

Product datasheet for **RG223221**

MIER1 (NM_001077702) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MIER1 (NM_001077702) 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:

>RG223221 representing NM_001077702
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTGAAAATGTGCATCAGATGTTTATGTTTAAATGGTTTACAGACTGTCTGTGGACTCTTTTCCTGTC
 AAATTACCCAGCCATCTGTTGAATCTTCAAGTCCAGGAGTTTACAGCAACATCAGATGACCATGAATTTGA
 TCCATCAGCTGACATGCTGGTTCATGATTTTATGATGATGAACGAACATTAGAAGAGGAAGAAATGATGGAA
 GGAGAAACAAACTTCAGCTCTGAAATAGAAGATCTTGCAAGGGAAGGCGACATGCCAATTCATGAACTTC
 TCAGCCTTTATGGTTATGGTAGTACTGTTTCGACTACCTGAAGAAGATGAGGAAGAGGAAGAAGAGGAAGA
 AGAAGGTGAAGATGATGAAGATGCTGATAATGATGACAACAGTGGCTGTAGTGGGAAAAATAAGAGGAG
 AATATAAAGGATTCATCAGGTCAGGAGGATGAACTCAGTCTTCCAATGATGATCCATCACAACTCTGTTG
 CTTCTCAAGATGCCCAGGAAATAATCCGCCACGTCGATGTAATATTTTGATACAAATAGTGAAGTAGA
 AGAAGAATCTGAAGAAGATGAAGATTATATCCATCAGAAGACTGGAAAAAGGAGATTATGGTGGGCTCC
 ATGTTTCAAGCAGAAATCCAGTTGGCATTGTAGATACAAAGAAAAATGAAAAAGTATATGAAAAATGATG
 ATCAGCTCCTGTGGGACCTGAGTACTTACCAGAAGATAAAGTGATTATATTTCTTAAAGATGCATCTAG
 AAGAACAGGTGATGAGAAGGGTGTAGAAGCAATTCCTGAAGGATCTCACATAAAAGACAATGAACAGGCT
 TTATATGAATGGTTAAATGCAATTTTGATACAGAAGAAGCATTGAGAAGATTAAGATTTAATGTAAAAAG
 CAGCTAGAGAGGAATTATCTGTTTGACAGAGGAAGAGTGTAGAAATTTTGAACAAGGGCTGAAGGCCTA
 TGGAAAGGATTTTCATTTGATTCAGGCTAATAAAGTCCGAACAAGGTGAGTTGGTGAATGTGTAGCATTC
 TATTACATGTGAAAAAATCTGAACGTTATGATTTCTTTGCTCAGCAAACAGGATTTGAAAGAAGAAAT
 ATAATCTTCATCCTGGTGAACGGATTACATGGATCGTCTTCTAGACGAAAGTGAAGTGCATCTAG
 TCGAGCACCATCCCTCCCAACTGCATCAAACAGTAGTAACAGCCAGTCTGAGAAAGAAGATGGCACT
 GTAAGCACTGCTAATCAAATGGAGTGTATCTAATGGACCAGGCATACTCCAATGCTTCTCCAGTTC
 ATTTTTACGCCATCAGTTCAAGAGCCAATGCCTTTTTAAAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

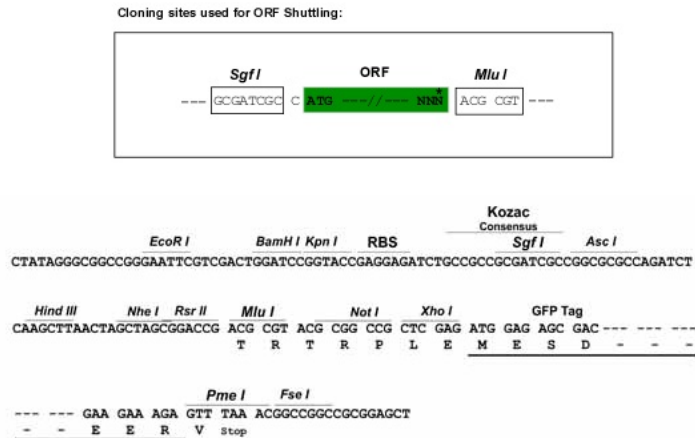
>RG223221 representing NM_001077702
 Red=Cloning site Green=Tags(s)

MLKMCIRCLCLIGLQTVCGFLFSCQITQPSVESSSPGGSATSDDFHFDPSADMLVHDFDDERTLEEEEMME
 GETNFSSEIEDLAREGDMPHELLSLYGYGSTVRLPEEDEEEEEEGEDEDADNDNSGCSGENKEE
 NIKDSSGQEDETQSSNDPSQSVASQDAQEIIIRPRRCKYFDTNSEVEEESEDEDIYIPSEDWKKEIMVGS
 MFQAEIPVIGICRYKENEKVYENDDQLLWDPEYLPEDKVIIFLKDASRRTGDEKGVVAIPEGSHIKDNEQA
 LYELVKCNFDTEALRRLRFNVKAAREELSVWTEEECRNFEQGLKAYGKDFHLIQANKVTRSVGECVAF
 YYMWKKSERYDFFAQQTRFGKKKYNLHPGVTDYMDRLLDESESAASSRAPSPPTASNSSNSQSEKEDGT
 VSTANQNGVSSNGPGILQMLLPVHFSAISSRANAFK

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001077702

ORF Size: 1371 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_001077702.1](#), [NP_001071170.1](#)

RefSeq Size: 1804 bp

RefSeq ORF: 1353 bp

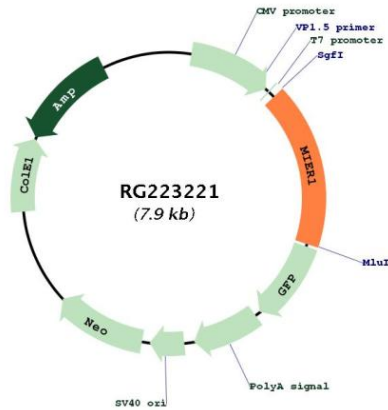
Locus ID: 57708

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 RG223221