

## Product datasheet for MR206461

### Zbp1 (NM\_021394) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Zbp1 (NM_021394) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Zbp1
Synonyms:	2010010H03Rik; Dai; Dlm1; mZaDLM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206461 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAGAAGCTCCTGTTGACTTGAGCACAGGAGACAATCTGGAGCAAAGATCCTGCAGGTGTTGAGCG  
ATGACGGCGGCCCTGTGAAGATTGGCCAGCTGGTGAAGAAATGCCAAGTGCCCAAGAAAACCTCAATCA  
AGTCCTTTACCGCCTGAAGAAGGAGGACAGAGTGTCTCCCCAGAGCCTGCAACATGGCGCATAGGCGGG  
GCTGCTCCGGAGATGGGGCTCCTGCAATCCCTGAGGACTCCAGTGCCAGCCTAGCCTTGATGAAAGAA  
TATTAAGATTCTGGAAGCCAATGGGCCTCACAGGGCCCTGCACATCGCCAAGGCTCTGGGAATGACGAC  
AGCCAAAGAAGTGAACCCACTCCTGTATTCCATGAGAAAATAAGCACCTTCTGAGCTATGACGGACAGACG  
TGAAGATCTACCACTCACGTCAGGAAGGCCAAGACATAGCTCATTCTGGAGTCACACAAGATCCCTG  
CGATTATTTGTCAGCACAAATCCGGTCAACATGATCTGCCAACAAGGAGCCAACAGCCACATCTCCATTGC  
CAATTCAAACGCCATCCAGATTGGTCACAGGAATGTCAATAGTAAGAGAGAAAAGCCTGTGGTGAGCCAGGT  
CCCAGGACCTCTACCCCTTACCCTTGGCATGGGACGCCCTGTGCTCAGGACATGCCCCCTGTTGCCCATG  
GAGCTCAGTACATCTACATGGACAAGTCCTTGTCCAACAAGTGCAGCTTGCCACCACAACGAGATGAG  
CCTCGTGGGGGATGCAGGAAGCACCCCTTTATAGCTTTTCTGACAGCCCCCAGAAGTGTCAACCACC  
ACTGTGACCCAGGAGCTTCATTCAACATGCAACATCTGAGCCAGGCCCTCACCTGAGGGAGACACAG  
TCCAGACAGTCCACATCAAATCCTGCTTTCTAGAGGACGCCACCATTTGGTAACGGCAACAAGATGACCAT  
CCACCTTAGGTCAAAGGGTGAAGTCATGGAGTCTGGAGACAGTGAAGAGCCGAAGAAGGAAGACACAGGT  
ACAAGCTCTGAAGCCACTCCACCAGAAGCTGCCAGCACAGCCAGTACTCCATGCTGCCACCTCTG  
AGCTGAGAGCTATGGCTCTGGGAGACAGTAGCCCCAGACCACAGAACCTGTGCTTAGAGAGCATGAAGT  
CCAGGACATAGAAAGCACTCAAGACACAGGACTGAGCAAGCAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



[View online >](#)

**Protein Sequence:** >MR206461 protein sequence  
Red=Cloning site Green=Tags(s)

MAEAPVDLSTGDNLEQKILQVLSDDGPPVKIGQLVKKCQVPKKTNLNQLYRLKKEDRVSSPEPATWRIGG  
 AASGDGAPAIPESSAQPSLDERILRFLEANGPHRALHIAKALGMTTAKENVPLLYSMRNKHLISYDGQT  
 WKIYHSRQEGQDIAHSGVTQESPAIICQHNPVNMICQQGANSIHISANSNAIQIGHRNVIYREKACGEPG  
 PRTSHPLPLAWDASAQDMPPVAHGAQYIYMDKSLQVQLGHHNEMSLVGDAGKHPYSYFSDSPPEVSTT  
 TADPGASFNMQTSEPGPHPEGDTVQTVHIKSCFLEDATIGNGNKMTIHLRSKGEVMESGDSEEPKEDTG  
 TSSEATPPRSCQHTPSDMLPTSELRAMALGDSSPQTTEPVLREHEVQDIESTQDTGLSKQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_021394

**ORF Size:** 1236 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:**

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\\_021394.1](#), [NM\\_021394.2](#), [NP\\_067369.1](#)

**RefSeq Size:** 1988 bp

**RefSeq ORF:** 1236 bp

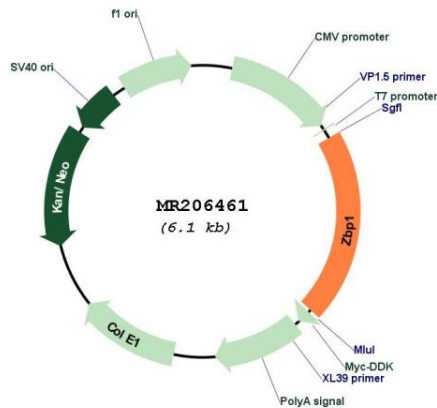
**Locus ID:** 58203

**Cytogenetics:** 2 H3

**MW:** 44.5 kDa

**Gene Summary:** Participates in the detection by the host's innate immune system of DNA from viral, bacterial or even host origin. Plays a role in host defense against tumors and pathogens. Acts as a cytoplasmic DNA sensor which, when activated, induces the recruitment of TBK1 and IRF3 to its C-terminal region and activates the downstream interferon regulatory factor (IRF) and NF-kappa B transcription factors, leading to type-I interferon production. ZBP1-induced NF-kappaB activation probably involves the recruitment of the RHIM containing kinases RIPK1 and RIPK3.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR206461