

## Product datasheet for **SC128081**

### Myeloid zinc finger 1 (MZF1) (NM\_003422) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Myeloid zinc finger 1 (MZF1) (NM_003422) Human Untagged Clone
Tag:	Tag Free
Symbol:	Myeloid zinc finger 1
Synonyms:	MZF-1; MZF1B; ZFP98; ZNF42; ZSCAN6
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC128081 sequence for NM\_003422 edited (data generated by NextGen Sequencing)

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ATGAGGCTGCGGTGCTGGGCTCCCCAGACCGAGCACCCCAAGAAGATGAGGGCCTGTC
ATGGTGAAGCTAGAGGACTCTGAGGAGGAGGGTGAAGCTGCCTTATGGGACCCAGGCCCT
GAAGCTGCACGCCTGCGTTTCCGGTGCTCCGCTATGAGGAGGCCACAGGGCCCCAAGAG
GCCCTGGCCAGCTCCGAGAGCTGTGTGCCAGTGGCTGCGTCCAGAGGTACGCTCCAAG
GAGCAGATGCTGGAGCTGTTGGTGCTGGAGCAGTTCCTGGGCGCACTGCCCCCTGAGATC
CAGGCCCGTGTGCAGGGCAGCGCCAGGCAGCCCGAGGAGGCTGCTGCCCTAGTAGAT
GGGCTGCGCCGGGAGCCGGGCGGACCCCGAGATGGGTACAGTCCAGGTGCAGGGCCAG
GAGGTCTATCAGAGAAGATGGAGCCCTCCAGTTTCCAGCCCCTACCTGAAACTGAGCCT
CCAACCTCAGAGCCTGGGCCAAGACACCTCCTAGGACTATGCAGGAATCACCCTGGGC
CTGCAGGTGAAAGAGGAGTCAGAGGTTACAGAGGACTCAGATTTCTGGAGTCTGGGCCCT
CTAGCTGCCACCCAGGAGTCTGTACCCACCTCCTGCCTGAGGAGGCCAGAGATGTGGG
ACCGTGCTGGACCAGATCTTTCCACAGCAAGACTGGGCCTGAGGGTCCCTCATGGAGG
GAGCACCCAGGGCCCTGTGGCATGAGGAAGCTGGGGCATCTTCTCCCAGGGTTCGCG
CTGCAGCTAGGCAGCATCTCCGCAGGTCCAGGTAGTGTAAAGCCCTCACCTCCACGTCCTCC
TGGGACCTCGGCATGGCTGGCCTTTCTGGCCAGATCCAATCACCTCCCGCAAGGTGGC
TTTGCGCATGCGCTTCTGCTCCCGAGCATCTGAGGAGTGAACAGGACCCACGGACGAG
GATCCCTGCCGGGTGTGGGCCCTGCTCTGATCACACCCGCTGGCGCTCCCCAGGGGC
CGGAGCCGGGGCCGCCACAGCACTGGGGCGGGGTGGTTAGGGGCGGCCGTTGCGATGTA
TGTGGCAAGGTGTTACGCCAACGCAGCAACCTGCTGAGGCACCAAGATCCACACGGGT
GAGCGACCATTCGTGTGCAGCGAGTGCAGCCGAGCTTACGCCGAGCTCGCACCTGCTG
CGCCACAGCTTACGCACACCGAGGAGCGCCGTTTCGTGTGCGGGCACTGTGGCCAGGGC
TTGCGTGCAGCGCGCCCTGGAAGAGCATCGGAGAGTGCACACGGGCGAACAGCCTTTC
CGTTGCGTGTGAGTGCAGCCAGAGCTTCCGGCAGCGCTCCAATCTGCTGCAGCACAGCGC
ATCCACGGCGATCCCCGGGCCCTGGCGCTAAGCCCCGGGCCCTCCTGGTGCGCCCGAG
CCTCCCGGCCCTTTCGTGCAGCGAGTGCAGCGAGAGCTTCCGCGGGCGCGCCGTGCTG
CTGGAGCACAGGCGGTACACACGGGCGACAAGTCTTTGGTGCCTGAGTGCAGCGAG
CGCTTCCGCCCGCCGCTCAGTGTGCTGCAGCACCGGCGCGTGCACAGTGGCGAGCGGCC
TTCGCTGTGCCAGTGCAGCCAGAGCTTCCGGCAGCGCTCCAACCTGACGCAGCACCGG
CGCATCCACACCGGGAGCGGCCCTTTCGCTGCAGCGAGTGTGGCAAGGCCTTCCGCCAG
CGGCCTACGCTACGCAGCATCTCCGCGTACACACGGGCGAGAAACCCTTTCGCTGCCCC
GAGTGTGGCCAGCGCTTACGCCAGCGCCTCAAGCTCACGCGTATCAGAGGACACACACC
GGCGAAAAGCCCTACCACTGCGGTGAGTGCAGCCTGGGCTTACGCAGGTCTCGCGGCTC
ACCGAGCACAGCGCATCCACACGGGCGAACGGCCCTTCCGCTGCCCCGAGTGCAGGCCAG
AGCTTTCGGCAGCACGCCAACCTCACCCAGCACCGGCGCATCCACACGGGTGAACGGCC
TACGCATGCCCTGAGTGTGGCAAGGCCTTCCGCCAGCGGCCACGCTCACGCAGCATCTG
CGCACCCACCGAGAGAGAAGCCCTTTCGCTGCCAGGACTGTGGCCGCGCTTCCACCAG
AGCACCAAGCTCATTACGACACGCGCTCCACAGCGCCGAGTAG

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Clone variation with respect to NM\_003422.2

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_003422 unedited  
 NNNNNNNAAGTACACAATTTGTAACGACTCACTATAGGCGGCCGCGNAATTCGCACGAG  
 GCTGACTACATCTGCCGAAACATCGGGCCAAGCCTTTCTCCATTTTGCGGTCTAGGAAG  
 TAGCAGAGGCCCTTCTGTAGGGAGTTGCCATGGAGACGCGGTGGGGCACCCGACGGAGT  
 TCTAATGACGGCCGTGATTGGTGCAGGATCCTGCTAATCTCAGGAAGCCCGTAGAGAAG  
 GGCAGACTGGCCTCAGATACCTGACCTGGTACCCTCTATGAGGCCTGCGGTGCTGGGC  
 TCCCCAGACCCGACCCCCAGAAGATGAGGGCCCTGTCTGTTGAGGCTAGAGGACTCT  
 GAGGAGGAGGGTGAAGCTGCCTTATGGGACCCAGGCCCTGAAGCTGCACGCCTGCGTTTC  
 CGGTGCTTCCGCTATGAGGAGGCCACAGGGCCCCAAGAGGCCCTGGCCAGCTCCGAGAG  
 CTGTGTGCCAGTGGCTGCGTCCAGAGGTACGCTCCAAGGAGCAGATGCTGGAGCTGTTG  
 GTGCTGGAGCAGTTCTGGGCGCACTGCCCCCTGAGATCCAGGCCGTGTGCAGGGGCGAG  
 CGGCCAGGCAGCCCCGAGGAGGCTGCTGCCCTAGTAGATGGGCTGCGCCGGGAGCCGGGC  
 GGACCCCGGAGATGGGTACAGTCCAGGTGCAGGGCCAGGAGTCTATCAGAGAAGATG  
 GAGCCCTCCAGTTTCCAGCCCCTACCTGAAACTGAGCCTCCAACCTCCAGAGCCTGGGCC  
 AAGACACCTCCTAGGACTATGCAGGAATCACCCTGGGCCCTGCAGTGAAAAGAGAGTCA  
 GAGGTTACCAGAC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_003422 unedited  
 NGGGGAAGACTAAGGAACCGCGCCGAATCTAGNGATCGGTTTTTTTTTTTTTTTTTTTT  
 CCATCTACTGTTTATTGGACACCTACAGTAGCCAAGCCCTGGGCGGACCTGCTTATACTT  
 ATGTAATCGCCAGCCTCACATAAACCAGGGGAGGTAGGTGTTCTGACCATGGCGGACACA  
 GTGCGTCCGGCTGGAGCTACTCGGCGTGTGGACGCGTGGTGTGAATGAGCTTGGTG  
 CTCTGGTGAAGCGGCGGCCACAGTCTGGCAGCGAAGGGCTTCTCTCGTGGTGGGTG  
 CGCAGATGCTGCGTGAGCGTGGGCCGCTGGCGGAAGGCCTTGCCACACTCAGGGCATGCG  
 TAGGGCCGTTACCCGTGTGGATGCGCCGGTGTGGGTGAGGTTGGCGTCTGCCGAAAG  
 CTCTGGCCGCACTCGGGGAGGCGAAGGGCCGTTCCGCCGTGTGGATGCGCTGGTGTCTG  
 GTGAGCCGCGAGACCTGCGTGAAGCCCAGGCCGCACTCACCGCAGTGGTAGGGCTTTTCG  
 CCGGTGTGTGCTCTGATGACGCGTGAAGCTTGAAGGCGTGGTGAAGCGCTGGCCACAC  
 TCGGGGAGGCAAGGGTTTCTCGCCCGTGTGTACGCCGAGATGCTGCGTGAAGCGTAAGC  
 CGCTGGCGGAAGGCCTTGCCACACTCGGCGCAAGCGAAGGGCCGCTCCCCGGTGTGGATG  
 CCCCCGTGCTGCNTCAAGTTTGAACCGCTGCCCGAAGCTTGGCCGCACTCGGCACAAGG  
 CAAAGGCCCCCTCGCCCTGGTCCAACCCCGTGCCTCANCAACCCTGAACAGCCGCCNA  
 AACGNTNNCGNAATTNNANCCAACCAAAGAAATTNNCCCCCTAGGTAACAACGGGGGAG

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_003422

**Insert Size:**

2900 bp

**OTI Disclaimer:**

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_003422.2</a> , <a href="#">NP_003413.2</a>
<b>RefSeq Size:</b>	2620 bp
<b>RefSeq ORF:</b>	2205 bp
<b>Locus ID:</b>	7593
<b>UniProt ID:</b>	<a href="#">P28698</a>
<b>Cytogenetics:</b>	19q13.43
<b>Domains:</b>	zf-C2H2
<b>Protein Families:</b>	Transcription Factors
<b>Gene Summary:</b>	<p>Binds to target promoter DNA and functions as transcription regulator. Regulates transcription from the PADI1 and CDH2 promoter. May be one regulator of transcriptional events during hemopoietic development.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the shortest transcript. Variants 1 and 2 encode the same isoform (1).</p>