

Product datasheet for **SC320537**

ZCCHC3 (NM_033089) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZCCHC3 (NM_033089) Human Untagged Clone
Tag:	Tag Free
Symbol:	ZCCHC3
Synonyms:	C20orf99
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_033089.6

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GGAGGATGCTGGGAAGGAGGTAAATGGCCACCGCGCGCGCGGAGGAAGAGAGGAAA
CGGGGGCGGCGCAGCTTCTGCCCCCGCGCGCCCGCGCGCGGGGCGAGGAGGCCGAC
GGCGGCCGCGAGAAGATGGGCTGGGCCAGGTGGTGAAGAATCTAGCCGAGAAGAAGGGC
GAATTCGCGGAGCCGCGCGCGCGCGCGGGAGGAGGAAAGCGGCGCGGTGGAGGGAGC
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GGCCGCGGGGACCCGAAGGGCCGTCGAGAGATCCGGCCGCGAGGCGGTGGACCCCGC
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CTGATCTCTCCAGAATGATCAGCCAGAGGAATGCTGAGAAATCACCTGGAGGAGGGAGC
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TAAATGATTGTTAAAGTTTTGTTCTGAATAAATATTTATCTTTGTATTGCTAAAAA
AAAAAAAAAAAAA

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Restriction Sites: Please inquire

ACCN: NM_033089

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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_033089.6</u> , <u>NP_149080.2</u>
RefSeq Size:	2773 bp
RefSeq ORF:	1212 bp
Locus ID:	85364
UniProt ID:	<u>Q9NUD5</u>
Cytogenetics:	20p13
Domains:	zf-CCHC
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 (PubMed:30135424). Binds dsDNA and probably acts by promoting sensing of dsDNA by CGAS, leading to enhance CGAS oligomerization and activation (PubMed:30135424). 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 (PubMed:30193849).[UniProtKB/Swiss-Prot Function]