

## Product datasheet for **MC221645**

### Zc3hav1 (NM\_028864) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Zc3hav1 (NM_028864) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Zc3hav1
Synonyms:	1200014N16Rik; 2900058M19Rik; 9130009D18Rik; 9830115L13Rik; ARTD13; D6Bwg1452e; ZAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >MC221645 representing NM\_028864  
 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACGGATCCCAGGTATTCTGTTTCATACCAAGATCTGTGCGCTCACGGGGCCGCATGACCCTGG  
 AGGAACTGCTGGGTGAGATCAGCCTCCCGAAGCGCAACTCTACGAGCTGCTGAAGGCAGCAGGGCCCGA  
 TCGCTTTGTGCTATTGGAGACTGGAGACCAGCCGGGATCACTCGGTCCGGTGGTACTACTCGAGCC  
 CGCGTCTGCCGTCGAACTACTGCCAGAGACCCTGCGACAGCCTGCACCTTTGCAAGCTTAATCTGCTCG  
 GCCGGTGCCTACTGCACAGTCCAGCGGAACCTCTGCAAATATTCTCACGATGTTCTCTCGAACAGAA  
 CTTCCAGTCTGAAGAATCATGAGCTCTCCGGGCTTAACCAAGAGGAGCTGGCGGTCTCTGTTCCAA  
 AGCGACCTTTTCTCATGCCTGAGATATGCAAGAGTTACAAGGAGAGGGCCGCAACAGATCTGCGGGC  
 AGCCGCAGCCCTGCGAGAGACTCCACATCTGTGAGCACTTCAACCGGGCAACTGCAGTTACCTCAACTG  
 TCTCAGGTCTATAACCTGATGGACAGGAAGTGTGGCCATCATGAGGGAGCATGGGCTGAGTTCTGAT  
 GTGGTCCAGAACATCCAGGATATCTGCAACAACAACACTCGGAGGAACCCCTTAGCATGAGAGCTC  
 CCCACCCACATCGCAGAGGCGGGGCACACAGGGACAGAAGCAAAAGCAGAGACCGCTTCCATCACACAG  
 TCTAGAGGTTCTCTAACGGTCTCACCTCTGGGATCTGGTCCCCCTAGCCAGATGTACCAGGCTGAAG  
 GATCCCCCTGGAGGATGTGTCTGCAGATGTACCAGAAAGTTCAAGTACCTGGGGACTCAGGACCGTGCAC  
 AGCTTTCTCCGTCTCATCTAAGGCCGCTGGTGTCCGAGGACCCAGTCAAATGAGAGCAAGCCAGGAGTT  
 TTTGGAGGATGGGGATCCAGATGGCTGTTTTCTAGGAATCGTTCTGATTCGTCACAAGTCAACCTCT  
 GCTGCTGGCTTCTCTCGTTCGCGCACAAAGAAATGAAGCTGGGGCCATGAAAAATGGGCTGCCTTCAG  
 GACACCAGTTCGAGGTCAGGGCAAGAAGCAGGACATTGATCGCGTCCCGTTTTTAAATAGTTATATTGA  
 TGGGGTAACAATGGAAGAAGCAACAGTCTCAGGAATTCTAGGTAAGGGCCACAGACAACGGTCTGGAA  
 GAAATGATACTATCTAGCAACCATCAGAAGAGTGTGGCTAAGACCAGGATCCCCAGACCCTGGCAGAA  
 TCACTGACAGTGGCCAAGACACGGCATTCTGCATAGTAAATATGAAGAAAACCCAGCGTGGCCAGGTAC  
 ATCTACCATAACGGCCCAAATGGCTTTAGTCAAATATGGATGAAACGCCTAATGTCTCTAAAAGTAGT  
 CCCACTGGTTTTGGCATAAAAATCAGCAGTCACTGGAGGAAAAGAAGCAGTCTATTCTGGAGTTCAGAGTC  
 TGAGAAGCCATGCTGGCTATGCCTGGGAGACCACTACTCCTGTACAGGGCAGCAATAGGCTGCCTCC  
 GTCACCTCTGTCTTCTTCCACAAGCCACAGAGTGCAGCCTCTGGGAGCCCTGGCAAGAGCTCCACCCAT  
 GCCTCTGTGAGCCAGCCAGTGAAGCCCTCGAGGATGATGATGATGATGTCAGACCCTGCTGAGTATCC  
 TATGCTACATCGTAAATCCTGTATCTCCTAGGATGGATGATCATGGCCTGAAGGAAATCTGTCTGGATCA  
 TCTGTACAGGGGCTGTCAGCAGGTCAACTGCAACAAGAACCCTCCATCTGCCCTACCGGTGGCAGCTG  
 TTCATATTGCCCACTTGGATGGACTTTCAGGACATGGAGTATATCGAGCGGGCCTATTGTGATCCCCAAA  
 TTGAAATCATTGTGATAGAAAAACATCGGATCAATTTCAAGAAAATGACTTGTGATTCTACCCCATCCG  
 TCGCCTCTCCACTCCTTCATTTGTGAAAAAACTTAATTCTGTCTTACCACCAAGTGGCTTTGGTAT  
 TGGAGGAATGAATTGAATGAATACTCAGTATGGGCATGAGAGCCCAAGCCATACCAGCTCCGAAATTA  
 ATTCTGCATACCTGGAGTCTTTCTTCACTCCTGTCCCAGGGGAGTTTTGCAGTTCACGCTGGTTCACA  
 GAATTACGAGTTAAGCTTTCAAGGATGATTCAGACGAATATAGCTTCCAAGACTCAAAGGCATGTTGTG  
 AGAAGGCCAGTTTTTGTCTTTCGAAGGATGTGGAGCAGAAGAGAAGAGGTCCAGAGTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1786\\_c03.zip](https://cdn.origene.com/chromatograms/ja1786_c03.zip)

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_028864

**Insert Size:** 2370 bp

<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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_028864.2</a> , <a href="#">NP_083140.1</a>
<b>RefSeq Size:</b>	3396 bp
<b>RefSeq ORF:</b>	2370 bp
<b>Locus ID:</b>	78781
<b>UniProt ID:</b>	<a href="#">Q3UPF5</a>
<b>Cytogenetics:</b>	6 17.72 cM
<b>Gene Summary:</b>	<p>Antiviral protein which inhibits the replication of viruses by recruiting the cellular RNA degradation machineries to degrade the viral mRNAs. Binds to a ZAP-responsive element (ZRE) present in the target viral mRNA, recruits cellular poly(A)-specific ribonuclease PARN to remove the poly(A) tail, and the 3'-5' exoribonuclease complex exosome to degrade the RNA body from the 3'-end. It also recruits the decapping complex DCP1-DCP2 through RNA helicase p72 (DDX17) to remove the cap structure of the viral mRNA to initiate its degradation from the 5'-end. Its target viruses belong to families which include retroviridae: human immunodeficiency virus type 1 (HIV-1) and moloney and murine leukemia virus (MoMLV), filoviridae: ebola virus (EBOV) and marburg virus (MARV), togaviridae: sindbis virus (SINV) and Ross river virus (RRV). Specifically targets the multiply spliced but not unspliced or singly spliced HIV-1 mRNAs for degradation. Isoform 1 is a more potent viral inhibitor than isoform 2. Isoform 2 acts as a positive regulator of DDX58/RIG-I signaling resulting in activation of the downstream effector IRF3 leading to the expression of type I IFNs and IFN stimulated genes (ISGs).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) lacks several exons and its 3' terminal exon extends past a splice site that is used in variant 3. This results in a novel 3' coding region and 3' UTR, compared to variant 3. It encodes isoform 2 which is shorter and has a distinct C-terminus, compared to isoform 3.</p>