

## Product datasheet for **SC321845**

### STING (TMEM173) (NM\_198282) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	STING (TMEM173) (NM_198282) Human Untagged Clone
Tag:	Tag Free
Symbol:	STING
Synonyms:	ERIS; hMITA; hSTING; MITA; MPYS; NET23; SAVI; STING; STING-beta; TMEM173
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\_198282.1  
 GCATCCTGGTAACCAGAAGAAAAATATGAGACGGGAATCATCGTGTGATGTGTGTGCTG  
 CCTTTGGCTGAGTGTGTGGAGTCTGCTCAGGTGTTAGGTACAGTGTGTTTATCGTGGT  
 GGCTTGAGGGGAACCCGCTGTTCCAGAGCTGTGACTGCGGCTGCACTCAGAGAAGCTGCC  
 TTGGCTGCTCGTAGCGCCGGCCTTCTCTCCTCGTCATCATCCAGAGCAGCCAGTGTCCG  
 GGAGGCAGAAGATGCCCCACTCCAGCCTGCATCCATCCATCCCCTGTCCCAGGGTCCG  
 GGGCCCAAGAGCAGCCTTGTTCTGCTGAGTGCCTGCCTGGTGACCCCTTGGGGCTAG  
 GAGAGCCACCAGAGCACACTCTCCGGTACCTGGTGTCCACCTAGCCTCCCTGCAGCTGG  
 GACTGCTGTTAAACGGGGTCTGCAGCCTGGCTGAGGAGCTGCGCCACATCCACTCCAGT  
 ACCGGGGCAGCTACTGGAGGACTGTGCGGGCCTGCCTGGGCTGCCCCCTCCGCCGTGGG  
 CCCTGTTGCTGTGCTCATTTTCTACTACTCCCTCCCAAATGCGGTGCGCCGCCCT  
 TCACTTGGATGCTTGCCTCCTGGGCCTCTCGCAGGCACTGAACATCCTCCTGGGCCTCA  
 AGGGCCTGGCCCCAGCTGAGATCTCTGCAGTGTGTGAAAAGGGAATTTCAACGTGGCC  
 ATGGGCTGGCATGGTCATATTACATCGGATATCTGCGGCTGATCCTGCCAGAGCTCCAGG  
 CCCGGATTGAACTTACAATCAGCATTACAACAACCTGCTACGGGGTGCAGTGAGCCAGC  
 GGCTGTATATTCTCCTCCATTGACTGTGGGGTGCCTGATAACCTGAGTATGGCTGACC  
 CCAACATTCGCTTCTGGATAAACTGCCCCAGCAGACCGGTGACCATGCTGGCATCAAGG  
 ATCGGGTTTACAGCAACAGCATCTATGAGCTTCTGGAGAACGGGCAGCGGGCGGGCACCT  
 GTGTCCTGGAGTACGCCACCCCTTGCAGACTTGTGTTGCCATGTCAAAATACAGTCAAG  
 CTGGCTTTAGCCGGGAGGATAGGCTTGAGCAGGCCAACTCTTCTGCCGGACACTTGAGG  
 ACATCCTGGCAGATGCCCTGAGTCTCAGAACAACCTGCCGCTCATTGCCTACCAGGAAC  
 TGCAGATGACAGCAGCTTCTCGCTGTCCAGGAGGTTCTCCGGCACCTGCGGCAGGAGG  
 AAAAGGAAGAGGTTACTGTGGCAGCTTGAAGACCTCAGCGGTGCCAGTACCTCCACGA  
 TGTCCTCAAGAGCCTGAGCTCCTCATCAGTGGAATGGAAAAGCCCTCCCTCTCCGCACGG  
 ATTTCTTTGAGACCCAGGGTACCAGGCCAGAGCCTCCAGTGGTCTCCAAGCCTCTGGA  
 CTGGGGGCTCTTTCAGTGGCTGAATGTCCAGCAGAGCTATTTCTTCCACAGGGGGCCT  
 TGCAGGGAAGGGTCCAGGACTTGACATCTTAAGATGCGTCTTGTCCCCTTGGGCCAGTCA  
 TTTCCCCTCTGAGCCTCGGTGTCTTCAACCTGTGAAATGGGATCATAACTACTGCCTT  
 ACCTCCCTCACGGTTGTGTGAGGACTGAGTGTGTGGAAGTTTTTCATAAACTTTGGATG  
 CTAGTGTAATAAAAAAAAAAAAAAAAAAAAAAAAAA

- Restriction Sites:** Please inquire
- ACCN:** NM\_198282
- Insert Size:** 1140 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).
- 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:** [NM\\_198282.1](#), [NP\\_938023.1](#)

**RefSeq Size:** 1714 bp

**RefSeq ORF:** 1140 bp

**Locus ID:** 340061

**UniProt ID:** [Q86WV6](#)

**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]  
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).