

Product datasheet for **MG222181**

Zbp1 (NM_001139519) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Zbp1 (NM_001139519) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Zbp1
Synonyms: 2010010H03Rik; Dai; Dlm1; mZaDLM
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG222181 representing NM_001139519
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGAAGCTCCTGTTGACTTGAGCACAGGAGACAATCTGGAGCAAAAGATCCTGCAGGTGTTGAGCG
ATGACGGCGCCCTGTGAAGATTGGCCAGCTGGTGAAGAAATGCCAAGTGCCCAAGAAAACCTCAATCA
AGTCCTTTACCGCCTGAAGAAGGAGGACAGAGTGTCTCCCCAGAGCCTGCAACATGGAGCATAGGCGGG
GCTGCTTCTGGAGATGGGGCTCCTGCAATCCCTGAGAAGTCCAGTCCCAGCCTAGCCTTGATGAAAGAA
TATTAAGATTCTGGAAGCCAATGGGCCTCACAGGGCCCTGCACATCGCCAAGGCTCTGGGAATGACGAC
AGCCAAAGAAGTGAACCCACTCCTGTATTCCATGAGAAAATAAGCACCTTCTGAGCTATGACGGACAGACG
TGGAAGATCTACCACTCACGTACGGAAGGCCAAGACATAGTCTTGCCATGTAGCCCTGGATGTCCTAGAA
CTCACCATGTAGACCAAGCTGGTCTTGAACCCACAGAGATCTTCTTGCTTCTGCCTATTAATTCTGGGA
T

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG222181 representing NM_001139519
Red=Cloning site Green=Tags(s)

MAEAPVDLSTGDNLEQKILQVLSDGGPVKIGQLVKKCQVPKKTNLNQLYRLKKEDRVSSPEPATWSIGG
AASGDGAPAIPESSAQPSLDERILRFLEANGPHRALHIAKALGMTTAAKEVNPLLYSMRNKHLISYDQGT
WKIYHSRQEGQDIVLPCSPGCPRTHHVDQAGLEPTEIFLLLPIKFWD

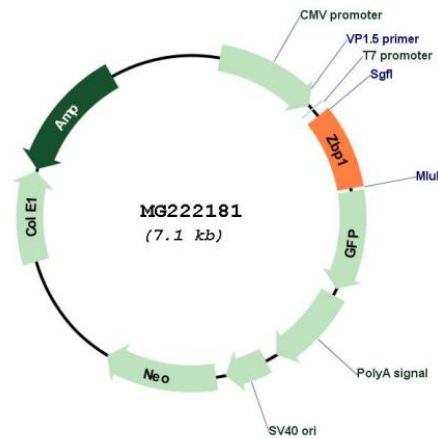
TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001139519

ORF Size: 561 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_001139519.1](#), [NP_001132991.1](#)

RefSeq Size: 781 bp

RefSeq ORF: 564 bp

Locus ID: 58203

UniProt ID: [Q9QY24](#)

Cytogenetics: 2 H3

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]