

## Product datasheet for **KN208418**

### STING (TMEM173) Human Gene Knockout Kit (CRISPR)

#### Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 GFP-puro donor, 1 scramble control
Donor DNA:	GFP-puro
Symbol:	STING
Locus ID:	340061
Components:	<p><b>KN208418G1</b>, STING gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: ATCCATCCATCCCGTGTC</p> <p><b>KN208418G2</b>, STING gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TGCCTGCCTGGTGACCCTTT</p> <p><b>KN208418D</b>, donor DNA containing left and right homologous arms and GFP-puro functional cassette.</p>

Homologous arm and GFP-puro sequences:

pUC vector backbone in gray; **Left arm sequence in blue**; **GFP-puro in green**; **Right arm in violet**

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AAGGCGAGTT ACATGATCCC CCATGTTGTG CAAAAAAGCG GTTAGCTCCT TCGGTCCTCC GATCGTTGTC
AGAAGTAAGT TGGCCGAGT GTTATCACTC ATGGTTATGG CAGCACTGCA TAATTCTCTT ACTGTCATGC
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 ACCATCTGGC CCCAGTGTG CAATGATACC GCGAGACCCA CGCTCACCGG CTCAGATTT ATCAGCAATA  
 AACAGCCAG CCGGAAGGGC CGAGCGCAGA AGTGGTCTG CAACTTTATC GCGCTCCATC CAGTCTATTA  
 ATTGTTGCCG GGAAGCTAGA GTAAGTAGTT CGCCAGTTAA TAGTTTGC GC AACGTTGTTG CCATTGCTAC  
 AGGCATCGTG GTGTCACGCT CGTCGTTTGG TATGGCTTCA TTCAGCTCCG GTTCCCAACG ATC

**GE100003**, scramble sequence in pCas-Guide vector

**Disclaimer:**

These products are manufactured and supplied by OriGene under license from ERS. The kit is designed based on the best knowledge of CRISPR technology. The system has been functionally validated for knocking-in the cassette downstream the native promoter. The efficiency of the knock-out varies due to the nature of the biology and the complexity of the experimental process.

**RefSeq:**

[NM\\_001301738](#), [NM\\_198282](#), [NM\\_001367258](#)

**UniProt ID:**

[Q86WV6](#)

**Synonyms:**

ERIS; hMITA; hSTING; MITA; MPYS; NET23; SAVI; STING

**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:

