

Product datasheet for **RG223015**

MIER1 (NM_001077701) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MIER1 (NM_001077701) 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:

>RG223015 representing NM_001077701
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGAGCCATCTGTTGAATCTTCAAGTCCAGGAGTTTCAGCAACATCAGATGACCATGAATTTGATC
 CATCAGCTGACATGCTGGTTCATGATTTTGGATGATGAACGAACATTAGAAGAGGAAGAAATGATGGAAGG
 AGAAACAAACTTCAGCTCTGAAATAGAAGATCTTGCAAGGGAAGGCGACATGCCAATTCATGAACCTTCTC
 AGCCTTTATGTTATGGTAGTACTGTTGACTACCTGAAGAAGATGAGGAAGAGGAAGAAGGAAGAAG
 AAGGTGAAGATGATGAAGATGCTGATAATGATGACAACAGTGGCTGTAGTGGGAAAAATAAAGAGGAGAA
 TATAAAGGATTCATCAGGTCAGGAGGATGAACTCAGTCTTCCAATGATGATCCATCACAATCTGTTGCT
 TCTCAAGATGCCAGGAAATAATCCGCCACGTCGATGTAATATTTTGATACAAATAGTGAAGTAGAAG
 AAGAATCTGAAGAAGATGAAGATTATATCCATCAGAAGACTGGAAAAAGGAGATTATGGTGGGCTCCAT
 GTTTCAAGCAGAAATCCAGTTGGCATTGTAGATACAAAGAAAAAGAAAAAGTATATGAAAATGATGAT
 CAGCTCCTGTGGGACCCTGAGTACTTACCAAGAAGATAAAGTGATTATATTTCTTAAAGATGCATCTAGAA
 GAACAGGTGATGAGAAGGTGTAGAAGCAATTCCTGAAGGATCTCACATAAAAGACAATGAACAGGCTTT
 ATATGAATTTGTTAAATGCAATTTTGTACAGAAGAAGCATTGAGAAGATTAAGATTTAATGTAAGAAACA
 GCTAGAGAGGAATTATCTGTTGGACAGAGGAAGAGTGTAGAAAATTTGAAACAAGGGCTGAAGGCCTATG
 GAAAGGATTTTCATTTGATTGAGGCTAATAAAGTCCGAACAAGGTCAGTTGGTGAATGTGTAGCATTCTA
 TTACATGTGGAAGAAATCTGAACGTTATGATTTCTTGTCTAGCAACACGATTTGGAAAGAAGAAATAT
 AATCTTCATCCTGGTGTAAACGGATTACATGGATCGTCTTCTAGACGAAAGTGAAGTGTGCATCTAGTC
 GAGCACCATCCCCTCCCCAAGTGCATCAACAGTAGTAACAGCCAGTCTGAGAAAAGAGATGGCCTGT
 AAGCACTGCTAATCAAAATGGAGTGTCACTAATGGACCAGGTGAAATATTAACAAAGAGGAAGTAAAA
 GTTGAAGGTTACACATTAATGGACCAACAGGTGGAATTAAGAAACCACTTCATGCAGATATGGATACTA
 ATGGTTATGAAACAGATAACCTTACCACTGACCCAAAACCTTGCCCATATGACTGCAAGAAATGAAAATGA
 TTTTGTAGAAAAAGTGAGAGACCTGCCAAAAGGCGAAGGGTAAACAGCAATGAAAAAGAAAGTCCAGGT
 TCTTCTGAATTTTCCAAGAAGCAGTCTCACATGGGAAATTTGAAGAAGTGAAGAACACAGATGAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

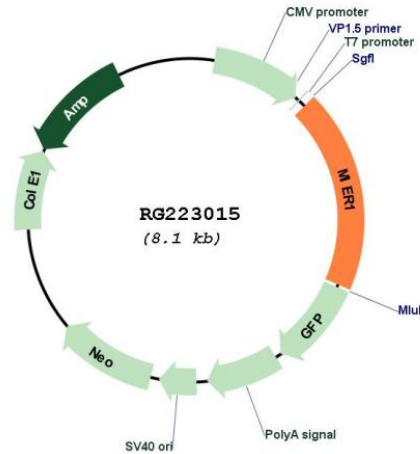
>RG223015 representing NM_001077701
 Red=Cloning site Green=Tags(s)

MAEPSVESSSPGGSATSDHDFDPSADMLVHDFDDERTLEEEEMMEGETNFSSEIEDLAREGDMPIHELL
 SLYGYGSTVRLPEDEEEEEEEEGEDDEDADNDDNSGCSGENKEENIKDSSGQEDETQSSNDPDSQSV
 SQDAQEIIIRPRCKYFDTNSEVEEESEDEDIYIPSEDWKKEIMVGSMTQAEIPVGIcrykENekVYENDD
 QLLWDPEYLPEDKVIIFLKDASRRTGDEKGVIAIPEGSHIKDNEQALYELVKCNFDTEALRRLRFNVKA
 AREELSVWTEEECRNFEQGLKAYGKDFHLIQANKVTRRSVGEVAFYMWKKSERYDFFAQQTRFGKKKY
 NLHPGVTDYMDRLLDESESAASSRAPSPPTASNSNSQSEKEDGTVSTANQNGVSSNGPGEILNKEEVK
 VEGHINGPTGGNKKPLHADMTNGYETDNLTTDPKLAHMTARNENDFDEKSERPAKRRRVNSNGKESPG
 SSEFFQEAVSHGKFELENTDD

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Plasmid Map:


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

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]