

Product datasheet for **SC102596**

STING (TMEM173) (AK095896) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STING (TMEM173) (AK095896) Human Untagged Clone
Tag:	Tag Free
Symbol:	STING
Synonyms:	ERIS; hMITA; hSTING; MITA; MPYS; NET23; SAVI; STING
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for AK095896, the custom clone sequence may differ by one or more nucleotides

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AAACCAGAAGAAAAATGAGACGGGGAATCATCGTGTGATGTGTGTGCTGCCTTTGGCTGAGTGTGTGG
AGTCCTGCTCAGGTGTTAGGTACAGTGTGTTTGATCGTGGTGGCTTGAGGGGAACCCGCTGTTCCAGAGCT
GTGACTGCGGCTGCACTCAGAGAAGCTGCCCTTGGCTGCTCGTAGCGCCGGCCCTTCTCTCCTCGTCATC
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GCCCTTAAAGCCTAGCTGTGATCGGCACCCCCACCCACTAGAGTACTCCCTCTCACTTGGGTTTCT
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5' Read Nucleotide Sequence:

>OriGene 5' read for AK095896 unedited
 AAATTTTGTATACGACGTCACTATAGGGCGGCCGGAATTCGCACGAGGACATAGACATC
 TGAGGAAAGAATGAGGGAGGGTAAAGGGTGGTGCAGTAAGAGGAGGGTGGGAGGGCTT
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 GACCAGGGTACCAGCCAGAGCCTNCAGTGTCTCCAGCTCTGACTGGGGCTCTCTCATGGC
 TGAATGTCACANACTATTCCTTCAGGGNCTGCAGGGA

3' Read Nucleotide Sequence:

>OriGene 3' read for AK095896 unedited
 GAATACTGTGTACGCGGCCGAATCCACGATCGATTTTTTTTTTTTTTTTTTTTTTTTTT
 TTTTTTTTTTTTTTTTTTAACTCTGGAAGTGCCTTAAAAAAGACCGTTTAAAAAGGGT
 GGAGTATAAGGAAACCCCAAGTAAAGGGAGTACTCTATTGGGGTGGGGTCCCCATACA
 CAACTAGGCTTAAGGGGCCAGGGAAGAAATGGTGCCAAAATCCTAGAAATAGTCATGAT
 TACCCAAGAATTGCCCGCCGAAATTCATACCACCCTTTATTCTCCAGGTGGGACCC
 CGGGGAATCAATTCCTCAAACTCATCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTC
 CCAATAATGGAACATTGACCAGGACCCAAGGCCCTAAAGACCCTGTTTACCCATTGAAA
 GAGTTCGGCGTCCCGGGACAAGGAAGGGGAAAAGGGGGCGAGTGCCTCCTAGACACT
 ATGTAACGCACCACGGACATACCCAGCACAAGTCTACACAACTACAAGTCTAAATG
 TGACCTACTCCACGCGGAAGAGGGGAACACTGGGAGGAGTGAGAGGAGTGAATCACCAGA
 ATCAGCACACCACAACAGCAGCAGCAACAACAGGACAGAGTGACGCGAGCGGTGAACAG
 CAAGGGGCGGAAACCGCAAACAAAAAACCCACACATACAGGAGAAAACGGAACGAA
 CAAGAGTAAAAACAAAGACACAAGAACAGGAAGAAAAATAAAGTATACCGAGCACGTAG
 CATCGACATTACGGAGTTACGTAACCTTGCCACATCCTGGTAAGATATGTTTAATATTC
 GGTGATTCGCAATTTTACCCGCGGGCGGCACAGGCTCCACCACCCGCCCCGACGA
 ACGGAAAGCAGCGCAGAACGGGCCAA

Restriction Sites:

NotI-NotI

ACCN:

AK095896

Insert Size:

1750 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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: [AK095896.1](#)

RefSeq Size: 3200 bp

RefSeq ORF: 3200 bp

Locus ID: 340061

Cytogenetics: 5q31.2

Protein Pathways: Cytosolic DNA-sensing pathway, RIG-I-like receptor signaling pathway

Gene Summary: This gene encodes a five transmembrane protein that functions as a major regulator of the innate immune response to viral and bacterial infections. The encoded protein is a pattern recognition receptor that detects cytosolic nucleic acids and transmits signals that activate type I interferon responses. The encoded protein has also been shown to play a role in apoptotic signaling by associating with type II major histocompatibility complex. Mutations in this gene are the cause of infantile-onset STING-associated vasculopathy. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Sep 2014]