

Product datasheet for **RG228852**

MIER1 (NM_001146113) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MIER1 (NM_001146113) 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)
ORF Nucleotide Sequence: >RG228852 representing NM_001146113
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCAATTCATGAACTTCTCAGCCTTTATGGTTATGGTAGTACTGTTCCGACTACCTGAAGAAGATGAGG
 AAGAGGAAGAAGAGGAAGAAGAGGTGAAGATGATGAAGATGCTGATAATGATGACAACAGTGGCTGTAG
 TGGGGAAAATAAAGAGGAGAATAAAAGGATTCATCAGGTCAGGAGGATGAACTCAGTCTTCCAATGAT
 GATCCATCACAATCTGTTGCTTCTCAAGATGCCAGGAAATAATCCGCCACGTCGATGTAATATTTTG
 ATACAAATAGTGAAGTAGAAGAAGAATCTGAAGAAGATGAAGATTATATCCATCAGAAGACTGGAAAAA
 GGAGATTATGGTGGGCTCCATGTTTCAAGCAGAAATCCAGTTGGCATTGTAGATACAAAGAAAATGAA
 AAAGTATATGAAAATGATGATCAGCTCCTGTGGGACCCTGAGTACTTACCAGAAGATAAAGTGATTATAT
 TTCTTAAAGATGCATCTAGAAGAACAGGTGATGAGAAGGGTGTAGAAGCAATTCCTGAAGGATCTCACAT
 AAAAGACAATGAACAGGCTTTATGAATTGGTTAAATGCAATTTTGATACAGAAGAAGCATTGAGAAGA
 TTAAGATTTAATGTAAGCAGCTAGAGAGGAATTATCTGTTGGACAGAGGAAGAGTGTAGAAATTTG
 AACAAGGGCTGAAGGCTATGGAAGGATTTTCATTTGATTGAGGCTAATAAAGTCCGAACAAGGTCAGT
 TGGTGAATGTGTAGCATTCTATTACATGTGAAAAAATCTGAACGTTATGATTTCTTTGCTCAGCAAACA
 CGATTTGGAAAGAAGAAATAAATCTTCATCCTGGTGAACGGATTACATGGATCGTCTTCTAGACGAAA
 GTGAAAGTGTGCATCTAGTCGAGCACCATCCCCCCTCCCAACTGCATCAACAGTAGTAACAGCCAGTC
 TGAGAAAGAAGATGGCACTGTAAGCACTGCTAATCAAAATGGAGTGTATCTAATGGACCAGGCATCTC
 CAAATGCTTCTCCAGTTCATTTTTCAGCCATCAGTTCAAGAGCCAATGCCTTTTTAAAA

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG228852 representing NM_001146113
Red=Cloning site Green=Tags(s)

MPIHELLSLYGYGSTVRLPEEDEEEEEEEEEEGEDDEDADNDNSGCSGENKEENIKDSSSQEDETQSSND
 DPSQSVASQDAQEIIIRPRRCKYFDTNSEVEEESEDEDIYPSDEWKKEIMVGSFMFQAEIPVIGICRYKENE
 KVVYENDDQLLWDPEYLPEDKVIIFLKDASRRTGDEKGVVAIPEGSHIKDNEQALYELVKCNFDTEALRR
 LRFNVKAAREELSVWTEEECRNFEQGLKAYGKDFHLIQANKVRTRSVGECVAFYMWKKSERYDFFAQQT
 RFGKKKYNLHPGVTDYMDRLLDESESAASSRAPSPPTASNSSNSQSEKEDGTVSTANQNGVSSNGPGIL
 QMLLPVHFSAISSRANAFLK

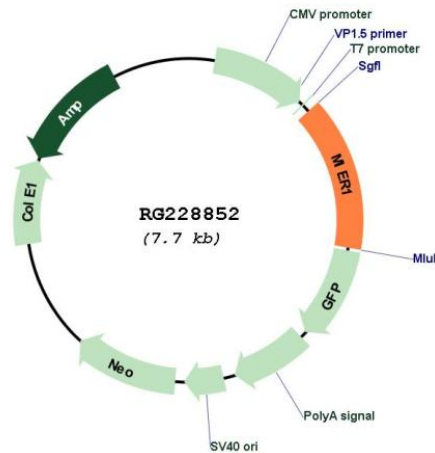
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001146113

ORF Size:	1110 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:	<ol style="list-style-type: none">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_001146113.1 , NP_001139585.1
RefSeq Size:	3613 bp
RefSeq ORF:	1113 bp
Locus ID:	57708
UniProt ID:	Q8N108
Cytogenetics:	1p31.3
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]