

Product datasheet for **KN208418RB**

STING (TMEM173) Human Gene Knockout Kit (CRISPR)

Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control
Donor DNA:	RFP-BSD
Symbol:	STING
Locus ID:	340061
Components:	<p>KN208418G1, STING gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: ATCCATCCATCCCGTGTC</p> <p>KN208418G2, STING gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TGCCTGCCTGGTGACCCTTT</p> <p>KN208418RBD, donor DNA containing left and right homologous arms and RFP-BSD functional cassette.</p> <p>Homologous arm and RFP-BSD sequences: pUC vector backbone in gray; Left arm sequence in blue; RFP-BSD in green; Right arm in violet</p> <pre> AAGGCGAGTT ACATGATCCC CCATGTTGTG CAAAAAAGCG GTTAGCTCCT TCGGTCCTCC GATCGTTGTC AGAAGTAAGT TGGCCGAGT GTTATCACTC ATGGTTATGG CAGCACTGCA TAATTCTCTT ACTGTCATGC CATCCGTAAG ATGCTTTTCT GTGACTGGTG AGTACTCAAC CAAGTCATTC TGAGAATAGT GTATGCGGCG ACCGAGTTGC TCTTGCCCGG CGTCAATACG GGATAATACC GCGCCACATA GCAGAATCTT AAAAGTGCTC ATCATTGGAA AACGTTCTC GGGGCGAAAA CTCTCAAGGA TCTTACCCTT GTTGAGATCC AGTTCGATGT AACCCACTCG TGCACCCAAC TGATCTTCAG CATCTTTTAC TTTACCACAG GTTTCTGGGT GAGCAAAAAC AGGAAGGCAA AATGCCGCAA AAAAGGGAAT AAGGGCGACA CGGAAATGTT GAATACTCAT ACTCTTCCTT TTTCAATATT ATTGAAGCAT TTATCAGGT TATTGTCTCA TGAGCGGATA CATATTTGAA TGTATTTAGA AAAATAACA AATAGGGGTT CCGCGCAT TCCCCGAAA AGTGCCACCT GACGTCTAAG AAACCATTAT TATCATGACA TTAACCTATA AAAATAGGCG TATCACGAGG CCCTTTCGGG TCGCGGTTT CGGTGATGAC GGTAAAACC TCTGACACAT GCAGCTCCCG TTGACGGTCA CAGCTTGCT GTAAGCGGAT GCCGGGAGCA GACAAGCCCG TCAGGGCGCG TCAGCGGGTG TTGGCGGGTG TCGGGGCTGG CTTAACTATG CGGCATCAGA GCAGATTGTA CTGAGAGTGC ACCATAAAAT TGTAACGTT AATATTTTGT TAAAATTCGC GTTAAATTTT TGTTAAATCA GCTCATTTTT TAACCAATAG GCCGAAATCG GCAAAATCCC TTATAATCA AAAGAATAGC CCGAGATAGG GTTGAGTGTT GTTCCAGTTT GGAACAAGAG TCCACTATTA AAGAACGTGG ACTCCAACGT CAAAGGGCGA AAAACCGTCT ATCAGGGCGA TGGCCCACTA CGTGAACCAT CACCAAATC AAGTTTTTTG GGGTCGAGGT GCCGTAAAGC ACTAAATCGG AACCCATAAG GGAGCCCCCG ATTTAGAGCT TGACGGGGAA AGCCGGCGAA CGTGCGGAGA AAGGAAGGGA AGAAAGCGAA AGGAGCGGGC GCTAGGGCGC TGGCAAGTGT AGCGGTACG CTGCGGTAA CCACCACACC CGCCGCGCTT AATGCGCCGC TACAGGGCGC GACTATGGT TGCTTTGACG TATGCGGTGT GAAATACCGC ACAGATCGCT AAGGAGAAAA TACCGCATCA GGCGCCATTC GCCATTCAGG CTGCGCAACT GTTGGGAAGG GCGATCGGTG CGGGCCTCTT CGTATTACG CCAGCTGGCG AAAGGGGAT GTGCTGCAAG GCGATTAAGT TGGGTAACGC CAGGGTTTTT CCAGTCACGA CGTTGTAATA CGACGGCCAG TGAATTGGAG GCTACAGTCA GTGGAGAGGA CTTTCACAGG CTGTCGCCGT GCTCATTTGA </pre>



TAACTGCCCG TTATTCATGC GACACAGGCT GCACTCAGAG AAGCTGCCCT TGGCTGCTCG TAGCGCCGGG
 CCTTCTCTCC TCGTCATCAT CCAGAGCAGC CAGTGTCCGG GAGGCAGAAG GTAGGCTCAA GATCAGCCTG
 GCAGAACGCC AACCTAGGG CCCCTGGCAC CCAGAGGCGA GGGGGTGCCT GCTGGCTGCC CTGTCCCCAC
 TCCTTGAGCT CTGTTTTCCA CTTTGTGAC TAAGTCTCT CCTGGGGTGG GTTCCGGGA CAGGGGAACC
 CAGGTCCCA AGGGTCTTG GTTGGGTACG GCTGCACAGG ACAGCTTCAA GTCTGGGTCT GGGATAGTTG
 CTGCCTTCTT TCTTCACCAC ACCTGTGGTC TCCCTGGGTC TTGGTGGGGC GTGTATGTG AGGCCCTGCT
 CTGTTTTAG CAAACCTCGC TGAGACAGGA GCTTTGGGGT GACTTATTCC CAGCTGCCT CCTAGAGGTG
 TCTCTAAGAG CAGCCTCTGG GAGTGGCTGG GCACCAGGGA AAGGGGAAGT GGGAGGAAGT GCCCAGCCAG
 AGCCTCAGTC CCAGAAGGGC AGGAGGGCAA GGGGAGAATG GTCATGGATT TCTTGGTGCC CACAGTAGGA
 GAGCCACCAG AGCACACTCT CCGGTACCTG GTGCTCCACC TAGCCTCCCT GCAGCTGGGA CTGCTGTAA
 ACGGGGTCTG CAGCCTGGCT GAGGAGCTGC GCCACATCCA CTCCAGGTGA CTCACTGCAG TACCCAGGGA
 CGGGGTATCC AACGTGTGTC ACTCCCTTGA TGCCTAGCCC TGCCCTCCT TGAACCTCTC TGGCTGAGCT
 GGGCTGGGG CTGGGTCTG GGGTCTGGCT GCACTCACA GGTACCGGG CAGCTACTGG AGGACTGTGC
 GGGCTGCCT GGGCTGCC CCGCCCTG GGGCCCTGTT GCTGCTGTCC ATCTATTCT ACTACTCCT
 CCCAATGCG GTCGGCCGC CTTCACTTG GATGCTTCC CTCTGGGCC TCTCGCAGG ACTGAACATC
 CTCTGGGCC TCAAGGTATG ACACAGGGGG AGGTAGAAGC TCTGGCCAAG TGGTGGCTGT GGCTGGTGTG
 ACCTGCCCTG AGCTGAGTAC TGGGAGTGGG ACTGTTTAA AGGCTGGAGT CCATGGAGTA GAACCTATAA
 TGTCTGGAA CAGTGGGTTT GGCAATGGCA AAAGTCACT CTCGCCGTT GACTTTAGA TCAGAAGGGA
 TCTTGCTGCC GCCGAAAGA GGAAGGGCTG GAAGAGGAAG GAGCTTGGCG TAATCATGGT CATAGCTGTT
 TCCTGTGTA AATTGTTATC CGCTCACAAT TCCACACAAC ATACGAGCCG GAAGCATAAA GTGTAAAGCC
 TGGGGTGCCT AATGAGTGAG CTAACTCACA TTAATTGCGT TGCCTACT GCCCCTTTC CAGTCGGGAA
 ACCTGTCTG CCAGCTGCAT TAATGAATCG GCCAACGCGC GGGGAGAGGC GGTTCGCTA TTGGGCGCTC
 TTCCGCTTC TCGCTACTG ACTCGCTGCG CTCGGTCTGT CGGCTGCGGC GAGCGTATC AGTCACTCA
 AAGGCGGTAA TACGGTTATC CACAGAATCA GGGGATAACG CAGGAAAGAA CATGTGAGCA AAAGGCCAGC
 AAAAGGCCAG GAACCGTAAA AAGGCCGCGT TGCTGGCGTT TTTCCATAGG CTCCGCCCC CTGACGAGCA
 TCACAAAAAT CGACGCTCAA GTCAGAGGTG GCGAAACCCG ACAGGACTAT AAAGATACCA GGCGTTTCCC
 CCTGGAAGCT CCCTCGTGCG CTCTCCTGTT CCGACCCTGC CGCTTACCG ATACCTGTCC GCCTTCTCC
 CTTCGGGAAG CGTGGCGCTT TCTCATAGCT CACGCTGTAG GTATCTCAGT TCGGTGTAGG TCGTTCGCTC
 CAAGCTGGGC TGTGTGCACG AACCCCGT TCAGCCCGAC CGCTGCGCT TATCCGTAA CTATCGTCTT
 GAGTCCAACC CGGTAAGACA CGACTTATCG CCACTGGCAG CAGCCACTGG TAACAGGATT AGCAGAGCGA
 GGTATGTAGG CGGTGCTACA GAGTCTTGA AGTGGTGGCC TAACTACGGC TACACTAGAA GAACAGTATT
 TGGTATCTGC GCTCTGCTGA AGCCAGTTAC CTTCGAAAA AGAGTTGGTA GCTCTTGATC CGGCAACAA
 ACCACCGCTG GTAGCGGTGG TTTTTTGTG TGCAAGCAGC AGATTACGCG CAGAAAAAA GGATCTCAAG
 AAGATCCTTT GATCTTTTCT ACGGGGTCTG ACCTCAGTG GAACGAAAAC TCACGTAAAG GGATTTTGGT
 CATGAGATTA TCAAAAAGGA TCTTACCTA GATCCTTTTA AATTAATAA GAAGTTTTAA ATCAATCTAA
 AGTATATATG AGTAAACTTG GTCTGACAGT TACCAATGCT TAATCAGTGA GGCACCTATC TCAGCGATCT
 GTCTATTTG TTCATCCATA GTTGCCTGAC TCCCGTCTG GTAGATAACT ACGATACGGG AGGGCTTACC
 ATCTGGCCCC AGTGTGCAA TGATACCGCG AGAACACGC TCACCGGCTC CAGATTTATC AGCAATAAAC
 CAGCCAGCCG GAAGGGCCGA GCGCAGAAGT GGTCTGCAA CTTTATCCGC CTCCATCCAG TCTATTAATT
 GTTGCCGGGA AGCTAGAGTA AGTAGTTCGC CAGTTAATAG TTTGCGCAAC GTTGTGCCA TTGCTACAGG
 CATCGTGTG TCACGCTCGT CGTTTGTGAT GGCTTATTC AGCTCCGTT CCCAACGATC

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:

