGTATATGAAAATGATGAT  
 CAGCTCCTGTGGGACCCTGAGTACTTACCAAGAAGATAAAGTGATTATATTTCTTAAAGATGCATCTAGAA  
 GAACAGGTGATGAGAAGGTGTAGAAGCAATTCCTGAAGGATCTCACATAAAGACAATGAACAGGCTTT  
 ATATGAATGGTTAAATGCAATTTTGTACAGAAGAAGCATTGAGAAGATTAAGATTTAATGTAAGAAACA  
 GCTAGAGAGGAATTATCTGTTGGACAGAGGAAGAGTGTAGAAAATTTGAAACAAGGGCTGAAGGCCTATG  
 GAAAGGATTTTCATTTGATTGAGGCTAATAAAGTCCGAACAAGGTGAGTTGGTGAATGTGTAGCATTCTA  
 TTACATGTGAAAAAATCTGAACGTTATGATTTCTTGTCTAGCAACACGATTTGGAAAGAAGAAATAT  
 AATCTTCATCCTGGTGTAAACGGATTACATGGATCGTCTTCTAGACGAAAGTGAAGTGTGCATCTAGTC  
 GAGCACCATCCCCTCCCCAAGTGCATCAACAGTAGTAACAGCCAGTCTGAGAAAAAGATGATGATGATG  
 AAGCACTGCTAATCAAAATGGAGTGTCACTAATGGACCAGGTGAAATATTAACAAAGAGGAAGTAAAA  
 GTTGAAGGTTACACATTAATGGACCAACAGGTGGAATAAGAAACCACTTCATGCAGATATGGATACTA  
 ATGTTTATGAAACAGATAACCTTACCACTGACCCAAAACCTTGCCCATATGACTGCAAGAAATGAAAATGA  
 TTTTGTGAAAAAAGTGAGAGACCTGCCAAAAGGCGAAGGGTAAACAGCAATGAAAAAGAAAGTCCAGGT  
 TCTTCTGAATTTTCCAAGAAGCAGTCTCACATGGGAAATTTGAAGAAGTGAAGAACACAGATGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC223015 representing NM\_001077701  
 Red=Cloning site Green=Tags(s)

MAEPSVSSSPGGSATSDDFEFDPADMLVHDFDDERTLEEEEMMEGETNFSSEIEDLAREGDMPHELL  
 SLYGYGSTVRLPEDEEEEEEEEGEDDEDADNDNSGCSGENKEENIKDSSGQEDETQSSNDPSQSV  
 SQDAQEIIIRPRRKYFDTNSEVEEESEDEDYIPSEDWKKEIMVGSFMQAEIPVVICRYKENEKVVYEND  
 QLLWDPEYLPEDKVIIFLKDASRRTGDEKGVFAIPEGSHIKDNEQALYELVKCNFDTEALRRRLRFNVKA  
 AREELSVWTEEECRNFEQGLKAYGKDFHLIQANKVRSVGEVAFYMWKKSERYDFFAQQTRFGKKKY  
 NLHPGVTDYMDRLLDESESAASSRAPSPPTASNSNSQSEKEDGTVSTANQNGVSSNPGGEILNKEEVK  
 VEGLHINGPTGGNKKPLHADMDTNGYETDNLTTDPKLAHMTARNENDFDEKSERPAKRRRVNSNGKESPG  
 SSEFFQEAVSHGKFELENTDD

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mg4987\\_e05.zip](https://cdn.origene.com/chromatograms/mg4987_e05.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001077701

**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\\_001077701.3](#)

**RefSeq Size:** 5407 bp

**RefSeq ORF:** 1539 bp

**Locus ID:** 57708

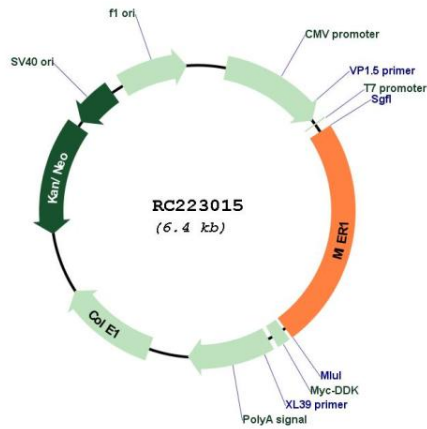
**UniProt ID:** [Q8N108](#)

**Cytogenetics:** 1p31.3

**MW:** 57.8 kDa

**Gene Summary:** This gene encodes a protein that was first identified in *Xenopus laevis* by its role in a mesoderm induction early response (MIER). The encoded protein functions as a transcriptional regulator. Alternatively spliced transcript variants encode multiple isoforms, some of which lack a C-terminal nuclear localization signal. [provided by RefSeq, May 2013]

**Product images:**



Circular map for RC223015