

## Product datasheet for **MC205171**

### Zcchc3 (NM\_175126) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Zcchc3 (NM_175126) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Zcchc3
Synonyms:	2810406K24Rik
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC05755  
 CGAGAGCGGTAGGGCGGGCGCTCGTCCGACAGAGGGGAGGCGAGCCGGGTCAAGACGAGCCGTCTCCGGC  
 CGGCACGAATCCCGCACGCAAGACTTCCAAGAGGGCGGAAGCCAGAAGCGTCGGGTTTCAGAGCGGGGG  
 CGGGGAGTCGCCACGCAGCCCGCGGCCCTCATCCCTATCCCGAGCGGGAGCGGCCATGGGCACCTCG  
 GACCGCGGAACGAGTGGAGGATGCTGGGAAAGAGTAACATGGCCACCGCGCGGAGCGGAGGAGGAG  
 TCACAGCGGGGCCGGCCCTCAGCTCCCGCTCCCCGCGACCCGTGGCCCGCTCGAGGAACCCGAGGGCG  
 TCCGCGAGAAGATGGGCTGGGCCAGGTGGTCAAGAACCCTGGCGGAGAAGAAGGGCGACTTCCCGAGCC  
 CGGGCGGCGCAGAACTGGCAGCGGTGCAAGTGGCGGGCTCGGCAGCCCCGGGGCCTGGCCACCCCG  
 AACCCCGCGACTTCCACCCCGCGCTCGCGGGGACCCAAAGGGCCCGCGCAGAGACCCTACGGGTGAGG  
 CGTCAGACGCTTACAGGAAAAAGAGCGCGAGCGCGGGAGACCCGAGTCGAAGGAAGAAGGCCGAGGT  
 GACGGCGGCCATGGCGACCCCGCCAGGCCCGGCACGACCGAAGATGCCACCGAGCGACCCTCCAGGAC  
 GAGCCACCGGCTGCCGGCCGGTAAGGGCCGCTTCTCGTGCGCATCTGTTTCCAGGGAGACGAAAGTG  
 CCTGTCCGACCCGGGACTTCGTGGTGGGCGCGCTCATCCTGCGCTCCATCGGCATGGACCCTGACGACAT  
 CTACGCGGTCAATCAGATCCCCGCGAGCCGCGAGTTCGACGTGAGTTTCCGATCCGCCAAAAGCTAGCC  
 CTGTTTCTCCGCTCTACGAGGAGAAGCGAGAGCTGGAGGACTGCTGGGAGAACTTTGTGGTTTTGGGGC  
 GGAGCAGTCCAGCCTGAAGACCCTTTCATCCTTCCGGAACGAGACCGTGGAGCTGGAGGACATCGT  
 GACCTGGCTCAAGCGCCACTGCGACGTGCTGGCCGTGCCCGTGAAGTGACCGACAGGTTCCGGATCTGG  
 ACCGGGGAGTACAAGTGCAGATCGAGCTGCGCCAGGGGGAGGGCGGAGTGAGGCACCTGCCCGGGGCT  
 TCTTCTGGGAGCGGAGAGGGGCTACAGCTGGTACAAGGGGCGAGCCAAAGACGTGCTTTAAGTGTGGTTC  
 CCGGACCCACATGAGCGGCACCTGCACGCAGGACAGGTGTTTCAGGTGCGGGGAAGAGGGGCACCTGAGC  
 CCTTACTGCCGAAGGTCACTGTGTCAACCTCTGTGGCAAAAGAGGACACGCCTTTGCCAGTGTCCCA  
 AAGCAGTTCACAATCCGTGACAGCTCAGTCCACGCGTGGCGGGGCACTGAAGGCGCGACTGCCTGCC  
 AGGTGAATAACACTGCCAGCTTACCCCTCCCTAAGTGCCAAAACCTTTTTTTTTAACCTTTTTTTTTTAA  
 TCGTTTTGAATGGAGATATTTCTAAAACCTACCAGAGACGTTCTCTATGCCTTTTTTAAACCGGTGT  
 GCTCCTTTTTGGCATGTTTGAATGGTGAATTTTTGCCCGTAAGAACTATTCAGAACCATTGCATACAGA  
 TATATTTTTTTCTCCCGTTTGTATTTGTTTTGGTACTTTCTACTCCCCTCCCCTACTACTTTT  
 TATTTTACTACCTCCCTCCTACATTTAATCCTTAAAAGTTTTAGCCCTTTGGGCCGCTTGGTCAT  
 TATGCCTCCAGCCAGGGTACTGGGCCAACCGGGATAGACACTTATCAAGTCTTTCATTGAATCAA  
 AACGGTATCGACTGGCTTCTGTCAAAGTGTCTACCTTTTGAACCTCTGCTGGGCCCTTTTTATTTGC  
 TGCTTCTGTGGTATCAGACTTTGTAAAACAGTGTGCTAGAAGTGTGATTCTGAATAAGCTCTGAA  
 TGGTGGCCAAGGGCCTCTCGTGGCAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Ascl-NotI

**ACCN:** NM\_175126

**Insert Size:** 1203 bp

**OTI Disclaimer:** 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).

**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:** [BC055755](#), [AAH55755](#)

**RefSeq Size:** 2072 bp

**RefSeq ORF:** 1203 bp

**Locus ID:** 67917

**UniProt ID:** [Q8BPK2](#)

**Cytogenetics:** 2 G3

**Gene Summary:** Nucleic acid-binding protein involved in innate immune response to DNA and RNA viruses (PubMed:30193849, PubMed:30135424). Binds DNA and RNA in the cytoplasm and acts by promoting recognition of viral nucleic acids by virus sensors, such as DDX58/RIG-I, IFIH1/MDA5 and CGAS (PubMed:30193849, PubMed:30135424). Acts as a co-sensor for recognition of double-stranded DNA (dsDNA) by cGAS in the cytoplasm, thereby playing a role in innate immune response to cytosolic dsDNA and DNA virus (By similarity). Binds dsDNA and probably acts by promoting sensing of dsDNA by CGAS, leading to enhance CGAS oligomerization and activation (By similarity). Promotes sensing of viral RNA by RIG-I-like receptors proteins DDX58/RIG-I and IFIH1/MDA5 via two mechanisms: binds double-stranded RNA (dsRNA), enhancing the binding of DDX58/RIG-I and IFIH1/MDA5 to dsRNA and promotes 'Lys-63'-linked ubiquitination and subsequent activation of DDX58/RIG-I and IFIH1/MDA5 (By similarity).[UniProtKB/Swiss-Prot Function]