

a

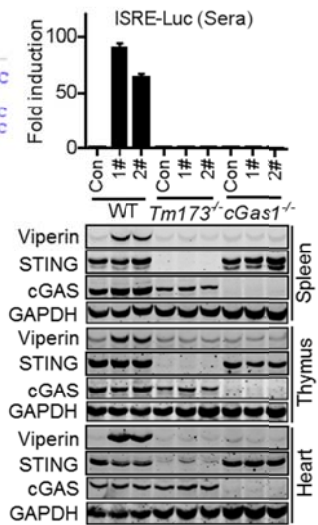
Cgas^{-/-}: 85bp deletion between gRNA1 and gRNA2.

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cGas-KO  CGTACGGGAGCCCCAGCCCC-----  
cGas-WT  CGTACGGGAGCCCCAGCCGCCGCGGATCCCGAGGCGCGGAAAGTCGTAAGGGGACC  
                                         AGGGTCCAGGAAGGAAC  
TAGCCACAGAAGGGGCGCGCTCCACC GGGCAGCCAGAGCGCCGAGGGTCCAGGAAGGAAC
```

Tmem173^{-/-}: 1bp deletion at gRNA1 and 1bp insertion at gRNA2 leading to premature stop codon between two gRNAs.

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Sting-WT  ACCTGCATCCAGCCATCCCACGGCCAGAGGTCACCCGTCCTCAAATATGTAGCCCTC  
Sting-KO  ACCTGCATCCAGCCATCCCACG-CCCAGAGGTCACCCGTCCTCAAATATGTAGCCCTC  
          TGAAGTACCTAGCACTTCACCTAGCCTCGCA-CGAACTTGGACTACTGTTG  
          TGAAGTACCTAGCACTTCACCTAGCCTCGCAACGAACTTGGACTACTGTTG
```

b



Supplementary Fig. 5 The cGAS-STING pathway is required for Mn²⁺-mediated antitumor immune responses. **a** Genotyping of gene-deficient mice in C57BL/6 background. **b** Type I IFN activity in the sera and ISG expression of the indicated organs in MnCl₂ treated (i.v.) WT mice and the indicated gene-deficient mice (n=3 per genotype) for 18 h. Data represent analyses of n mice per group, mean ± SEM.