

Product datasheet for **RG228431**

MIER1 (NM_001146110) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MIER1 (NM_001146110) 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:

>RG228431 representing NM_001146110
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTTTATGTTTAAATTGGTTTACAGACTGTCTGTGGACTCTTTTCTGTCAAATTACCAGCCATCTGTTG
 AATCTTCAAGTCCAGGAGTTTCAGCAACATCAGATGACCATGAATTTGATCCATCAGCTGACATGCTGGT
 TCATGATTTTGTATGATGAACGAACATTAGAAGAGGAAGAAATGATGGAAGGAGAAACAACTTCAGCTCT
 GAAATAGAAGATCTTGAAGGGAAGGCGACATGCCAATTCATGAACTTCTCAGCCTTTATGGTTATGGTA
 GACTGTTTCGACTACCTGAAGAAGATGAGGAAGAGGAAGAAGAGGAAGAAGGTAAGATGATGAAGA
 TGCTGATAATGATGACAACAGTGGCTGTAGTGGGAAAAATAAGAGGAGAATATAAAGGATTCATCAGGT
 CAGGAGGATGAACTCAGTCTTCCAATGATGATCCATCACAATCTGTTGCTTCTCAAGATGCCAGGAAA
 TAATCCGCCACGTCGATGATAAATTTTGTATACAAATAGTGAAGTAGAAGAAGAATCTGAAGAAGATGA
 AGATTATATTCCATCAGAAGACTGGAAAAAGGAGATTATGGTGGCTCCATGTTTCAAGCAGAAATTCCA
 GTTGGCATTGTAGATACAAAGAAAATGAAAAAGTATATGAAAATGATGATCAGCTCCTGTGGGACCTG
 AGTACTTACCAGAAGATAAAGTGATTATATTTCTTAAAGATGCATCTAGAAGAACAGGTGATGAGAAGGG
 GTAGAAGCAATTCCTGAAGGATCTCACATAAAAGACAATGAACAGGCTTTATATGAATTGGTTAAATGC
 AATTTTGTACAGAAGAAGCATTGAGAAGATTAAGATTTAATGTAAGCAGCTAGAGAGGAATTATCTG
 TTTGGACAGAGGAAGAGTGTAGAAATTTGAACAAGGGCTGAAGGCCTATGGAAGGATTTTCATTTGAT
 TCAGGCTAATAAAGTCCGAACAAGGTGAGTTGGTGAATGTGTAGCATTCTATTACATGTGAAAAAATCT
 GAACGTTATGATTTCTTGTCTCAGCAACACGATTTGGAAGAAGAAATATAATCTTCATCCTGGTGTA
 CGGATTACATGGATCGTCTTCTAGACGAAAGTGAAGTGCATCTAGTCGAGCACCACCCCTCCCCC
 AACTGCATCAAAACAGTAGTAACAGCCAGTCTGAGAAAGAAGATGGCACTGTAAGCACTGCTAATCAAAAT
 GGAGTGCATCTAATGGACCAGGTGAAATATTAACAAGAGGAAGTAAAAGTTGAAGGTTACACATTA
 ATGGACCAACAGGTGAAATAAGAAACCACTTCATGCAGATATGGATACTAATGGTTATGAAACAGATAA
 CCTTACCCTGACCCAAAACCTTGCCCATATGACTGCAAGAAATGAAAATGATTTTGTGAAAAAAGTGAG
 AGACCTGCCAAAAGGCGAAGGTAAACAGCAATGGAAAAGAAAGTCCAGGTTCTTCTGAATTTTCCAAG
 AAGCAGTCTCACATGGGAAATTTGAAGAAGTGAAGAACACAGATGAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG228431 representing NM_001146110
 Red=Cloning site Green=Tags(s)

MFMFNWF TDCLWTLF LSNYQPSV ESSSPGGSATSD DHEFDPSADMLVHDFD DERTLEEEEMMEGETNFSS
 EIEDLAREGDMP IHELLS LYGSTVRLPEE EEEEEEEEEEGEDDEDADND DNSGCSGENKEENIKDSSG
 QEDETQSSND DPSQSVASQDAQE IIRPRRCKYFDTN SEVEE ESEDEDYIP SEDWKKEIMVGS MFQAEIP
 VGICRYKENEKVYENDDQLLWDPEYLPEDKVIIFLKDASRR TGDEKGVEAIPEGSHIKDNEQALYELVKC
 NFDTEELRRLRFNVKAAREELSVWTEEECRNFEQGLKAYGKDFHLIQANKVRTRSVGECVAFYMWKKS
 ERYDFFAQQTRFGKKYNLHPGVTDYMDRLLDESESAASSRAPSPPTASNSNSQSEKEDGTVSTANQN
 GVSSNGPGEILNKEEVKVEGLHINGPTGGNKPLHADMDTNGYETDNL TDPKLAHMTARNENDFDEKSE
 RPAKRRRVNSNGKESPGSSEFFQEAVSHGKFEELNTDD

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001146110

ORF Size: 1587 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_001146110.2](#)

RefSeq Size: 5646 bp

RefSeq ORF: 1590 bp

Locus ID: 57708

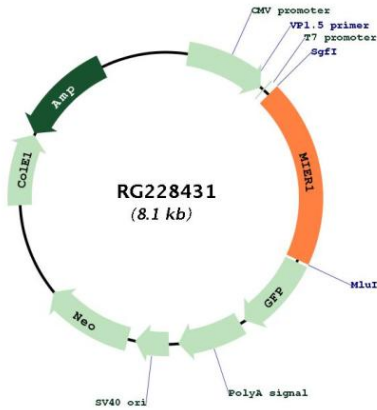
UniProt ID: [Q8N108](#)

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 RG228431