

Product datasheet for **SC215158**

ZCCHC3 (NM_033089) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Symbol:	ZCCHC3
Synonyms:	C20orf99
Mammalian Cell	Neomycin
Selection:	
Vector:	pMirTarget (PSI00062)
ACCN:	NM_033089
Insert Size:	1553 bp



Insert Sequence:

>SC215158 3'UTR clone of NM_033089

The sequence shown below is from the reference sequence of NM_033089. The complete sequence of this clone may contain minor differences, such as SNPs.

Blue=Stop Codon Red=Cloning site

```
GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAGCGATCGCC
GCTCAGCTAACCGGCGTGGCCGGGCACTAACACCCCGCTGCCTGCCAGGGTGAACACACAGCCAGCTT
ATCCCTCTTAAGTGCCAAAACCTTTTTTTAAACCATTTTTATCGTTTTGAAGGAGATCTTTTTAAAA
CCTACAAGAGACATCTCTATGCCTTCTTAAACCGAGTTTACTCCATTTCAGCCTGTTCTGAATTGGT
GACTCTGTACCAATAACGACTGCGGAGAACTGTAGCGTGCAGATGTGTGCCCTCCCTTTTAAAT
TTATTTTCGTTTTTCTATTGGTATTGTTTTGTTTCTGTACTTTTTCTCTCTCCTTGCCCCCTC
CCGCCCTCCCCGCCCATACCTTTTCTCCCTGGATTTTACCCTTTGGGCTGCCTTGCTCATCTTTA
TGCCCCAGCACTAGGTACGGGGCCCAACAGTGGTAGGCACTCCATCAGTGTGTGCTGAATTGAAAACA
TTGTTGACTGTGGCTTCTATCAGAGTGTCTACCTTTTGCAGCTCTTCCCTCCCTCATTTAATTTGCTG
CTTTTAATCTACGTGGTCTGAGAAATTTGTGAAACCAGTGTGTAGAAAGTGTATATAATCTGAATCAAT
AAGCTCTGAATGGTGGCCAAGGGCTCTCTTATGGCACAAGATGCATGGACTTCATGACAGCTCTTTT
GGTGGCTCAGAAGCCATTTTTATAGAATCATGGAATCTAGAATATTCCTGCTGGAAGAAGCTGAGAG
TTGTTTGGACCAATTCCTGGTTTTCCAGCAGATGAAACAGGCCCAAAGAGGTTAAATGACTGGGTGA
AAATCACATAGCTGTCTGGTGCCAGAGCCAGCCTATAGTAGAGTCCCCTGACCCCAAGCCCGGTGCTCA
TTCCACTACCTCTCACACTTCACAACAATTTCTCAACTTGAGGGCCAGAAAGTCTGATCTCTCCA
GAATGATCAGCCCAGAGGAATGCTGAGAAATCACCTGGAGGAGGAGCAGAAAGAGAAGGTTTTAAGG
AGGGGCTTCTGAATACTTGGGAGATACGGAACGGACCAAGGACCACACTCCAGGGTGCATTCTGCTC
CCTGGGGCACCACCTCTGGATTACAGTGTGCCAGGTCTTTGGAGGCCCTACCCCTTCCCCATTCTTG
CCACAGTGAGAAATGGGGTGCCCTGTGTAAGAAACCTACCAAAGGTTTACATTTGCACCTTAGCC
TCAATAGCTACGAACCTTAGAGAAGCAGTAGCTGGAGCTCATGTGCAACTCTGATTCTCAGGAGAAA
GATGGATTTTAACCCAAAATTATGAGTGAGCTGTTAACTCTAAATGTACTTGGGAGATAGGCCAAGCG
AGAGGTCATGGGCCAACTAAGTGTTATCCAGTAGAAAAGACAGTACACTGCTTTTCTTTTAGTGTTC
TTTTCTTTGCTATATGTTTGCTATTTCTTGTGGCTTAGAATGTAAAATTGATTGTAAAAGTTTTG
TTCTGAATAAATATTTATCTTTGTATTGCTAAAA
ACGCGTAAGCGGCCGCGCATCTAGATTGAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTTGATTCCACCGCCGCTTCTATGAAAGG
```

Restriction Sites:

SgfI-MluI

OTI Disclaimer:

Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

Components:

The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

Note:

Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq:

NM_033089.7

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]

Locus ID:

85364

MW:

57.3