

Product datasheet for **RG237169**

STING (TMEM173) (NM_001301738) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STING (TMEM173) (NM_001301738) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	STING1
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:	>RG237169 representing NM_001301738. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGCCCCACTCCAGCCTGCATCCATCCATCCCGTGTCCCAGGGGTACGGGGCCAGAAGGCAGCCTTG
GTTCTGCTGAGTGCCTGCCTGGTGACCCTTTGGGGCTAGGAGAGCCACCAGAGCACACTCTCCGGTAC
CTGGTGTCCACCTAGCCTCCCTGCAGCTGGGACTGCTGTTAAACGGGTCTGCAGCCTGGCTGAGGAG
CTGCGCCACATCCACTCCAGGTACCGGGCAGCTACTGGAGGACTGTGCGGGCCTGCCTGGGCTGCCCC
CTCCGCCGTGGGCCCTGTTGCTGCTGTCCATCTATTTCTACTACTCCCTCCCAAATGCGGTGCGCCCG
CCCTTCACTTGGATGCTTGCCCTCCTGGGCTCTCGCAGGCACTGAACATCCTCCTGGGCTCAAGGGC
CTGGCCCCAGCTGAGATCTCTGCAGTGTGTGAAAAGGGAATTTCAACGTGGCCCATGGGCTGGCATGG
TCATATTACATCGGATATCTGCGGCTGATCCTGCCAGAGCTCCAGGCCGGATTCAACTTACAATCAG
CATTACAACAACCTGCTACGGGGTGCACTGAGCCAGCGGCTGTATATTCTCCTCCATTGGACTGTGGG
GTGCTGATAACCTGAGTATGGCTGACCCCAACATTTCGCTTCTGGATAAACTGCCCCAGCAGACCGGT
GACCATGCTGGCATCAAGGATCGGGTTACAGCAACAGCATCTATGAGCTTCTGGAGAACGGGCAGCGG
AACCTGCAGATGACAGCAGCTTCTCGTGTCCAGGAGTTCTCCGGCACCTGCGGCAGGAGGAAAAGG
AAGAGGTTACTGTGGGCAGCT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



[View online »](#)

Protein Sequence: >Peptide sequence encoded by RG237169
 Blue=ORF Red=Cloning site Green=Tag(s)

MPHSSLHPSIPCRHGGAQKAALVLLSACLVTLWGLGEPPEHTLRYLVLHLASLQLGLLLNGVCSLAEELRHIHSRYRGSYWRVTRACLGCP LRRGALLLSIYFYSLPNAVGPFTWMLALLGLSQALNILLGLKGLAPAEISAVCEKGNFVAHGLAWSYYIGYLRLLPELQARIRTYNQHYNNLLRGAVSQRLYILLPLDCGVPDNLSMADPNIRFLDKLPQQTGDHAGIKDRVYSNSIYELLENGQRNLQMTAASRCPRRFSGTCGRRKRKRLWAA

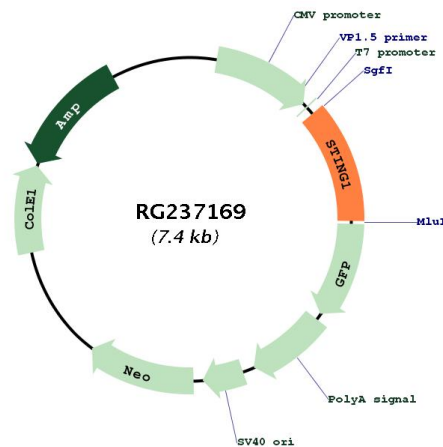
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHVMGYGFYHFGTYPSTYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEDSVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFAFRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001301738

ORF Size:	849 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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).
RefSeq:	NM_001301738.2
RefSeq Size:	1795 bp
RefSeq ORF:	852 bp
Locus ID:	340061
Cytogenetics:	5q31.2
Protein Pathways:	Cytosolic DNA-sensing pathway, RIG-I-like receptor signaling pathway
MW:	32.1 kDa
Gene Summary:	<p>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]</p>