

Product datasheet for **RG208418**

STING (TMEM173) (NM_198282) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STING (TMEM173) (NM_198282) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	STING
Synonyms:	ERIS; hMITA; hSTING; MITA; MPYS; NET23; SAVI; STING; STING-beta; TMEM173
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208418 representing NM_198282 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCACTCCAGCCTGCATCCATCCATCCCCTGTCCCAGGGGTACGGGGCCAGAAGGCAGCCTTGG
TTCTGCTGAGTGCCTGCCTGGTGACCCTTTGGGGCTAGGAGAGCCACCAGAGCACACTCCTCGGTACCT
GGTGTCCACCTAGCCTCCCTGCAGCTGGGACTGCTGTTAAACGGGGTCTGCAGCCTGGCTGAGGAGCTG
CGCCACATCCACTCCAGGTACCGGGCAGCTACTGGAGGACTGTGCGGGCCTGCCTGGGCTGCCCTCC
GCCGTGGGGCCCTGTTGCTGCTGCCATCTATTTCTACTACTCCCTCCCAATGCGGTGCGCCCGCCCTT
CACTTGGATGCTTGCCTCCTGGCCTCTCGCAGGCACTGAACATCCTCCTGGGCCTCAAGGGCCTGGCC
CCAGCTGAGATCTCTGCAGTGTGTGAAAAGGGAAATTTCAACGTGGCCCATGGGCTGGCATGGTCATATT
ACATCGGATATCTGCGGCTGATCCTGCCAGAGCTCCAGGCCCGGATTCGAACTTACAATCAGCATTACAA
CAACCTGCTACGGGGTGCAGTGAGCCAGCGGCTGTATATTCTCCTCCCATGGACTGTGGGGTGCCTGAT
AACCTGAGTATGGCTGACCCCAACATTCGCTTCTGGATAAACTGCCAGCAGACCGGTGACCATGCTG
GCATCAAGGATCGGGTTACAGCAACAGCATCTATGAGCTTCTGGAGAACGGGCAGCGGGCGGGCACCTG
TGTCTGGAGTACGCCACCCCTTGACAGCTTTGTTTCCCATGTACAATACAGTCAAGCTGGCTTTAGC
CGGGAGGATAGGCTTGAGCAGGCCAAACTCTTCTGCCGACACTGAGGACATCCTGGCAGATGCCCTG
AGTCTCAGAACAACCTGCCGCTCATTGCCTACCAGGAACCTGCAGATGACAGCAGCTTCTCGCTGTCCCA
GGAGGTTCTCCGGCACCTGCGGCAGGAGAAAAGGAGGTTACTGTGGGCAGCTTGAAGACCTCAGCG
GTGCCAGTACCTCCACGATGTCCCAAGAGCCTGAGCTCCTCATCAGTGGAAATGGAAAAGCCCTCCCTC
TCCGCACGGATTCTCT

ACGGTACGGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG208418 representing NM_198282
 Red=Cloning site Green=Tags(s)

MPHSSLHPSIPCRGHGAQKAALVLLSACLVTLWGLGEPPEHTLRYLVLHLASLQLGLLNGVCSLAEEL
 RHIHSRYRGSYWRTVRACLGCPLRRGALLLSIYFYSLPNAVGPPFTWMLALLGLSQALNILLGLKGLA
 PAEISAVCEKGNFNVAHGLAWSYIYGLRLILPELQARIRTYNQHYNNLLRGAVSQRLYILLPLDCGVDP
 NLSMADPNIRFLDKLPQQTGDHAGIKDRVYSNSIYELLENGQRAGTCVLEYATPLQTLFAMSQYSQAGFS
 REDRLEQAKLFCRTLEDILADAPESQNNCRLIAYQEPADSSFSLSQEVLRHLRQEEKEEVTVGS�KTS
 VPSTSTMSQPELLISGMEKPLPLRTDFS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_198282

ORF Size: 1137 bp

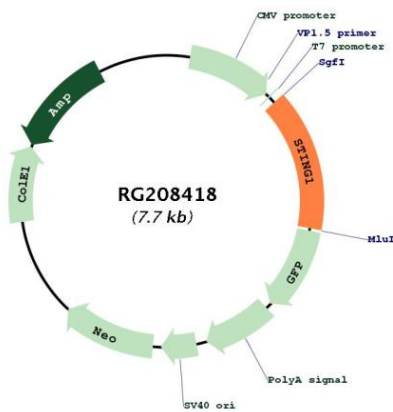
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<ol style="list-style-type: none"> 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_198282.4</u>
RefSeq Size:	1714 bp
RefSeq ORF:	1140 bp
Locus ID:	340061
UniProt ID:	<u>Q86WV6</u>
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]

Product images:



Circular map for RG208418