

## Product datasheet for **RG228399**

### **MIER1 (NM\_001146112) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MIER1 (NM_001146112) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MIER1
Synonyms:	ER1; MI-ER1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG228399 representing NM\_001146112  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCTGGTTCATGATTTTGTATGATGAACGAACATTAGAAGAGGAAGAAATGATGGAAGGAGAAACAACT  
 TCAGCTCTGAAATAGAAGATCTTGCAAGGGAAGCGACATGCCAATTCATGAACTTCTCAGCCTTTATGG  
 TTATGGTAGTACTGTTCCGACTACCTGAAGAAGATGAGGAAGAGGAAGAAGAGGAAGAAGAAGGTGAAGAT  
 GATGAAGATGCTGATAATGATGACAACAGTGGCTGTAGTGGGAAAAATAAGAGGAGAATATAAAGGATT  
 CATCAGGTGAGGAGGATGAACTCAGTCTTCCAATGATGATCCATCACAATCTGTTGCTTCTCAAGATGC  
 CCAGGAAATAATCCGCCACGTCGATGTAATATTTTGTACAAATAGTGAAGTAGAAGAAGAATCTGAA  
 GAAGATGAAGATTATATCCATCAGAAGACTGGAAAAAGGAGATTATGGTGGCTCCATGTTTCAAGCAG  
 AAATCCAGTTGGCATTGTAGATACAAAGAAAAAGTAAAGTATATGAAATGATGATCAGCTCCTGTG  
 GGACCCTGAGTACTTACCAGAAGATAAAGTGATTATTTTCTTAAAGATGCATCTAGAAGAACAGGTGAT  
 GAGAAGGGTGTAGAAGCAATTCCTGAAGGATCTCACATAAAAGACAATGAACAGGCTTTATATGAATTGG  
 TTAATGCAATTTTGTACAGAAGAAGCATTGAGAAGATTAAGATTTAATGTAAGCAGCTAGAGAGGA  
 ATTATCTGTTTGGACAGAGGAAGAGTGTAGAAATTTGAACAAGGGCTGAAGGCCTATGGAAGGATTTT  
 CATTGATTACAGGCTAATAAAGTCCGAACAAGGTCAGTTGGTGAATGTGTAGCATTCTATTACATGTGGA  
 AAAATCTGAACGTTATGATTTCTTTGCTCAGCAACACGATTTGGAAAGAAGAAATATAATCTTCATCC  
 TGGTGTAACGGATTACATGGATCGTCTTCTAGACGAAAGTGAAGTGTGCATCTAGTCGAGCACCATCC  
 CCTCCCCAACTGCATCAAACAGTAGTAACAGCCAGTCTGAGAAAGAAGATGGCACTGTAAGCACTGCTA  
 ATCAAAAATGGAGTGTCTAATAATGGACCAGGTGAAATATTAACAAAGAGGAAGTAAAAGTTGAAGGTT  
 ACACATTAATGGACCAACAGGTGGAAATAAGAAACCACTTCATGCAGATATGGATACTAATGTTATGAA  
 ACAGATAACCTTACCCTGACCCAAACTTGCCTATGACTGCAAGAAATGAAAATGATTTTGTAGAAA  
 AAAGTGAGAGACCTGCCAAAAGCGAAGGGTAAACAGCAATGGAAAAGAAAGTCCAGGTTCTTCTGAATT  
 TTTCCAAGAAGCAGTCTCACATGGGAAATTTGAAGAACTGAAAACACAGATGAC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG228399 representing NM\_001146112  
 Red=Cloning site Green=Tags(s)

MLVHDFDDERTLEEEEMMEGETNFSSEIEDLAREGDMPHHELLSLYGYGSTVRLPEEDEEEEEEEEEEGED  
 DEDADNDDNSGCSGENKEENIKDSSGQEDETQSSNDPQSQSVASQDAQEIIRPRRCKYFDTNSEVEESEE  
 EDEDYIPSEWDWKEIMVGSMFQAEIPVIGICRYKENEKVYENDDQLLWDPEYLPEDKVIIFLKDASRRRTGD  
 EKGVEAIPGESHKIDNEQALYELVKCNFDTEELRRLRFNVKAAREELSVWTEEECRNFEQGLKAYGKDF  
 HLIQANKVRTRSVGECVAFYYMWKKSERYDFFAQQTRFGKKKYNLHPGVTDYMDRLLDESESAASSRAPS  
 PPPTASNSNSQSEKEDGTVSTANQNGVSSNGPGEILNKKEEVKVEGLHINGPTGGNKPLHADMDTNGYE  
 TDNLTTDPKLAHMTARNENDFDEKSERPAKRRRVNSNGKESPGSSEFFQEAVSHGKFELENTDD

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001146112

**ORF Size:** 1455 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\\_001146112.2](#)

**RefSeq Size:** 5604 bp

**RefSeq ORF:** 1458 bp

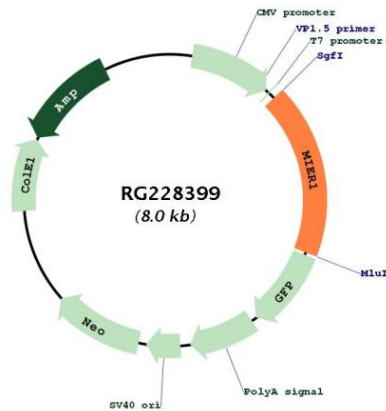
**Locus ID:** 57708

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

**Cytogenetics:** 1p31.3

**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 RG228399