

Product datasheet for **SC100475**

MIER1 (NM_020948) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MIER1 (NM_020948) Human Untagged Clone
Tag:	Tag Free
Symbol:	MIER1
Synonyms:	ER1; MI-ER1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_020948, the custom clone sequence may differ by one or more nucleotides

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ATGTTTATGTTTAAATGGTTTACAGACTGTCTGTGGACTCTTTTCTGTCAAATTACCAGCCATCTGTTG
AATCTTCAAGTCCAGGAGGTTCCAGCAACATCAGATGACCATGAATTTGATCCATCAGCTGACATGCTGGT
TCATGATTTTGTGATGAACGAACATTAGAAGAGGAAGAAATGATGGAAGGAGAAACAACTTCAGCTCT
GAAATAGAAGATCTTGAAGGGAAGGCGACATGCCAATTCATGAACTTCTCAGCCTTTATGGTTATGGTA
GTAAGTGTTCGACTACCTGAAGAAGATGAGGAAGAGGAAGAAGAGGAAGAAGAAGGTGAAGATGATGAAGA
TGCTGATAATGATGACAACAGTGGCTGTAGTGGGGAAAAATAAAGAGGAGAATATAAAGGATTCATCAGGT
CAGGAGGATGAACTCAGTCTTCCAATGATGATCCATCACAATCTGTTGCTTCTCAAGATGCCAGGAAA
TAATCCGCCACGTGATGATAAATTTTTGATACAAATAGTGAAGTAGAAGAAGAATCTGAAGAAGATGA
AGATTATATTCCATCAGAAGACTGGAAAAAGGAGATTATGGTGGGCTCCATGTTTCAAGCAGAAATCCA
GTTGGCATTGTAGATACAAAGAAAATGAAAAAGTATATGAAAATGATGATCAGCTCCTGTGGGACCCTG
AGTACTTACCAGAAGATAAAGTGATTATATTTCTTAAAGATGCATCTAGAAGAACAGGTGATGAGAAGGG
TGTAGAAGCAATTCCTGAAGGATCTCACATAAAAGACAATGAACAGGCTTTATATGAATGGTAAATGC
AATTTTGTACAGAAGAAGCATTGAGAAGATTAAGATTTAATGTAAAAGCAGCTAGAGAGGAATTATCTG
TTTGGACAGAGGAAGAGTGTAGAAATTTGAACAAGGGCTGAAGGCCTATGGAAAGGATTTTCATTTGAT
TCAGGCTAATAAAGTCCGAACAAGGTGAGTTGGTGAATGTGTAGCATTCTATTACATGTGGAAAAATCT
GAACGTTATGATTTCTTGTCTCAGCAACACGATTTGGAAAGAAGAAATATAATCTTCATCCTGGTGTA
CGGATTACATGGATCGTCTTCTAGACGAAAGTGAAGTGTGCATCTAGTCGAGCACCATCCCCTCCCC
AACTGCATCAAACAGTAGTAACAGCCAGTCTGAGAAAGAAGATGGCACTGTAAGCACTGCTAATCAAAAT
GGAGTGTACATAATGGACCAGGTGAAATATTAACAAGAGGAAGTAAAAGTTGAAGGGTTACACATTA
ATGGACCAACAGGTGAAATAAGAAACCCTTCATGCAGATATGGATACTAATGGTTATGAAACAGATAA
CCTTACCCTGACCCAAAACCTTGCCCATATGACTGCAAGAAATGAAAATGATTTTGTGAAAAAGTGAG
AGACCTGCCAAAAGGCGAAGGTAAACAGCAATGGAAAAGAAAGTCCAGGTTCTTCTGAATTTTCCAAG
AAGCAGTCTCACATGGGAAATTTGAAGAAGTGAAGAACACAGATGACTAA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_020948 unedited

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TCCCCGCCCGTTGCCGCAAAGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGCAG
AGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGCGAA
TTCCGGCAGAGGGGCGGCCCGGCTCAGGCCCTCCCAGGCTCTGAGTCTCCCGGCTGC
AGGCGGATGGATGGGGCTTCTCAGGCGGTGGCGGCAGCAGCGAAGGTGGCGGCGGCAGC
AGCGGCAGCGGCTATGGTGTGGTCTCGATTCTCCAGTGCCTGGCTGAGTTTCGGACG
TGGTTAAGAACCAACTGGTTGAGGTTCAATGCAGACAAGACGGATGTGATGCTGCCATCT
GTTGAATCTTCAAGTCCAGGAGGTTCCAGCAACATCAGATGACCATGAATTTGATCCATCA
GCTGACATGCTGGTTCATGATTTTGTGATGATGAACGAACATTAGAAGAGGAAGAAATGATG
GAAGGAGAAACAACTTCAGCTCTGAAATAGAAGATCTTGAAGGAAAGGCGACATGCCA
ATTCATGAACTTCTCAGCCTTTATGGTTATGGTAGTACTGTTGACTACCTGAAGAAGAT
GAGGAAGAGGAAGAAGAGGAAGAAGAGGTGAAGATGATGAAGATGCTGATAATGATGAC
NACAGTGGCTGTAGTGGGAAAAATAAAGAGGAGAATATAAAGGATTCATCANGTCAGGAG
GATGAACTCAGTCTTCCAATGATGATCCATCACAATCTGTTGCTTCTCAAGATGCCAG
GAAATAATCCGCCACGTGATGATAAATTTTTGATACANATAGTGAAGTAGAAGAAGAA
ATCTGAGAAGATGAAGATTATATCCATCAGAAGACTGGAAAAAGGAGATATGGTNGGGC
TCATGTTTTCAGCAGAAATTCAGNTGGCATTGTAGATCCAAGGAAATGAAAAGTTTGA
AATGAGATCAGCTCTGTGG
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_020948 unedited CATTGCACCTGGGCTGATGGCACTTNCAGGNCCAGNANGAGCACTGGGGNAGGGTCACA GGGATGCCACCCGGGTTCTGTTCAAGAAACAGCTATGACCGCGGCCGCAATCTAGAGTCG AGTTTTTTTTTTTTTTTTATGTTTAAAAAATATTTAATAAGCATATTCAGAATGGC AGACAAGGAATGGGAGAAGGAATTATTTACAGTGCAAATTAATATGCATAAAATTTAA CATCTAATTTGAAATTTAAATGCCTATTTAAATATTACTTCAAATACATTTTAAAGCTC AACAAACTTGTGTTGAACTGAATTGCAGATCCTGAACTCTATTTGAAAAATACATCATGAA ACAGAAAATACCCATTCCAAATGAAAATGATAGTGCTTTGTTGGGGTGGGAATGAGGCG GNGAGACTAAATCACTATTAACAGACTTCTTTTCCCAATGCAATTTGTCAAAAAGTTCAAA AGTTCTGAAATGTAATAATCTTAAGCAAATTAATTCATGATATTACTAAAATTTTAA AATAGTGAATGACTTATCAAGTTATAGTGGCTGCATTAAGAACANATTATTGTGTGAAA TACCTGTATAAACACAAAATAACAATTAATATTTCTTTACAAAAAGCTGAGCATTACGCA TAATAGTGAATGTCTTTCATTAGGTGATTTNTTTAAAGATTAACANAGGTACATTTCC TAAGATGTATACCTGGGGCCTTATTTTTGCNACCTGGCTGGGAAAAGGTTTTTAAACA TTTCTGGTNCNNAAGTTTGCNNGAACCTTCNNNACCCGGCANNAAAAAGGGCTCTTTT TAAAAAGGGANANGGGNTTCCCCCCCCGTCNCCNTNNCNAANTCCACCTCCCCTA
Restriction Sites:	NotI-NotI
ACCN:	NM_020948
Insert Size:	5000 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_020948.1</u> , <u>NP_065999.1</u>
RefSeq Size:	5643 bp
RefSeq ORF:	5643 bp
Locus ID:	57708
UniProt ID:	<u>Q8N108</u>
Cytogenetics:	1p31.3
Domains:	ELM2, myb_DNA-binding

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]
Transcript Variant: This variant (1) encodes isoform a. Both variants 1 and 10 encode the same isoform (a).
Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.