

Product datasheet for **RG223165**

MIER1 (NM_020948) Human Tagged ORF Clone

Product data:

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



ORF Nucleotide Sequence: >RG223165 representing NM_020948
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGTTTATGTTTAATTGGTTTACAGACTGTCTGTGGACTCTTTTCCTGTCAAATTACCAGCCATCTGTTG
 AATCTTCAAGTCCAGGAGGTTTACGAACATCAGATGACCATGAATTTGATCCATCAGCTGACATGCTGGT
 TCATGATTTTATGATGATGAACGAACATTAGAAGAGGAAGAAATGATGGAAGGAGAAACAACTTCAGCTCT
 GAAATAGAAGATCTTGAAGGGAAGGCGACATGCCAATTCATGAACCTTCAGCCTTTATGGTTATGGTA
 GTACTGTTCGACTACCTGAAGAAGATGAGGAAGGGAAGAAGGGAAGAAGGATGAAGATGATGAAGA
 TGCTGATAATGATGACAACAGTGGCTGTAGTGGGAAAAATAAAGAGGAGAATATAAAGGATTCATCAGGT
 CAGGAGGATGAAACTCAGTCTTCCAATGATGATCCATCACAATCTGTTGCTTCTCAAGATGCCAGGAAAA
 TAATCCGCCACGTCGATGTAAATATTTTATACAAATAGTGAAGTAGAAGAAGAATCTGAAGAAGATGA
 AGATTATATCCATCAGAAGACTGAAAAAGGAGATTATGGTGGGCTCCATGTTTCAAGCAGAAATCCA
 GTTGGCATTGTAGATACAAAGAAAAATGAAAAAGTATATGAAAAATGATGATCAGCTCCTGTGGGACCTG
 AGTACTTACCAGAAGATAAAGTGATTATATTTCTTAAAGATGCATCTAGAAGAACAGGTGATGAGAAGGG
 TGTAGAAGCAATTCCTGAAGGATCTCACATAAAGACAATGAACAGGCTTTATATGAATTGGTTAAATGC
 AATTTTGATACAGAAGAAGCATTGAGAAGATTAAAGTTTAAATGTAAGCAGCTAGAGAGGAATTATCTG
 TTTGGACAGAGGAAGAGTGTAGAAATTTTGAACAAGGGCTGAAGGCCTATGGAAGGATTTTCATTGAT
 TCAGGCTAATAAAGTCCGAACAAGGTGAGTTGGTGAATGTGTAGCATTCTATTACATGTGAAAAAATCT
 GAACGTTATGATTCTTTGCTCAGCAACACGATTTGGAAAGAAGAAATATAATCTTCATCTGTTGTA
 CGGATTACATGGATCGTCTTCTAGACGAAAGTGAAGTGTGCATCTAGTCGAGCACCATCCCTCCCC
 AACTGCATCAAAACAGTAGTAACAGCCAGTCTGAGAAAGAAATGGCACTGTAAGCACTGCTAATCAAAAT
 GGAGTGTCTAATGGACCAGGTGAAATATTAACAAAGAGGAAGTAAAGTTGAAGGGTTACACATTA
 ATGGACCAACAGGTGAAAAAAGAAACCACTTCATGCAGATATGGATACTAATGGTTATGAAACAGATA
 CCTTACCACTGACCCAAAACCTTGCCCATATGACTGCAAGAAATGAAATGATTTTATGAAAAAAGTGAG
 AGACCTGCCAAAAGGCGAAGGGTAAACAGCAATGAAAAAGAAAGTCCAGGTTCTTCTGAATTTTCCAAG
 AAGCAGTCTCATATGGGAAATTTGAAGAACTTGAACACAGATGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG223165 representing NM_020948
 Red=Cloning site Green=Tags(s)

MFMFNFTDCLWTLFLSNYQPSVESSSPGGSATSDHEFDPSADMLVHDFDDERTLEEEEMMEGETNFSS
 EIEDLAREGDMPIHELLSLYGYGSTVRLPEEDEEEEEEGEDDEDADNDNSGCSGENKEENIKDSSG
 QEDETQSSNDPSQSVAQDAQEIIIPRRCKYFDTNSEVEESEEDEDYIPSEDWKKEIMVGSFMFAEIP
 VGICRYKENEKVYENDQLLDPEYLPEDKVIIIFLKDASRRTGDEKGVEAIEGSHIKDNEQALYELVKC
 NFDTEELRRLRFNVKAAREELSVWTEEECRNFEQGLKAYGKDFHLIQANKVRTRSVGECVAFYYMWKKS
 ERYDFFAQQTRFGKKYNLHPGVTDYMDRLLESESAASSRAPSPPTASNSSNSQSEKEDGTVSTANQN
 GVSSNGPGEILNKEEVKVEGLHINGPTGGNKKPLHADMDTNGYETDNLTTDPKLAHMTARNENDFDEKSE
 RPAKRRRVNSNGKESPGSSEFFQEA VSHGKFEELNTDD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_020948

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.

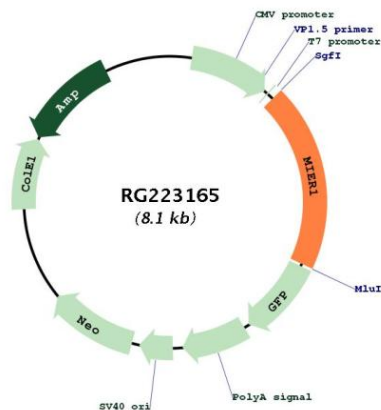
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_020948.4](#)

RefSeq Size: 5643 bp

RefSeq ORF:	1590 bp
Locus ID:	57708
UniProt ID:	Q8N108
Cytogenetics:	1p31.3
Domains:	ELM2, myb_DNA-binding
Gene Summary:	This gene encodes a protein that was first identified in <i>Xenopus laevis</i> 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 RG223165