

## Product datasheet for **RC201381**

### MCPIP1 (ZC3H12A) (NM\_025079) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MCPIP1 (ZC3H12A) (NM_025079) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZC3H12A
Synonyms:	dj423B22.1; MCPIP; MCPIP-1; MCPIP1; Reg1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC201381 representing NM\_025079  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGTGGCCCTGTGGAGAGAAGCCTGTCTGGAAGCCAGCCCACCATGAGTCTGTGGGAATTTGAGG  
 ACAGCCACAGCCGTCAGGGCACCCCAAGGCCGGGTCAAGAGCTGGCCGCTGAGGAGGCCTCGGCCCTGGA  
 ACTGCAGATGAAGGTGGACTTCTTCGGAAAGCTGGGCTATTCATCCACGGAGATCCACAGCGTCCTGCAG  
 AAGCTGGGCGTCCAGGCAGACACCAACACGGTGTGGGTGAGCTGGTGAACACGGGACAGCCACCGAGC  
 GGGAGCGCCAGACCTCACCGACCCCTGCCCTCAGCTCCCTCTAGTCCCAGCGGGTGGTGGCACCCCTAA  
 GGCTCCCAACCTGGAGCCTCCACTCCCAGAAGAGGAAAAGGAGGGCAGCGACCTGAGACCAGTGGTCATC  
 GATGGGAGCAACGTGGCCATGAGCCATGGGAACAAGGAGGTCTTCTCCTGCCGGGCATCCTGCTGGCAG  
 TGAAGTGGTTTCTGGAGCGGGCCACACAGACATCACAGTGTGGTCCATCCTGGAGGAAGGAGCAGCC  
 TCGGCCCGACGTGCCATCACAGACCAGACATCCTGCGGGAACGGAGAAGAAGATCCTGGTGTTC  
 ACACCATCACGACGCGTGGGTGGCAAGCGGGTGGTGTGCTATGACGACAGATTCATTGTGAAGCTGGCCT  
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 ATGGGTGTGGCCACTTCACTGTCCCTGCCGACTACCCACCCGCGCCCTGCCTTTCCACCTCGAGAGT  
 ACTGGTCTGAACCATACCCACTGCCCCACCCACATCAGTCTTCCAGGAGCCCCAGTGCAGAGCCAGG  
 GGCTGGCAGGAGCCGTTGGGCGAGGCAGACAGCCTGGCCAAGGAGCAGGCCAGCGTGTATACTAAGCTG  
 TGTGGTGTGTTTCCCCGCACCTGGTGGAGGCTGTGATGGGGCGCTTCCACAGCTCCTGGACCCCCAGC  
 AGCTGGTGGCAGATCCTCTCTACAAGTCCCAGCACCCAGTGAG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC201381 representing NM\_025079  
 Red=Cloning site Green=Tags(s)

MSGPCGEKPVLEASPTMSLWEFEDSHSRQGTTPRPGQELAAEEASALELQMKVDFFRKLGYSSTEIHSVQ  
 KLVGVQADTNTVLGELVKHGTATERERQTSPPDCPQLPLVPRGGTTPKAPNLEPPLPEEKEGSDLRPVVI  
 DGSNVAMSHGNKEVFSCRGILLAVNWFLEGRHTDITVFPVSWRKEQPRPDVPIITDQHILRELEKKILVF  
 TPSRRVGGKRVVYDDRFIVKLAYESDGI VVSNDTYRDLQGERQEWKRFIEERLLMYSFVNDKFMPPDDP  
 LGRHGPSLDNFLRKKPLTLEHRKQPCPYGRKCTYGIKCRFFHPERPSCPQRSVADELARANALLSPPRAPS  
 KDKNGRRPSPSSQSSLLTESEQSLDGKLLGAQASPGSRQEGLTQTYAPSGRSLAPSGGSGSSFGPTDW  
 LPQTLDSLPHYVSQDCLDSGIGSLESQMSLWGVGGGPGEPGPPRAPHYTYSPYSELPAATAAFSAFGRA  
 MGAGHFSVPADYPPAPPAPPREYWSEYPLPPPTSVLQEPVQSPGAGRSPWGRADSLAKEQASVYTKL  
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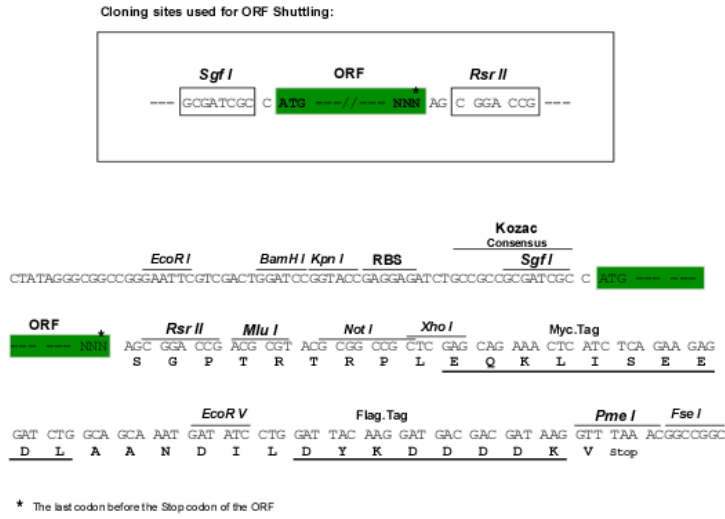
SGP**TRRRLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

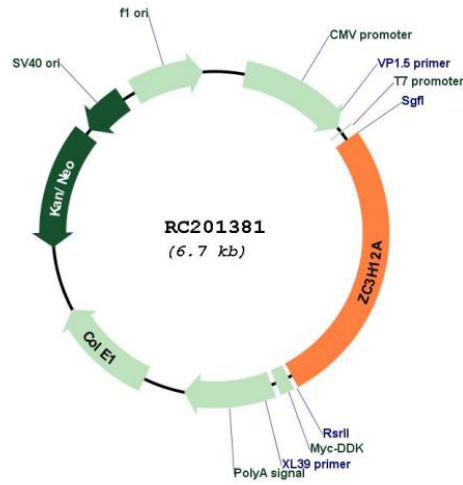
[https://cdn.origene.com/chromatograms/mg3842\\_c05.zip](https://cdn.origene.com/chromatograms/mg3842_c05.zip)

Restriction Sites: SgfI-RsrII

Cloning Scheme:



Plasmid Map:

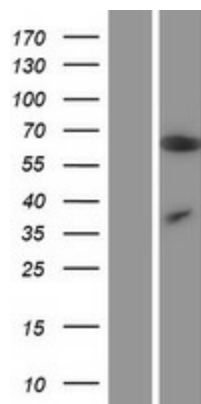


ACCN: NM\_025079

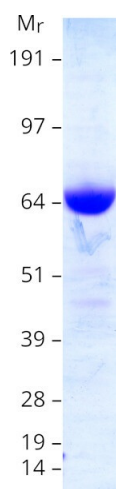
ORF Size: 1797 bp

<b>OTI Disclaimer:</b>	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>
<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_025079.1</a> , <a href="#">NP_079355.1</a>
<b>RefSeq Size:</b>	2697 bp
<b>RefSeq ORF:</b>	1800 bp
<b>Locus ID:</b>	80149
<b>UniProt ID:</b>	<a href="#">Q5D1E8</a>
<b>Cytogenetics:</b>	1p34.3
<b>MW:</b>	65.5 kDa
<b>Gene Summary:</b>	ZC3H12A is an MCP1 (CCL2; MIM 158105)-induced protein that acts as a transcriptional activator and causes cell death of cardiomyocytes, possibly via induction of genes associated with apoptosis.[supplied by OMIM, Mar 2008]

## Product images:



Western blot validation of overexpression lysate (Cat# [LY410904]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201381 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ZC3H12A protein (Cat# [TP301381]). The protein was produced from HEK293T cells transfected with ZC3H12A cDNA clone (Cat# RC201381) using MegaTran 2.0 (Cat# [TT210002]).