

## Product datasheet for **RC220791**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Myeloid zinc finger 1 (MZF1) (NM_003422) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Myeloid zinc finger 1
Synonyms:	MZF-1; MZF1B; ZFP98; ZNF42; ZSCAN6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>RC220791 representing NM\_003422  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAGGCCTCGGTGCTGGGCTCCCCAGACCGAGCACCCCAAGAAGATGAGGGCCCTGTCATGGTGAAGC  
TAGAGGACTCTGAGGAGGAGGGTGAGGCTGCCTTATGGGACCCAGGCCCTGAAGCTGCACGCCTGCGTTT  
CCGGTGCCTCCGCTATGAGGAGGCCACAGGGCCCCAAGAGGCCCTGGCCAGCTCCGAGAGCTGTGTGCG  
CAGTGGCTGCGTCCAGAGGTACGCTCCAAGGAGCAGATGCTGGAGCTGTTGGTGTGGAGCAGTTCTGG  
GCGCACTGCCCCCTGAGATCCAGGCCCTGTGCAGGGGACGCGCCAGGCAGCCCCGAGGAGGCTGCTGC  
CCTAGTAGATGGGCTGCGCCGGGAGCCGGGCGGACCCCGAGATGGGTACAGTCCAGGTGCAGGGCCAG  
GAGGTCCTATCAGAGAAGATGGAGCCCTCCAGTTTCCAGCCCCTACCTGAAACTGAGCCTCCAACCTCCAG  
AGCCTGGGCCCAAGACACCTCCTAGGACTATGCAGGAATCACCACTGGGCTGCAGGTGAAAGAGGAGTC  
AGAGGTTACAGAGGACTCAGATTTCTGGAGTCTGGGCTCTAGCTGCCACCCAGGAGTCTGTACCCACC  
CTCCTGCCTGAGGAGGCCAGAGATGTGGGACCGTGTGGACCAGATCTTTCCCCACAGCAAGACTGGGC  
CTGAGGGTCCCTCATGGAGGGAGCACCCAGGGCCCTGTGGCATGAGGAAGCTGGGGCATCTTCTCCCC  
AGGGTTCGCGCTGCAGCTAGGCAGCATCTCCGAGGTCCAGGTAGTGTAAAGCCCTCACCTCCACGTCCCC  
TGGGACCTCGGCATGGCTGGCCTTTCTGGCCAGATCCAATCACCCCTCCGCGAAGGTGGCTTTGCGCATG  
CGTCTCTGCTCCCCAGCGATCTGAGGAGTGAACAGGACCCACGGACGAGGATCCCTGCCGGGTGTGGG  
CCCTGCTCTGATCACACCCGCTGGCGCTCCCCAGGGCCGGAGCCGGGGCCGCCACACTGGGGGC  
GGGTGGTTAGGGGCGCCGTTGCGATGTATGTGGCAAGGTGTTACGCCAACGCAGCAACCTGCTGAGGC  
ACCAGAAGATCCACACGGGTGAGCGACCATTCGTGTGCAGCGAGTGCGGCCGACGTTTCAGCCGACGTC  
GCACCTGCTGCGCCACCAGCTTACGCACACCCAGGAGCGGCCGTTTCGTGTGCGGGACTGTGGCCAGGGC  
TTCGTGCGCAGCGCGCCTGGAAGAGCATCGGAGAGTGCACACGGGCGAACAGCCTTTCGTTGCGCTG  
AGTGCGGCCAGAGCTTCCGGCAGCGCTCCAATCTGCTGCAGCACCAGCGCATCCACGGCGATCCCCGGG  
CCCTGGCGCTAAGCCCCGGCCCTCCTGGTGCGCCGAGCCTCCCGCCCTTTCGTTGACGAGTGC  
CGGAGAGCTTCGCGGGCGCGCCTGCTGCTGGAGCACCAGGCGGTACACACGGGCGACAAGTCTTTG  
GCTGCGTCGAGTGCGGCAGCGCTTCGGCCGCGCTCAGTGTGCTGCAGCACCAGCGCGTGCACAGTGG  
CGAGCGCCCTTCGCTGTGCCGAGTGCGGCCAGAGCTTCCGGCAGCGCTCCAACCTGACGAGCACCAG  
CGCATCCACACCGGGAGCGCCCTTCGCTGCGCCGAGTGTGGCAAGGCCTTCCGCCAGCGGCCTACGC  
TCACGCAGCATCTCCGCTACACACGGGCGAGAAACCCTTTCCTGCCCCGAGTGTGGCCAGCGCTTCAG  
CCAGCGCCTCAAGCTCACGCGTCATCAGAGGACACACACCGGCGAAAAGCCCTACCACTGCGGTGAGTGC  
GGCCTGGGCTTACGCAGGTCTCGCGGCTCACCGAGCACCAGCGCATCCACACGGGCGAACGGCCCTTCG  
CCTGCCCGAGTGCGGCCAGAGCTTTCGGCAGCAGCCAACTCACCCAGCACCAGCGCATCCACACGGG  
TGAACGGCCCTACGCATGCCCTGAGTGTGGCAAGGCCTTCCGCCAGCGGCCACGCTCACGAGCATCTG  
CGCACCCACCGAGAGAGAAGCCCTTCGCTGCCAGGACTGTGGCCGCGCTTCCACCAGAGCACCAAGC  
TCATTACGACCAGCGCTCCACAGCGCCGAG

**AGCGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
TGGATTACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC220791 representing NM\_003422  
 Red=Cloning site Green=Tags(s)

MRPAVLGSPDRAPPEDEGPVMVKLEDSEEEGEAALWDPGPEAARLRFRCFRYEEATGPQEALALRELCR  
 QWL RPEVRSKEQMLELLVLEQFLGALPPEIQARVQGRPGSPEEAAAALVDGLRREPGGPRRWTVQVQGQ  
 EVLSEKMEPSSFQPLPETEPPTPEPGPKTPPRTMQESPLGLQVKEESEVTEDSDFLESGPLAATQESVPT  
 LLPEEAQRCGTVLDQIFPHSKTGPEGSPWREHPRALWHEEAGGIFSPGFALQLGSI SAGPGSVSPHLHVP  
 WDLGMAGLSGQIQSPSREGGFAHALLLPSDLRSEQDPTDEDPCRGVGPALITTRWRSRGRSRGRSTGG  
 GVVRGGRCDCVCGKVFSSQRSNLLRHQKIHTGERPFVCECGRSFSRSSHLLRHQLTHTEERPFVCGDCGQG  
 FVRSARLEEHRVHTGEQPFRCACGQSFQRSNLLQHQRHGDPPGPGAKPPAPPGAPEPPGPFPCSEC  
 RESFARRAVLLEHQAVHTGDKSFGVCEGERFGRRSVLLQHRRVHSGERPFACAECGQSFQRSNLTQHR  
 RIHTGERPFACAECGKAFRQRTLTQHLRVHTGEKPFACPECGQRF SQRLKLRHQRTHTEKPYHCGEC  
 GLGFTQVSRLTEHQRIHTGERPFACPECGQSFQHANLTQHRRHTGERPYACPECGKAFRQRTLTQHL  
 RTHRREKPFACQDCGRRFHQSTKLIHQRVHSAE

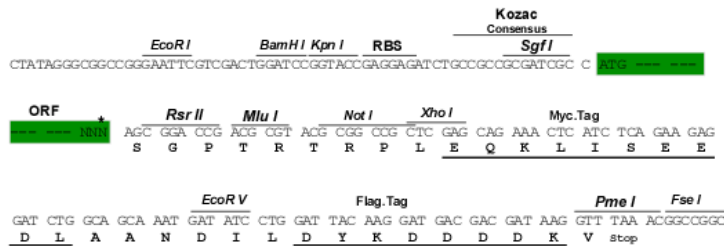
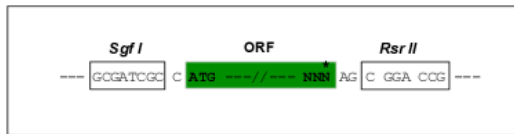
SGPTRRRLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6623\\_b04.zip](https://cdn.origene.com/chromatograms/mk6623_b04.zip)

**Restriction Sites:** SgfI-RsrII

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



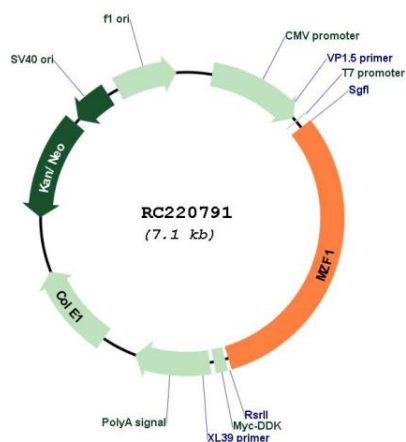
\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_003422

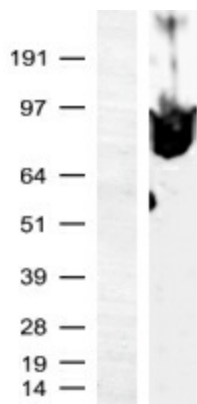
**ORF Size:** 2202 bp

<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>MW:</b>	81.9 kDa
<b>Gene Summary:</b>	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]

Product images:



Circular map for RC220791



Western blot validation of overexpression lysate (Cat# [LY418714]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220791 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).